

ore



UNDERGRADUATE BULLETIN

• •	
	SECTION 1
	About The University of Akron
	SECTION 2
	Student Affairs
	 Campus Safety and Security Information Cocurricular Activities
	SECTION 3
	Admissions
	Procedures and Requirements
	Frees and Expenses Financial Aid
	SECTION 4 65
	Undergraduate Academic Programs
	SECTION 5 165
	Minor Areas of Study
	SECTION 6
	 Interdisciplinary and Certificate Programs
	SECTION 7 199
	Research Centers and Institutes
	SECTION 8 203
	Courses of Instruction
	SECTION 9 275
	Directory
	SECTION 10 305
	• Index

Calendar 2001-2002

Fall Semester 2001

Fall 2001 fee payment due		Fri., Aug. 10
Application deadline for admission to Unive Community and Technical and Upper colleg	rsity, jes for Fall 2001	Fri., Aug. 10
Summer 2001 commencement		Sat., Aug. 18
Summer 2001 grades due	T	ues., Aug. 21
Sixty-Plus (60+) in-person Fall 2001 registra	tion ThurFri.,	August 23-24
Day and Evening Classes Begin	Ν	10n., Aug. 27
Last day to add courses for Fall 2001 without	t appropriate signatures F	n., August 31
*Labor Day (Day and Evening)	I	Mon., Sept. 3
Last day to withdraw from Fall 2001 withou instructor/adviser's signature	ut N	1on., Sept. 10
Spring graduation applications due	N	1on., Sept. 17
Freshmen midterm grades due		Tues., Oct. 9
Veteran's Day observed (staff holiday; class	es held)	Mon., Nov. 12
Last day to withdraw for Fall 2001		Fri., Nov. 16
**Thanksgiving Break	ThursSa	it., Nov. 22-24
Classes Resume	1	Mon., Nov. 26
Final Instructional Day		Sat., Dec. 8
Final Examination Period	MonSa	t., Dec. 10-15
Commencement		Sat., Dec. 15
Final Grades due	٢	lues., Dec. 18
Application deadline for admission to Unive Community and Technical and Upper colleg	ersity, ges for Spring 2001	Fn., Dec. 28
Spring Intersession	SatSat., Dec. 29, 2001 -	Jan. 12, 2002

Spring Semester 2002

Spring 2002 fee payment due	Thurs., Jan. 3
Sixty-Plus (60+) in-person Spring 2002 registration	ThursFri., Jan. 10-11
Day and Evening Classes Begin	Mon., Jan. 14
Last day to add courses for Spring 2002 without appropriate	signatures Fri., Jan. 18
*Martin Luther King Day	Mon., Jan. 21
Last day to withdraw from Spring 2002 without appropriate	signatures Mon., Jan. 28
Priority deadline for scholarship applications	Fri., Feb. 1
Summer graduation applications due	Fri., Feb. 15
*Presidents' Day	Tues., Feb. 19
Freshmen midterm grades due	Tues., Feb. 26
Priority deadline for federal aid applications	Fri., March 1
Spring Break	MonSat., March 25-30
Last day to withdraw for Spring 2002	Fri., April 12
Fee payment due for Summer Session I	Fri., April 26
Final Instructional Day	Sat., May 4
Final Examination Period	Mon.–Sat., May 6-11
Commencement	SatSun., May 11-12
Final grades due	Tues., May 14
Fall graduation applications due	Wed., May 15
Commencement for Law School	Sun., May 19

Summer Session I, II and III 2002

Day and evening classes begin for first 5-week session	Mon., May 13
Day and evening classes begin for first 10-week session	Mon., May 13
*Memorial Day	Mon., May 27
Summer II fee payment due	Fri., May 31
Final instruction day for first 5-week session	Sat., June 15
Day and evening classes begin for second 5-week session	Mon., June 17
Day and evening classes begin for second 10-week session	Mon., June 17
Summer III fee payment due	Wed., July 3
*Independence Day	Thurs., July 4
Final instruction day for first 10-week session	Sat., July 20
Final instruction day for second 5-week session	Sat., July 20
Day and evening classes begin for third 5-week session	Mon., July 22
Final instruction day for second 10-week session	Sat., Aug. 24
Final instruction day for third 5-week session	Sat., Aug. 24
Summer Commencement	Sat., Aug. 24

* Classes Canceled (day and evening)

** Classes canceled from Wednesday at 5 p.m. until Monday at 6:45 a.m.

University Closing Policy

The president, or designee, upon the recommendation of the Manager, Environmental Health and Occupational Safety, will determine when conditions – such as severe weather or a state of emergency – necessitate closing the entire University or canceling classes at the main campus and/or Wayne College in Orrville.

The Chief of Police will promptly notify other designated University officials and members of the Department of University Communications, who will contact area media. University colleges/departments are encouraged to establish a method for communicating the closing decision to department personnel. Closing information will be announced as early and as simply as possible to avoid confusion.

Cancellation of classes and closure announcements will be made as early as possible in the day and will clearly state the affected campus(es). Call 330-972-SNOW or 330-972-6238 (TDD/Voice) for updated information.

Important Phone Numbers

University Area Code (330) All phone numbers are subject to change without notice. For numbers not listed, call the University Switchboard 330-972-7111

General Campus Information Cente	r972-INFO (4636)
----------------------------------	------------------

Colleges

Buchtel College of Arts and Sciences	972-7880
Community and Technical College	972-7220
College of Business Administration	972-7040
College of Education	972-6970
College of Engineering	972-7816
College of Fine and Applied Arts	972-7564
College of Nursing	
College of Polymer Science and Polymer Engineering	972-7500
The University of Akron-Wayne College	1-800-221-8308
Northeastern Ohio Universities College of Medicine	
University College	

Other Offices

Academic Achievement Programs	
Educational Talent Search	
N.Y.S.P. (National Youth Sports Program)	
S.T.E.P. (Strive Toward Excellence Program)	
Upward Bound Program	
Upward Bound Math and Science Program	
Academic Advisement Center	
Accessibility, Office of	972-7928
TTY/TDD	972-5764
Admissions, Office of	972-7100 or 972-7077
Toll-Free (Ohio only)	1-800-655-4884
Application Status Inquiries	
Freshmen	
A-D	
E-K	
L-R	
5-2 Transfer 072-6/18	972-6419 or 972-7568
	072-0413 01 372-7500
Associated Student Government	
Athletics, Director	
Buchtelite, The (student newspaper)	
Campus Diversity, Office of	
Academic Support Services	
Access and Retention	972-6769
Center for Career Management	972-7747
Center for Child Development	
Counseling, Testing, and Career Center	
Counseling Services	
Testing Services	
Developmental Programs	
Math Lab (CH208)	
Reading Lab and Study Skills Center (CH217)	
Iutorial Programs	
Vvriting Lab (CH212)	
English Language Institute	

Financial Aid, Office of Student	972-7032
Scholarships (non-University)	
Scholarships (University)	
Student Volunteer Program	
Work Study	
Gardner Student Center, Director's Office	
Gardner Student Center, Information Center	.972-INFO (4636)
Graduate School	
Greek Affairs	
Health Services, Student	
Information Centers	
Gardner Student Center	.972-INFO (4636)
Polsky's High Street Info Center	
Honors Program	972-7966
International Programs	972-6349
Academic Advising	
Immigration	
International Admissions	
Intramural Sports	
Libraries, University	
Bierce Library	236 or 972-7497
Law Library	
Science and Technology Library	972-0278
University Archives	
New Student Orientation	
Pan-African Culture and Research Center	
Parking Services	972-7213
Peer Counseling Program	
Photocopying	
DocuZip (Gardner Student Center)	972-7870
Polsky Building	
Registrar, Office of the University	
Graduation Office	
Records and Transcripts	
Residence Life and Housing	
S. I.E.P. (Strive Toward Excellence Program)	
Student Affairs, V.P. FOR	
Assistant V.P. and Deal of Students	
Associate V.P. for Student and Enrollment Services	
Student Conduct	
Student Development, Office of	
Study Abroad	
Ticketmaster	
Tours (of the University)	972-7077
University Program Board	972-7014
Veterane Affaire Coordinator and Counselor	072-7014
WORK STUDY	
	972-7105

Emergency Phone Numbers

Police/Fire/EMS	
Police (non-emergency)	
Campus Patrol	
University Switchboard	
Closing Information	

Inquiries

Address inquiries concerning:

Admissions information, campus tours, housing, and transfer of credits to the Office of Admissions, The University of Akron, Akron, OH, 44325-2001. 330-972-7077, or toll-free, (800) 655-4884.

Financial aid, scholarships, loans, and student employment to the Office of Student Financial Aid, The University of Akron, Akron, OH 44325-6211. 330-972-7032. Toll free 1-800-621-3847. Fax 330-972-7139.

Athletics to the Athletic Director, The University of Akron, Akron, OH,44325-5201. 330-972-7080.

Registration, scheduling, residency requirements, and veteran's affairs to the Office of the Registrar, The University of Akron, Akron, OH 44325-6208. 330-972-8300.

Graduate study to the Graduate School, The University of Akron, Akron, OH 44325-2101. 330-972-7663.

The University switchboard number is 330-972-7111.

Disclaimer

While every effort is made to provide accurate and up-to-date information, the University reserves the right to change, without notice, statements in the Bulletin series which include, but are not limited to rules, policies, procedures, fees, curricula, courses, programs, activities, services, schedules, course availability, or other matters. For example, programs may be modified due to limited resources or facilities, unavailability of faculty, insufficient enrollment, or other such reasons as the University deems necessary.

Please note that editions of this Undergraduate Bulletin prior to 1994-95 were titled the "General Bulletin."

THE UNIVERSITY OF AKRON IS AN EQUAL EDUCATION AND EMPLOYMENT INSTITUTION

... operating under non-discrimination provisions of Titles VI, VII, of the Civil Rights Act of 1964 as amended and Title IX of the Educational Amendments of 1972 as amended, Executive Order 11246, Vocational Rehabilitation Act Section 504, Vietnam Era Veterans' Readijustment Act, and Americans with Disabilities Act of 1990 as related to admissions, treatment of students, and employment practices.

It is the policy of this institution that there shall be no discrimination against any individual at The University of Akron because of age, color, creed, disability, national origin, race, religion, veteran status, or sex. The University of Akron prohibits sexual harassment of any form in its programs and activities and prohibits discrimination on the basis of sexual orientation in employment and admissions.

Complaint of possible discrimination, including sexual harassment, should be referred to:

Equal Employment Opportunity and Training Office

277 S. Broedway, 2rd Floor The University of Akron Akron, OH 44325-4709 330-972-7300

Information on Title IX (sex discrimination) may be obtained from: Title IX Coordinator 330-972-7300

The Undergraduate Bulletin is published once each year by Office of the Vice President for Student Affairs, Buchtel Hall 51

The University of Akron Undergraduate Bulletin (USPS 620-400)

August 2001

Vol. XXXIX

POSTMASTER:

Send address changes to The University of Akron Undergraduate Bulletin, Office of Admissions, The University of Akron, OH 44325-2001





About The University of Akron

Background

HISTORY

The connection between The University of Akron and its surrounding community has been a recurring theme in its history. The institution was founded as a small denominational college in 1870 and has grown to its current standing as a major, metropolitan, state-assisted university. It is significant that the efforts, energy, and financial support of an Akron manufacturer of farm equipment, John R. Buchtel, were instrumental in persuading the Ohio Universalist Convention to build its college on a hill overlooking the town that stretched along the Ohio Canal. The grateful trustees responded by naming the school Buchtel College. It is also significant that during its first four decades, the struggling institution was repeatedly aided in its efforts to survive by various local entrepreneurs who pioneered and prospered in such industries as cereals, clay products, matches, and rubber. Buchtel College's emphasis on local rather than denominational interests became increasingly clear, and by 1913 those strong ties and the school's financial situation caused its trustees to transfer the institution and its assets to the city. For the next 50 years, The Municipal University of Akron received its principal support from city tax funds and swelled from an enrollment of 198 to nearly 10,000.

The growth of the college paralleled the remarkable expansion of the community itself. From 1910 to 1920, Akron was the fastest-growing city in the country, evolving from a thriving canal town of 70,000 to a major manufacturing center of 208,000, thanks in large part to a boom in local factories that bore names such as Goodyear, Firestone, Goodrich, and others. The age of the automobile — and the demand for inflatable rubber tires — changed the complexion of Akron forever.

Changes within the Municipal University's curriculum reflected the strong interrelationship of town and gown. In 1914 a College of Engineering began instruction, and other professional schools followed: Education (1921), Business Administration (1953), Law (1959), the Community and Technical College (1964), Fine and Applied Arts (1967), and Nursing (1967).

Considering the institution's location in the heart of a burgeoning rubber industry, it seemed only appropriate that the world's first courses in rubber chemistry would be offered at Buchtel College, in 1909. From those first classes in Professor Charles W. Knight's laboratory would evolve the world's first College of Polymer Science and Polymer Engineering (1988), now the largest academic polymer program in the world. During World War II, University of Akron researchers helped fill a critical need in the U.S. war effort by contributing to the development of synthetic rubber. The University's polymer programs have produced some of the world's most able scientists and engineers, and today attract millions of dollars annually in research support, as well as top graduate students from around the world.

Research, innovation, and creativity actively take many forms at the University in the sciences, and in the arts and humanities. Today, University faculty study ways of matching workers with jobs to maximize performance; develop new ways to synthesize fuel; write and produce plays, pen poetry, choreograph dance works; explore improved methods of tumor detection; evaluate water quality in northeast Ohio; provide speech and hearing therapy to hundreds of clients; aid the free enterprise system by sharing the latest in business practices with new and established companies alike; provide health care in community clinics; and study political campaign financing and reform. Faculty are awarded patents each year for their work on new technologies and products. The University of Akron's continuing and central commitment to the liberal arts is signified by the perpetuation of the institution's original name in the Buchtel College of Arts and Sciences.

The University has a long tradition of serving the needs of part-time and full-time students through day and evening classes, and it attracts traditional and non-traditional students of all economic, social, and ethnic backgrounds. Committed to a diverse campus population, the University is at the forefront of all Ohio universities in recruiting and retaining minority students.

The University's first doctoral degree was, appropriately enough, awarded in polymer chemistry in 1959, but master's degrees were granted as early as 1882. The University of Akron now offers 17 doctoral degree programs and four law degree programs as well as more than 100 master's degree programs and options. The University offers undergraduate students a choice of more than 200 majors and areas of study leading to associate and bachelor's degrees. Hundreds of noncredit continuing education courses, certificate programs and specialized training opportunities are available for individuals and organizations.

In 1963 the receipt of state tax monies made the University a state-assisted municipal university, and on July 1, 1967, The University of Akron officially became a state university. Today, more than 23,300 students from 40 states and 70 foreign countries are enrolled in its 10 degree-granting units. The University of Akron is the only Ohio institution, public or private, with a science and engineering program ranked in the top five nationally. Its College of Polymer Science and Polymer Engineering also is the nation's largest academic polymer program. The University excels in many other areas, including global business, biomedical engineering, organizational psychology, educational technology, marketing, dance, intellectual property law and nursing. Alumni of the University number more than 115,000 and include scientists, engineers, artists, lawyers, educators, nurses, writers, business people, and other professionals at work in every state and 84 foreign countries.

The 170-acre Akron campus, with 70 buildings, is within walking distance of downtown Akron and is located in a metropolitan area of 2.8 million people. The University's presence in northeast Ohio provides numerous opportunities in recreation, major collegiate, amateur, and professional sports, concerts, cultural events, and commerce, all within easy driving distance and many accessible via public transportation. Located on campus, the Ohio Ballet, Emily Davis Art Gallery, University Orchestra, Opera/Musical Theatre, concerts, recitals, choral programs, Touring Arts Program, University Theatre, Repertory Dance Company, and professional artists performing at E.J. Thomas Performing Arts Hall contribute to the University's rich cultural environment. The University joined the Mid-American Conference in 1991 and participates on the NCAA Division I level in 18 sports. (Women's soccer begins Fall 2001.)

The University of Akron campus, already one of the most modern in Ohio, has embarked on an ambitious venture to create "a new landscape for learning." With a \$200 million investment, six new buildings and major expansions or renovations of 14 other structures will be completed during the next five years. Among the new buildings will be a Student Recreation and Wellness Center and a Student Union. The campus will have 30 additional acres of green space as well.

For 130 years, The University of Akron has been an active participant in Akron's renaissance of commercial and artistic endeavor, a leader in the metropolitan area's intellectual and professional advancement, a center for internationally lauded research efforts and a source of enrichment, education, and vitality for northeast Ohio. Our history is a long and proud one — yet at The University of Akron our eyes are on the future, for our students, our faculty and staff, our community, and our world.

MISSION STATEMENT

The University of Akron, a publicly assisted metropolitan institution, strives to develop enlightened members of society. It offers comprehensive programs of instruction from associate through doctoral levels; pursues a vigorous agenda of research in the arts, sciences and professions; and provides service to the community. The University pursues excellence in undergraduate and graduate education, and distinction in selected areas of graduate instruction, inquiry, and creative activity.

CHARTING THE COURSE

Today, the University stands on the threshold of a fundamental shift in thinking and a sweeping recommitment of institutional talents, energies and resources toward attaining even greater excellence. The blueprint for change is "Charting the Course," an ongoing and dynamic process of strategic thinking that begins with the University's fundamental strategies and builds to where the institution envisions itself in the future.

Objective and documented excellence tells us that The University of Akron is already the leading public university in northern Ohio and signals a clear promise and destiny. We have framed our vision as a Statement of Strategic Intent:

> The University of Akron intends to be recognized as the public research university for Northern Ohio.

That recognition will be gained by building upon the documented excellence that has enabled the University to achieve its current high level of achievement, and by strategic investments, partnerships and initiatives.

The University will continue to build a leadership position in information technology – to better prepare our students for today's technologically advanced knowledge economy, to make learning more accessible and dynamic, and to increase the effectiveness of the University's planning and operations.

We will attain technological and programmatic excellence throughout the University by taking full advantage of our metropolitan setting and long-standing relationships with area business and industry. We will act decisively to form and optimize strategic partnerships that will benefit our students and our community.

Enabling student success will continue to be the hallmark of The University of Akron. We recognize, importantly, that students are the responsibility of all of us at the University. We will work to strategically shape and determine the quality, diversity and size of our student body. And, we will strive to offer students the chance to apply what they are learning in the classroom through hands-on research, service, internships, cooperative education or similar opportunities.

Student success is our number one priority.

A CIVIL CLIMATE FOR LEARNING: STATEMENT OF EXPECTATIONS

The University of Akron is an educational community of diverse peoples, processes, and programs. While all of us have our individual backgrounds, outbooks, values, and styles, we all share certain principles of personal responsibility, mutual respect, and common decency. Our campus culture requires that we maintain and extend those principles, for without them we cannot thrive as a humane and worthwhile university. To keep ourselves aware of these shared principles, this statement articulates some of the expectations and responsibilities of a civil climate for learning on our campus.

Principles of Our Campus Culture

Our campus culture acknowledges the importance of all in our community for their participation in our common enterprise as a university. We value the contributions and we respect the needs of students, faculty, contract professionals, staff, administrators, maintenance and service personnel, and everyone else whose work and dedication enables us to pursue our individual and collective academic goals.

Together we maintain an **intellectual culture** that is accessible, disciplined, free, safe, and committed to excellence.

By our behavior with one another we endorse a **culture of diversity**, celebrating the uniqueness of the individual and developing our understanding and tolerance of differences in gender, ethnicity, age, spiritual belief, sexual orientation, and physical or mental potential.

We take responsibility for sustaining a **caring culture**, nurturing growth and fulfillment in one another and in the larger communities of which we are a part.

We insist on a **culture of civility**, united in our rejection of violence, coercion, deceit, or terrorism. We work to increase collaboration, cooperation, and consensus within rational dialogue characterized by mutual respect and consideration.

Ours is a **responsible culture**. We expect each member of our community to carry out responsibly his or her duties for preserving the integrity, quality, and decency of our environment and our discourse.

Expectations and Responsibilities

To preserve and propagate the Culture of The University of Akron, everyone must engage in certain specific behaviors. Anyone new to this campus must be aware of the expectations we have of each other and be committed to fulfilling his/her responsibility in maintaining our culture.

Inside the classroom

Inside the classroom, **faculty** are expected to respect the sanctity of the teaching/learning process by honoring their commitment to students in terms of time, fairness, and enthusiasm. It is the responsibility of faculty to set and enforce the classroom rules of conduct. Faculty members are expected to treat men and women, persons of all colors and ethnicities, and persons with varying abilities, printual preference, or sexual orientation with equitable respect and consideration. Faculty should value and pursue excellence in teaching as well as research. Faculty shall not engage in sexual or other forms of harassment or engage in inappropriate dual relationships with students. Faculty must not tolerate academic dishonesty nor discrimination or harassment from students to other students.

Students are expected to respect the sanctity of the teaching/earning process by expressing respect for the faculty member as the organizer and guide through this learning experience, as well as for fellow students. Disruptive, disrespectful, discriminatory, harassing, violent and/or threatening behavior is explicitly prohibited. Academic dishonesty will not be tolerated. Students are expected to to take responsibility for their own learning and, in return, can expect responsible teaching from the faculty member. Students should report unprofessional behavior on the part of faculty members. Students have a right to expect that they will not be sexually or otherwise harassed, intimidated, or threatened.

On the campus

On the campus, everyone is expected to respect and protect the dignity and freedom of each other. There must be the opportunity for expression of all points of view, free from name-calling or ridicule. All members of the University family are expected to be civil and tolerant of others. It is the responsibility of each member of the University community to express dissatisfaction with anyone who fails to meet the responsibility of civility and to request that they do so. In the event that cooperation can not be attained, proper authorities must be involved to insist upon these minimum expectations. Only by campus-wide compliance to these expectations can we achieve a clear sense of our campus culture and, accordingly, a sense of mutual pride.

Students can expect that all representatives of all departmental and administrative offices will treat them with respect, a sense of cooperation and with concern for their welfare. Students can also expect appropriate coordination of services among departments.

Everyone is expected to respect the campus environment by behaving in ways that protect the safety, order, and appearance of all campus facilities. Each person must take steps to preserve the ecological and aesthetic aspects of the campus.

Additional Behavioral Expectations

All members of the University community are required to abide by all laws and regulations of The University of Akron, the City of Akron, the State of Ohio, and the Federal Government. Students are expected to abide by the Student Code of Conduct and the University Disciplinary Procedures. Faculty, contract professionals, administrators, and staff are expected to abide by all University regulations and procedures.

ACCREDITATION

Accreditation assures that degrees are recognized and approved by select regional and national education associations, societies and councils. Accreditation serve two fundamental purposes: quality assurance and institutional and program improvement.

There are two types of accreditation of educational institutions: institutional accreditation and specialized accreditation. Institutional accreditation evaluates the entire institution and accredits it as a whole. The University of Akron has been approved by The Higher Learning Commission of The North Central Association of Colleges and Schools (30 North La Salle Street, Suite 2400 Chicago, IL 60602 (800) 621-7440) since 1914 and has been reaccredite ed at the highest level as a comprehensive doctoral degree-granting institution.

Institutional accreditation is separate from the accreditation given by professional associations or organizations. Specialized accreditation evaluates particular units, schools or programs within an institution and is often associated with national professional associations or with specific disciplines.

Accreditation provides the security of knowing that the University will honor most credits earned at a similarly accredited college or university. Degrees earned at the University are respected and sought after by prospective employers.

Institutional Accreditation:

The Higher Learning Commission of The North Central Association of Colleges and Schools

Specialized Accreditations:

AACSB-The International Association for Management Education Accreditation Board for Engineering and Technology American Association of Nurse Anesthesia America Association for Family and Consumer Science American Chemical Society American Dietetic Association American Psychological Association American Speech-Language-Hearing Association Association of Collegiate Business Schools and Programs Committee on Allied Health Education and Accreditation of American Medical Association Council for the Accreditation of Counseling and Related Educational Programs (provisional) Council on Social Work Education Foundation for Interior Design Education Research International Association of Counseling Services National Association of Education for Young Children National Accrediting Agency for Clinical Laboratory Sciences National Association of Schools of Art and Design National Association of Schools of Dance National Association of Schools of Music National Council for Accreditation of Teacher Education National League of Nursing Accrediting Commission North Central Association for Teacher Education Ohio Board of Nursina Ohio Department of Health Ohio State Department of Public Instruction The School of Law is accredited by or holds membership in the following: America Bar Association Association of American Law Schools League of Ohio Law Schools Council of the North Carolina State Bar State of New York Court of Appeals The University also holds membership in the following educational organizations: American Association of Colleges for Teacher Education American Association of Community Colleges American Association of State Colleges and Universities American Council on Education American Society for Engineering Education American Society for Training and Development Council of Graduate Schools Department of Baccalaureate and Higher Degree Programs (National League for Nursing) International Council on Education for Teaching (associate) Midwestern Association of Graduate Schools

National Association of Graduate Admission Professionals

National Association of State Universities and Land-Grand Universities

North American Association of Summer Sessions

Ohio College Association

Ohio Continuing Higher Education Association United States Association of Evening Students

University Council on Education for Public Responsibility

University Continuing Education Association

The American Association of University Women grants membership to women graduates with approved baccalaureate degrees from The University of Akron.

Academics

The University of Akron offers comprehensive programs of instruction leading to the associate (two-year), bachelor's (four-year), master's (graduate), and doctoral (graduate or professional) degrees. A student may study in the College of Business Administration, Buchtel College of Arts and Sciences, Community and Technical College, College of Education, College of Engineering, College of Fine and Applied Arts, University College, School of Law, College of Nursing, and College of Polymer Science and Polymer Engineering.

GRADUATE SCHOOL

The Graduate School offers advanced study to students who wish further education beyond the baccalaureate degree with programs leading to the master's degree as well as the doctoral degree.

A separate publication detailing admission procedures and individual study requirements for graduate work is available from the Graduate School. The *Graduate Bulletin* may be obtained by calling the Graduate School at 330-972-7663 or writing:

Graduate School The University of Akron Polsky Building, Room 469 Akron, OH 44325-2101

Graduate degree programs are listed below. A dagger (1) indicates programs that offer doctorates only; an asterisk (*) signifies programs that offer both master's and doctoral degrees; the remaining disciplines offer master's degrees only.

You may contact the Graduate School via e-mail at gradschool@uakron.edu or visit the World Wide Web site at http://www.uakron.edu/gradsch/ for more information.

Accountancy Biology Biomedical Engineering* **Business Administration** Business Administration/Law Joint Program Finance International Business Management Law/MBA Joint Program Marketing Health Services Administration Materials Management Quality Management Chemical Engineering* Chemistry* Civil Engineering* Communication Counseling Psychology* Economics Labor and Industrial Relations Educational Administration* Administrative Specialists Educational Research Educational Staff Personnel Administration Instructional Services Pupil Personnel Administration School-Community Relations Higher Education Administration Principalship Superintendent Educational Foundations Computer-Based Education Educational Psychology Historical Foundations Instructional Technology Social/Philosophical Foundations Electrical Engineering* Elementary Education* Engineering*

Applied Mathematics[†] English Composition Family and Consumer Sciences Child Development Child Life Clothing, Textiles and Interiors Family Development Food Science Geography Urban Planning Geology Earth Science Engineering Geology Environmental Geology Geophysics Guidance and Counseling* Classroom Guidance for Teachers Clinical Mental Health Counseling[†] Community Counseling Counselor Education¹ Elementary Counseling Marriage and Family Therapy* Secondary Counseling History* Management Human Resources Information Systems Law/MSM-HR Joint Program Mathematics and Computer Sciences Applied Mathematics* Computer Science Mathematics Mechanical Engineering* Modern Languages Spanish Music Accompanying Composition Education

History /Literature

Music Technology Performance Theory Nursina Nursing (RN/MSN) Nutrition/Dietetics Outdoor Education Physical Education Exercise Physiology and Adult Fitness Sport Science and Coaching Physics Political Science Polymer Engineering* Polymer Science* Psychology* Applied Cognitive Aging* Counseling Industrial/Gerontological* Industrial/Organizational* Public Administration and Urban Studies

Law/Public Administration Joint Program Public Administration Urban Studies Urban Studies and Public Affairs^{†1} Secondary Education[†] Sociology* Special Education Speech-Language Pathology and Audiology Audiology Speech-Language Pathology Statistics Taxation Law/Taxation Joint Program Technical Education Guidance Instructional Technology Teaching Training Theatre Arts Arts Administration

The following graduate certificate programs are also available:

Addiction Counseling Advanced Role Preparation in Nursing Education Applied Politics Case Management for Children and Families Composition Divorce Mediation Gerontology Higher Education Home-Based Intervention Therapy Management of Technology Mid-Careers Program in Urban Studies Motion and Control Specialization¹ Parent and Family Education Post-Master's Acute Care Nurse Practitioner Post-MSN Behavioral Health Nurse Practitioner Post-MSN Child and Adolescent Health Nurse Practitioner Postsecondary Teaching Public Policy Teaching English as a Second Language Technical and Skills Training

SCHOOL OF LAW

The School of Law provides legal education through day and evening classes leading to the Juris Doctor degree. An applicant must take the Law School Admission Test and have a baccalaureate degree from an accredited college or university. No particular course of undergraduate study is required for admission.

A separate publication detailing admission requirements and the procedure for applying may be obtained by calling 330-972-7331, or (800) 4-AKRON-U, or by e-mail: *lawadmissions@uakron.edu*.

Visit The University of Akron School of Law's home page on the World Wide Web at http://www.uakron.edu/law/for more information.

Or you may write to:

Director of Admissions School of Law The University of Akron Akron, OH 44325-2901

Law degree programs are listed below:

Juris Doctor

- Juris Doctor/Master in Business Administration
- Juris Doctor/Master of Science in Management Human Resouce Management Juris Doctor/Master in Taxation

Juris Doctor/Master in Public Administration

¹ Pending UA approval.

BACCALAUREATE PROGRAMS

The University of Akron believes that the student should master basic courses in the humanities, social sciences, and physical sciences before proceeding to advanced work in the major. The University College concept guarantees this mastery. A student seeking a baccalaureate degree and having attained less than 30 college semester credits studies in the University College before transferring to a degree-granting college. Study in the University College develops students' abilities to understand and express ideas effectively and to comprehend the processes involved in accurate thinking. After completing the general studies phase, students are admitted to a degree-granting college, where they then concentrate on courses in their specific academic interests. Baccalaureate programs are offered in:

Accountancy Accounting Information Systems Professional Accounting Advertisina E-Marketing and Advertising Anthropology (Interdisciplinary Program) Applied Mathematics Art Ceramics Drawing Graphic Design Metalsmithing Painting Photography Printmaking Sculpture Studio Art Art History Automated Manufacturing Engineering Technology Automated Manufacturing Engineering Technology (Step-Up) Biology Animal Physiology Botany Ecology/Evolution Microbiology Zoology **Biomedical Engineering** Biomechanics Track Instrumentation, Signals and Imaging Track **Business Administration** Chemical Engineering Polymer Engineering Specialization Biotechnology Specialization Chemistry Polymer Option Civil Engineering Classical Studies Classical Languages Classical Civilization Communication Business and Organizational: Organizational Public Relations Interpersonal and Public Mass Media: Media Production News Radio & TV Computer Engineering Computer Science Construction Engineering Technology Cytotechnology Dance Dietetics Economics Labor Economics Education Adolescent to Young Adult Integrated Language Arts Integrated Mathematics Integrated Science Integrated Social Studies Dual Science Fields Life Science and Chemistry

Life Science and Earth Science Life Science and Physics Earth Science and Chemistry Earth Science and Physics Physical Science (Chemistry & Physics) Early Childhood Education Intervention Specialist Early Childhood Mild/Moderate Moderate/Intensive Middle Childhood Reading & Language Mathematics Science Social Studies Multi-Age Athletic Training for Sports Medicine Community Health Dance Drama/Theatre Foreign Languages French German Latin Spanish Health Education Music Physical Education Sport & Exercise Science Visual Arts Technical Education Vocational Education Integrated Business Family & Consumer Sciences Electrical Engineering Electronic Engineering Technology Emergency Management Engineering English Family and Consumer Sciences Dietetics Coordinated Program Dietetics Didactic Program Family and Child Development Child Development Child Development: Prekindergarten Certification ChildLife Specialist Family Development Family and Consumer Sciences Teacher Education Food Science Business Food Science/Product Development Fashion Merchandising Annarel Track Home Furnishings Track Fiber Arts Track Interior Design Finance Corporate Financial Management Financial Services French Geography and Planning Geography/Cartography Geology Engineering Geology

Geophysics

History Humanities Interdisciplinary Studies Interior Design International Business Management E-Business Technologies Human Resource Management Industrial Accounting Information Systems Management Materials Management Production/Operations Management Marketing Marketing Management Sales Management Mathematics Mechanical Engineering Polymer Engineering Specialization Mechanical Polymer Engineering Mechanical Engineering Technology Medical Technology Music Accompanying History and Literature Jazz Studies Music Education Performance

Composition

Natural Sciences Combined B.S./M.D. Nursing Philosophy **Physics** Political Science American Politics Criminal Justice International Politics Public Policy Management Psychology Social Sciences Social Sciences PPE Track Social Work Sociology Corrections Law Enforcement Spanish Speech-Language Pathology and Audiology Statistics Statistical Computer Science Actuarial Sciences Surveying and Mapping Theatre Theatre Arts Musical Theatre

ASSOCIATE PROGRAMS

Our fast-paced age of technological development needs persons specifically trained for work in the semiprofessional, technical, and highly skilled professions. Most critically needed are laboratory technicians, health technicians, engineering assistants, sales people, supervisors, secretaries, and management assistants. The following is a list of associate degree programs:

Note: The Step-Up programs are cooperative courses of study that allow students to complete a specific associate degree program followed by a related upper college course of study that results in the baccalaureate degree. All associate degree programs of technology are "step-up's" with the School of Communications in the College of Fine and Applied Arts and withe the College of Education's Technical Education Program. The Community and Technical College does not guarantee that courses successfully completed within the College will transfer to colleges on this or any other campus. Acceptance of all transfer courses is determined by each individual college or school. Colleges also determine what the overall grade point average is prior to acceptance to their college. See your academic advisor for these requirements.

American Sign Language Interpreting and Transliterating Technology Associate of Arts Business Management Technology Accounting General Small Business Management Community Services Technology Addiction Services Gerontology Social Services Criminal Justice Technology (Step-Up) Corrections Emphasis Security Administration Computer Information Systems (Step-Up) Programming Specialist Programming Specialist/Pre-Business Microcomputer Specialist Microcomputer Specialist/Pre-Business Drafting and Computer Drafting Technology Early Childhood Development Electronic Service Technology (Wayne) Electromechanical Service Technology Electronic Engineering Technology (Step-Up) Fire Protection Technology Hospitality Management (Step-Up) Culinary Arts Hotel/Motel Management Hotel Marketing and Sales Restaurant Management

Individualized Study Legal Assisting Technology Manufacturing Engineering Technology (Step-Up) Computer Aided Manufacturing Industrial Supervision Marketing and Sales Technology (Step-Up) Advertising Fashion Retailing Sales Mechanical Engineering Technology (Step-Up) Medical Assisting Technology Office Administration Administrative Assistant International Secretarial Medical Secretarial Office Services Technology Polymer Technology Radiologic Technology Real Estate (Inactive) Respiratory Care Surgical Assisting Technology Surgical Technologist Surveying and Construction Engineering (Step-Up) Technology Construction Surveying Technical Study - Automotive Technology Transportation continued ... Wayne College Programs Associate of Arts Associate of Science Associate of Technical Studies Associate of Applied Business Business Management Technology Accounting Data Management: Software Data Management: Networking General Business Health Care Office Management Office Administration Executive Assistant Legal Administrative Assistant Health Care Administrative Assistant Associate of Applied Science Computer Service and Network Technology Environmental Health and Safety Technology Social Services Technology (Step-Up)

CERTIFICATE PROGRAMS

Students may add a dimension of depth to their education beyond a chosen major by pursuing one of the University's interdisciplinary or interdepartmental programs, which provide concentrated work in the following areas.

Accounting Technology

Addiction Services Aging Services Applied Politics **Biotechnology Specialization** Business Management Technology Canadian Studies Cartographic Specialization Child-Care Worker Computer Information Systems Computer Physics Computer Science **Conflict Management** Construction Engineering Technology Criminal Justice/Advanced Officers Training Criminal Justice/Corrections Criminal Justice/General Criminal Justice/Security Digital Electronics and Microprocessors Drafting and Computer Drafting Technology Emergency Management Entrepreneurship Environmental Studies Financial Planning Fire Protection Technology Geographic and Land Information Systems Gerontology **Global Selling** Home-Based Intervention Hospitality Management: Culinary Arts Hotel/Motel **Bestaurant Management** Interior Design International Business International Development Latin American Studies Legal Assisting Linguistic Studies Manual Communication

Marketing and Sales Technology Motion and Control Specialization Office Administration: General Office Assistant Medical Front Office Medical Transcriptionist Office Software Specialist Office Supervision Pan-African Studies Parent and Family Education Piano Pedagogy Planning with an emphasis on City or **Regional Resource Studies** Polymer Engineering Specialization Post Secondary Teaching Professional Communication Professional Selling Real Estate Residential Building Technology Retail Marketing Russian Area Studies Small Business Management Supervision and Management Surveying Technology Teaching English as a Second Language Technical Skills and Training Transportation Studies Women's Studies

Wayne College Certificate Programs

Gerontological Social Services Information Processing Specialist Legal Office Assistant Medical Billing Medical Transcription Network Management Specialist Office Software Specialist Personal Computer Repair Therapeutic Activities

UNIVERSITY HONORS PROGRAM

The University's Honors Program provides scholarships, curriculum options, special housing, and other advantages to especially motivated and high-achieving undergraduates who meet the program's admission requirements. The Honors Program student completes a major in one of the bachelor's degree granting colleges, selects a set of Honors Distribution Requirement courses in place of the University's General Education Program, participates in a series of Honors Seminars (Colloquia), and creates a Senior Honors Project. The successful Honors Program student is recognized at graduation with an honors degree and the designation of University Scholar.

INTERNATIONAL EDUCATION: Study, Work, Travel Abroad

International experience and global awareness are critical to the university graduate entering today's workforce. In addition to enhancing the student's academic background, studying abroad is an excellent way to develop academic and professional skills that will enable the student to gain a competitive edge in today's job market. Among other abilities, the international student develops critical thinking, decisionmaking and language skills; increases inter-cultural, political, and economic understanding; and enhances self-esteem. The University of Akron has Study Abroad affiliations with universities in Australia, Canada, China, Denmark, France, Germany, Ghana, Israel, Japan, Korea, Mexico, The Netherlands, Peru, Puerto Rico, Russia, Singapore and the United Kingdom. Programs are opened to all students regardless of major, language training or financial means. Study Abroad may be undertaken for an academic year or a semester, depending upon the host institution.

Short-term study abroad programs are also available. Among these are departmental programs such as "Field Marine Phycology," in the Bahamas (Biology), "Public Relations in London," London, England, with a day in Stratford (School of Communication), "International Business Study Tour," with possible visits to England, France, Switzerland, Italy, Austria and Germany (College of Business Administration), "Summer Program in the Alps," Faverges, France, with field trips to Paris, Geneva and Chamonix (Modern Languages), "An Educational Tour of Ghana, West Africa," Ghana, (Institute for Global Business), "Tropical Field Biology," Jamaica, near Montego Bay (Biology), "Sociology of the Third World: Experience Nepal," Katmandu and the Himalayan Mountains, Nepal (Anthropology), "Three-Week China/Korea Study Tour," with visits to the People's Republic of China and South Korea (Office of International Programs).

Students receive elective credit towards graduation for all courses. Some courses may be applicable to the University's language and General Education requirements, with prior permission. Credits toward a major, minor, or certificate may be completed abroad with the consent of the student's College.

Students may use their financial aid in all University Study Abroad programs. The programs are affordable, and some programs are at or below the average residential cost of attending The University of Akron. Details on nationally competitive scholarship awards; study, work, volunteer, and travel abroad literature; and international career information are available in the Study Abroad Library in the Office of International Programs. International internships are available and are designed to provide an educational work experience to students who want to enhance academic and career preparations.

For study or research after graduation, a student should inquire about scholarship programs abroad late in his/her junior year. The Office of International Programs houses information on the Freeman/Asia, Fulbright, Gilman, Marshall, National Science Foundation, National Security Education Program (NSEP), Rhodes, and Truman scholarships/fellowships, as well as other grant opportunities.

The International Student Identity Card (ISIC) and International Teacher Identity Card (ITIC) are available for purchase in the Office of International Programs. These cards are globally recognized and provide discounts for students and faculty on airlines, museums, car rentals, hotels, and international telephone calls. Some insurance and a 24-hour, toll-free help line providing medical, financial, or legal emergency assistance worldwide are also included.

For further information, visit the Office of International Programs or call 330-972-6349 to make an appointment for a personal planning session. This OIP is located in The Polsky Building, Room 483.

Official ISIC Issuing Office

WAYNE COLLEGE

To meet the needs of citizens in Wayne, Holmes, and Medina counties, The University of Akron - Wayne College opened its doors in 1972. Wayne College offers nine technical programs as well as the first 64 credits of many baccalaureate programs. The following degrees are available from The University of Akron - Wayne College: Associate of Arts; Associate of Science; Associate of Technical Studies; Associate of Applied Business in Business Management Technology, Health Care Office Management and Office Administration; Associate of Applied Science in Environmental Health and Safety Technology, Computer Service and Network Technology, and Social Services Technology. Please refer to Section 4 in this Bulletin for more information about Wayne College programs.

OFF-CAMPUS PROGRAMS

As an urban institution of higher learning, the University clearly identifies and supports its public service role through a variety of off-campus programs. Continuing Education and Evening Division offers special institutes, workshops, and course professional groups through the academic departments, through credit and noncredit continuing education, and through Developmental Programs.

The University also operates educational centers at the following locations:

Medina Professional Development Center

The University of Akron Medina Professional Development Center opened in October 1998 to service the Medina County area. The Center, offering credit and noncredit courses year round, is equipped with the latest technology, including a distance learning room and computer laboratory. More information is available by calling the Center at 330-764-4940.

University Partnership Program - Lorain County Community College

The University Partnership Program brings colleges and universities, including The University of Akron, to the LCCC campus to offer the course work and programs that students need for bachelor's and master's degrees. Degrees offered parallel those that LCCC offers, enabling students to move into higher level degrees without leaving LCCC. More information is available by calling the center at (800) 995-5222, ext. 7873.

OFFICE OF CAMPUS DIVERSITY

The mission of the Office of Campus Diversity at The University of Akron, an advocate for equity and social justice, is to ensure that faculty, staff and students of diverse ethnic, social and cultural backgrounds achieve their fullest potential, in an affirming environment which supports access, retention, and successful completion of their goals. This mission is characterized by extensive student focused collaboration of all segments of the campus community, with an emphasis on preparing students to live and excel in a global society.

The Office of Campus Diversity includes: The Office of the Associate Provost and Special Assistant to the President for Campus Diversity; the Division of Access and Retention; and the Pan-African Culture and Research Center. The Office of Campus Diversity strives to:

- Support the creation and establishment of high quality educational programs to a wide variety of diverse student populations
- Foster an environment conducive to teaching and learning
- Support and nurture in students, faculty and staff, intellectual growth and openness to a range of diverse ideas and human possibilities
- Instill in students an overarching sense of integrity and social justice so they
 may contribute as responsible citizens in a diverse community and pluralistic
 society
- Prepare students to be successful in the world of work
- · Prepare students for the pursuit of lifelong learning
- Present cultural, social and intellectual activities for campus and local community enrichment
- Provide all graduates with the skills and tools necessary to attain personal and professional fulfillment while stimulating intellectual abilities that will enable them to make informed and ethical decisions
- Serve the community through the application of knowledge to societal problems, thereby enhancing the quality of life

Through aggressive, innovative and proactive programming, the Office of Campus Diversity seeks to involve all faculty, staff and students in improving the campus climate. The promotion, coordination, and cooperation of various offices, programs, academic departments and service units, will enhance student success. It is through the involvement and interaction of all concerned that needs are met and academic and social development occurs.

Office of the Associate Provost and Special Assistant to the President for Campus Diversity

The Office of the Associate Provost and Special Assistant to the President for Campus Diversity serves as the central administrative unit for the Office of Campus Diversity. This office reports directly to the Senior Vice President and Provost and to the President. The overall responsibility of the Office of Campus

Diversity includes:

- · Setting policies on issues related to diversity
- · Creating programs to enhance success of faculty, staff and students
- Creating cooperative and collaborative liaisons with various offices and officers of the University
- Developing positive relationships with the community
- Fundraising for programming and scholarships
- Developing public relations and communication with campus and community constituencies.

The Office is located in Buckingham Cultural Center, Suite 101, 330-972-7658.

Division of Access and Retention

The Division of Access and Retention supports the university in its goal to recruit and retain students of color by providing a variety of programs and services. The division assists students in their adjustment to university life by encouraging them to achieve their personal, academic and career goals through:

- Academic support services and programs
- Skill development workshops
- Leadership/involvement activities
- Individual and group advising
- Access to technology

The two units that support the programming goals of the Division of Access and Retention are Academic Support Services and Graduation Support Services.

Programs offered through the Division of Access and Retention include:

The Extended Orientation Program provides incoming, full-time baccalaureate freshmen the opportunity to receive guidance and advance preparation for the college experience with the assistance of various campus faculty, administrators and upperclass students. Extended Orientation activities include: Breakfast with upperclass students, assessment and skill enhancement activities, faculty guidance concerning educational expectation in college and social activities.

The PASSAGE Program is a structured learning community experience which: Promote the academic and social integration of African American students into the university, assist African American Students with developing a strong affiliation with the academic culture of the university, promote student learning and retention through collaborative and cooperative learning and promote the use of technology.

Transitions is a collaborative effort between the Division of Access and Retention, the degree-granting colleges and University College. Through this initiative, the graduation support services unit monitors academic progress and assists students in making decisions toward degree completion. In addition, the program is designed to prepare students for the transition from college to the world of work or graduate school opportunities. Transitions service include: Workshops, personal, academic and career consultation, Transfer Student Liaison and Supplemental Instruction.

Lastly, the division offers several leadership opportunities for University of Akron upperclass and graduate students:

Peer mentors are selected to mentor first-year and transfer students through one of the aforementioned programs.Additionally, Peer Mentors assist professional staff with facilitating workshops, orientation classes and Extended Orientation activities.

The **Leadership Development Program** is designed to assist college students in developing personal skills and competencies necessary for academic, co-curricular, community outreach and involvement. Students will also become aware of the transferability of these skills and competencies from the college environment to career settings.

The Pan-African Culture and Research Center

The primary focus of the Pan-African Culture and Research Center is to provide opportunities for faculty, staff and students to develop an understanding and appreciation of the African-based cultures which have developed throughout the world. The Center also provides information to support and stimulate student research. Services offered include a variety of lectures, seminars, programs, workshops and activities which promote student development and contribute to a more comprehensive understanding of the African Diaspora, with an emphasis on the African American experience. The Pan-African Culture and Research Center is driven by the philosophy of "Legacy, Leadership and Excellence" which forms the basis for a "Beloved Community," espoused by Dr. Martin Luther King, Jr. It is through understanding our past, preparing leaders for the future and embracing excellence that this theme is realized.

The Pan-African Culture and Research Center also published an annual diversity calendar of events and collaborates with other offices and organizations to promote cross-cultural understanding and appreciation of diversity.

The **Dr. Shirla R. McClain Gallery of Akron's Black History and Culture**, a component of the Pan-African Culture and Research Center, is housed in the Buckingham Cultural Center. The mission of the Gallery is to develop and display exhibits which portray the historic and cultural presence of African Americans in the Greater Akron Community. The University, in collaboration with the Akron Public Schools and committed community volunteers, promotes educational programming, which highlights the achievements of African Americans within the context of the larger American social order.

All students at The University of Akron are encouraged to learn more about the history and culture of African and African American people.

The Pan-African Culture and Research Center is located in the Buckingham Building, Room 64. For more information, please contact the center at 330-972-7030.

THE UNIVERSITY OF AKRON CONTINUING EDUCATION AND EVENING DIVISION

The mission of Continuing Education and Evening Division is to extend the resources and expertise of The University of Akron by providing quality lifelong educational opportunities which meet community needs.

The Continuing Education and Evening Division at The University of Akron provides a wide range of educational, technical and research services that enhance the effectiveness and quality of lifelong learning. In addition, the Continuing Education and Evening Division provides services that require the special expertise of the faculty and staff to better serve the economic and social development of Northeastern Ohio.

The University of Akron has a strong tradition of service to the community through research, consultation, business partnership and continuing education. Buchtel College's first class (1872) was comprised of 46 regular freshmen and 164 preparatory noncredit students, including civil war veterans. Within a year, Buchtel College enrolled noncredit students in business courses in an outreach center in Barberton.

The Continuing Education and Evening Division is the liaison between external constituencies in search of services and technical expertise available through the University and academic and professional units and individuals who can best supply those needs.

Primary goals include:

- Providing continuing and professional education.
- Participate actively in technology transfer.
- Share in the significant discoveries of pure and applied scientific research conducted by University faculty.
- Support the development of Ohio business and industry.
- More efficiently use The University of Akron's resources to meet important social and economic needs.
- Facilitate certification of health care and human service professionals.
- Enhance articulation between the University and area schools.
- Service to non-traditional students.

Continuing Education and Evening Division is located in the Polsky Building, Room 466. For more information, call 330-972-7577 or find them on the World Wide Web at http://www.uakron.edu/ce.

The Evening Division

The Evening Division is dedicated to serving the needs of adult learners and those who seek educational opportunities at night. The mission of the Evening Division includes:

- Assist evening students who are thinking of beginning or returning to college, transferring from another institution, or moving into the area.
- Aid adults as they make the transition to being University of Akron students and help them make appropriate educational and career choices.
- Advocate for and with evening students to ensure institutional policies and practices help them.
- Foster greater community participation in campus programs and activities.

The Evening Division is located in Carroll Hall, Room 55, and has office hours from noon-9 p.m., Monday-Thursday, and 8 a.m. - 5 p.m., Friday. For more information, call 330-972-5793.

Weekend Degree Programs

To meet the needs of adult learners and those seeking non-traditional learning formats, The University of Akron offers weekend classes for the following Associate degree programs

- Business Management Technology
- Criminal Justice
- Fire Protection
- Community Services
- Additionally, five-certificate programs are available in the weekend format. They are:
- Addiction Services
- Supervision and Management
- Business Management Technology
- Accounting Technology
- Real Estate

The class format follows a Friday evening, all-day Saturday and Sunday afternoon structure.

For more information, call the Evening Division (330-972-5793) or the Community and Technology College (330-972-7220).

SUMMER SESSIONS

The University's Summer Sessions provide educational opportunities for the student who wishes to attend college classes over the summer. Summer Sessions include work toward associate, baccalaureate, and advanced degrees as well as additional education in students' chosen professions.

The Campus

During recent years, the University campus has undergone many major changes. In 1951 the University's 13 acres encompassed only 10 buildings. Currently the Akron campus covers 190 acres and includes 75 buildings. Plans have been made to renovate and build additional academic, recreational, and parking facilities. The campus is illuminated at night and security personnel patrol the area hourly.

LOCATION

The University is situated in a large metropolitan area. The campus, although centrally located within the city, features parklike pedestrian areas. Students have easy access to retail outlets, transportation, and churches. Akron is easily reached by automobile from major national east-west routes (Interstates 80, 90, 76, and the Ohio Turnpike) and north-south routes (Interstates 71 and 77), all of which link Akron to the surrounding states and regions. The University itself is located between East Market Street and East Exchange Street in the downtown area. For airline passengers, limousine service is available from the Cleveland Hopkins International Airport and the Akron-Canton Regional Airport, south of Akron.

BUILDINGS

Many of the buildings on campus bear the names of prominent persons who are recognized for their contributions in administration, education, business, science, or University service. Major buildings include:

Admissions Building. Located at 381 Buchtel Common, the Office of Admissions assists students, with applications, requirements, and procedures for undergraduate, postbaccalaureate, guest, transfer, auditing, or special student status.

Akron Polymer Training Center. The Akron Polymer Training Centerat 225 East Mill St. is an instructional classroom and laboratory facility for Polymer Engineering and Engineering and Science Technology Polymer Science classes.

Arts & Sciences Classroom Building. Construction of this new \$19.5 million, 127,200 sq. ft. building at 290 E. Buchtel, just north of Bierce Library is expected to be completed by Summer 2002. Occupants will include the Dean of the Buchtel College of Arts and Sciences, Psychology, Public Adminstration/Urban Studies, Geography and Planning, Mathematics and Computer Science and Statistics. The building will also feature 16 new state-of-the-art classrooms.

Auburn Science and Engineering Center. Named for Dr. Norman P. Auburn, 10th president of the University, this complex is one of the largest academic buildings in the state. The center houses the College of Engineering, including the dean's office, the Engineering Co-op Office; Mechanical, Electrical, Chemical, and Civil Engineering; as well as the Department of Biology, biology research facility, and the science and engineering holdings of University Libraries. The Sci-Tech. Library is currently being remodeled to provide 26,500 sq. ft. of additional stack and study space.

Ayer Hall. Named for the first dean of the College of Engineering, Frederic E. Ayer, Ayer Hall provides classrooms and offices for the departments of Mathematics and Computer Science and Physics.

Ballet Center. This center, located at 354 East Market Street, houses dance studios, a choreography laboratory, faculty offices, and offices for the School of Dance, the Ohio Ballet, and the Dance Institute.

Bierce Library. Named for General Lucius V. Bierce, an Akron mayor, lawyer, historian, state senator, philosopher, philanthropist, and soldier, the building opened in the spring of 1973. In addition to the book and periodicals collections, the facility houses audio-visual materials, maps, and microforms. University Libraries, including science and technology materials located in the Auburn Science and Engineering Center, have holdings of more than 2.8 million items.

Buchtel Hall. Originally built in 1870, this structure was destroyed by fire in 1899 and rebuilt in 1901 (Buchtel Hall II). The administrative center of campus, Buchtel Hall was completely restored in 1973 following a devastating fire in 1971. It is the University's link with its predecessor, Buchtel College. It provides office space for numerous administrative officials of the University.

Buckingham Center. This building houses a Cultural Diversity Center, which includes the Black Cultural Center, Peer Counseling Program, Diversity Council, and a repository of African-American history.

Business Administration Building. This \$9.1 million facility, located at 259 South Broadway, was completed in 1991. The structure consolidates office, classroom, and laboratory facilities for the dean of the College of Business Administration, the George W. Daverio School of Accountancy, and the departments of Finance, Marketing, and Management. **Carroll Hall.** Adjacent to the Gardner Student Center, Carroll Hall houses classrooms, laboratories, and offices for the departments of Counseling and Special Education, Geography and Planning, Developmental Programs, The Academic Computer Testing Facility and The Office of the President of the Faculty Senate.

Center for Child Development. This former Girl Scout regional headquarters building at 108 Fir Hill has been renovated to accommodate the University's Center for Child Development.

Central Services Building. At 185 S. Forge St., this building houses the administrative service departments of central stores, printing services, and mail room.

Computer Center. Purchased and renovated in 1981 for \$1.3 million, this building at 185 Carroll Street houses the University's Information Services offices, main computers, and workrooms, as well as student and faculty microcomputer labs and time-sharing terminals.

Crouse Hall. Crouse Hall houses the Department of Geology, the Center for Environmental Studies, classrooms, and some of the College of Education offices.

E.J. Thomas Performing Arts Hall. Named for Edwin J. Thomas, prominent industrialist and dedicated member of the University Board of Trustees from 1952 to 1975, this cultural center, which cost more than \$13.9 million, was formally opened in 1973. Designed to accommodate concerts, opera, ballet, and theater productions, the hall is a masterpiece in architecture, acoustics, and creative mechanisms. It stands at the comer of University Avenue and Hill Street.

Firestone Conservatory. On the first floor of Guzzetta Hall, this facility provides classrooms, practice rooms, and offices for music.

Folk Hall. This building, at 150 E. Exchange St., provides modern, well-equipped facilities for the Mary Schiller Myers School of Art. Studios are available for graphic arts, photography, drawing, painting, metalsmithing, ceramics, and computer design. The Emily Davis Art Gallery is also located in the facility.

Gallucci Hall. This building, at 200 East Exchange Street, formerly a Holiday Inn, is a co-ed residence hall and home to the Honors Program and honors students. It also provides office space for Academic Achievement Programs, and temporary quarters for the Hospitality Management Department and *Crystal Room* dining facility.

Gardner Student Center. This complex was named for Donfred H. Gardner, who was appointed dean of men in 1926, the University's first dean of students in 1937, the first dean of administration in 1955, and later, in 1959, was promoted to vice president. He retired in 1962. This facility, which serves as a unifying force in the life of the institution, houses nearly 80 percent of all non-academic activities on campus. It provides bowling alleys, meeting rooms, lounges, student activity and publication offices and workrooms, a game and billiard room, a bookstore, bank facilities. Phase I of a new \$41 million Student Union, which will ultimately replace GSC entirely, is currently under construction.

Mary E. Gladwin Hall. Housing the College of Nursing and biology laboratories, this building was named in honor of distinguished alumna Mary E. Gladwin (1887), who rendered unparalleled service to the nation during World War I. The \$10 million complex opened in 1979 and includes the administrative offices of the College of Nursing, faculty offices, the Center for Nursing, a Learning Resources Center that includes patient care simulation areas, an audio-visual center, and a state-of-the-art computer learning center.

Goodyear Polymer Center. Construction of the \$17 million Polymer Science Building was completed in the spring of 1991. This two-tower structure of steel, concrete, and glass, located at 170 University Avenue, houses offices for the dean of the College of Polymer Science and Polymer Engineering, and the V.P. of Research and Dean of the Graduate School Offices. The facility features a 200-seat lecture hall, offices, classrooms, and research laboratories for the Institute and Department of Polymer Science.

Guzzetta Hall. Complementing the E.J. Thomas Performing Arts Hall, this facility was constructed directly across Hill Street. The \$5.5 million structure, dedicated in October 1976, houses the Office of the Dean of the College of Fine and Applied Arts, and departmental space for the School of Dance, Theater and Arts Administration, and the School of Music. In addition to providing more than 40 student practice rooms, the complex houses a small experimental theater and a 300-seat recital hall.

James A. Rhodes Health and Physical Education Building (JAR). This structure on Buchtel Common is connected to Memorial Hall by a pedestrian bridge over South Union Street and contains an intercollegiate basketball facility seating 7,000, an indoor jogging track, physical education laboratories, classrooms, the athletic director's office, the sports information office, athletic offices, and a ticket office.

Hower House. Located on Fir Hill, this 19th-century mansion has been designated a Historic Place by the National Park Service.

Interim Student Administrative Services Building. All student services operations presently located in Spicer Hall, are scheduled to move to this interim remodeled facility at 185 E. Mill St. (formerly the GoodWill Building) by January 2002. Relocated departments will include Registrar's Office, Cashier, Parking, Loans and Receivables, Student Financial Aid, Academic Advising, Controller, Auditor, University College and the Office of Accessibility

Knight Chemical Laboratory. This \$10 million complex is named in honor of Dr. Charles M. Knight, who taught the first courses in rubber chemistry at Buchtel College as early as 1909. Opened in 1979, the building houses the Department of Chemistry and features many innovative laboratories with the most sophisticated safety equipment, as well as classrooms and faculty and administrative offices.

Kolbe Hall. Named for the first president of the Municipal University of Akron, this building was remodeled for the School of Communication at a cost of \$7.3 million. Additions to and remodeled space within the building have provided space for faculty and staff offices, TV studio areas, WZIP-FM radio station, computer labs and classrooms. The building also houses the Paul A. Daum Theater.

Leigh Hall. Named in honor of Warren W. Leigh, first dean of the College of Business Administration, this facility on Buchtel Common currently houses the John S. Knight Auditorium and general purpose classroom space. Temporary occupants of the building include Interdisciplinary Studies, the English Language Institute, a portion of Academic Achievement offices, The Strategic Planning Office, the Statistics Department, and the Equal Employment Opportunity/Affirmative Action Office.

Paul E. Martin University Center. Located at 105 Fir Hill, the Paul E. Martin University Center has changed from a private club serving dues-paying members to a University-operated restaurant and banquet center. The table service restaurant is open for lunch between 11:30 a.m. and 2 p.m. Business and departmental functions, banquets, receptions, and parties can be scheduled during the hours of 7:30 a.m. to noon. The office of the Department of Development is located on the upper floors of the building.

McDowell Law Center. Named for C. Blake McDowell, prominent local attorney, alumnus, and benefactor of the University, the center houses the School of Law. Opened in 1973 at a cost of \$2.5 million, it provides space for the law library, classrooms, moot courtroom, appellate-review office, seminar rooms, and faculty offices. A \$2.8 million addition provides library and support space, and a \$1.5 million second expansion has linked McDowell Law Center to West Hall, providing additional administration office space. The law complex stands at the corner of University Avenue and Wolf Ledges Parkway.

Memorial Hall. Dedicated to the memory of Summit County men and women who died in World War II, this is the companion building to the JAR. It contains offices of the Department of Health and Physical Education, a main gymnasium, a gymnastics area, a combatives area, a motor learning lab, a human performance lab, an athletic training lab for sports medicine, a weight training and fitness center, an athletics batting cage, the intramurals sports office, and classrooms.

Ocasek Natatorium. The \$6 million natatorium, completed in 1988, is a 70,000square-foot structure that houses an Olympic-size swimming pool with adjacent spectator seating area, and locker rooms and showers. The center also houses nine racquetball courts as well as weight room facilities. The natatorium is named for former Ohio State Senator Oliver Ocasek.

Olin Hall. Named in honor of Professor Oscar E. Olin and Mr. Charles Olin, this facility was completed in May 1975. The hall houses the Office of the Dean of the Buchtel College of Arts and Sciences and the following departments and institutes: Classics, Economics, English, Arts & Sciences Careers Program, History, Modern Languages, Political Science, Philosophy, Sociology, and the Ray C. Bliss Institute of Applied Politics. The complex is at the corner of Buchtel Common and South Union Street.

100 Lincoln Street Building. This building houses the Purchasing Department, and Telecommunications Department offices, as well as the Office of the Vice President, Capital Planning and Facilities Management, the Office of the Director of Campus Planning, and the Office of the Director of Space Utilization.

143 Union Street Building. This building provides temporary space for the offices of the University Treasurer, Resource Analysis and Budget, the Payroll Department, the Assoc. Vice President for Business and Finance and the Assistant Vice President for Auxiliary Services.

Olson Research Center. This facility, adjacent to the new Polymer Engineering Academic Center on Forge Street, houses space for the Department and Institute of Biomedical Engineering and the Department and Institute of Polymer Engineering.

Physical Facilities Operations Center. This building, located at 146 Hill Street, houses physical facilities offices, craft shops, the central heating and cooling distribution center, and the Campus Police/Security Department.

The Polsky Building. The largest academic building in Ohio, this renovated downtown department store is home to the Community and Technical College dean's office, and the departments of Business Technology, Public Service Technology, Allied Health Technology, and Associate Studies. Also located here are the University Archives, the Archives of the History of American Psychology, the School of Speech-Language Pathology and Audiology and its Audiology and Speech Center, the Department of Public Administration and Urban Studies, the School of Social Work, the Continuing Education Office, the Office of International Programs, the Graduate Dean's Office, the Associate Vice President for Research and Technology Transfer, including the Office of Research Services and Sponsored Programs, and the Institute for Policy Studies offices, the Center for Health and Social Policy, and temporary quarters for the Department of Psychology and the Institute for Life-span Development and Gerontology. A University food service facility and a campus bookstore are in operation on the High Street level (third floor).

Polymer Engeering Academic Center. The construction completion of this new \$5.8 million facility is scheduled for Summer 2001. This 31,900 sq. ft. building is connected by pedestrian bridge to the Olson Research Center Polymer Engineering Research laboratories. The new building will include departmental, faculty and graduate student offices, the Rubber Division offices of the American Chemical Society, classroom space and a 134-seat lecture hall.

Robertson Dining Hall. This building at 248 East Buchtel Avenue has a cafeteria and dining room for students, as well as the campus infirmary, which provides health services for the University.

Rubber Bowl. This off-campus stadium at 800 George Washington Boulevard, four miles from campus, features an artificial turf playing field, seating for 35,000, locker rooms, concessions, and a press box.

Schrank Hall. Named for Harry P. Schrank, longtime member and chairman of UA's Board of Trustees, this complex, which adjoins Auburn Science and Engineering Center, is composed of two academic structures and a parking deck. Schrank Hall North contains space for the Counseling, Testing and Career Center (including Placement Services), some Civil and Mechanical Engineering faculty office and research space, a College of Engineering minority students study area, the Biology lab & Learning Resource Center, Engineering & Science Tech Drafting labs, and general purpose classroom space. Schrank Hall South provides facilities for the School of Family and Consumer Sciences, the Community and Technical College's Engineering and Science Technology Department, and the Army and Air Force ROTC units.

Spicer Hall. This major student services building currently houses the Registrar's Office, Academic Advisement Center, the Office of Student Financial Aid, University College, the Office of Accessibility, and the Student Assistance Center, as well as the Parking Systems office, and offices for the University Controller, the University Auditor and External Auditor, the Cashier's Office, and the Loans, Receivables Office. All offices are scheduled to move to the ISAS Building at 185 E. Mill Street (formerly Goodwill Building) by January 2002.

Stitzlein Alumni Association Center. Named for Harry P. and Rainey G. Stitzlein, this recently remodeled building, north of East Buchtel Ave. at Fir Hill, houses the Office of The Alumni Association.

277 Broadway Street Building. This building provides administrative space for the Office of Human Resources, including benefits, employment services, labor and employee relations, and personnel services, as well as the Department of University Communications.

West Hall. This renovated structure on Wolf Ledges Parkway is part of the McDowell Law Center.

Whitby Hall. Named for G. Stafford Whitby, a pioneer in the development of polymer science, this building opened in 1975. Housed in this facility are some polymer science laboratories and the Department of Chemical Engineering. Occupants will vacate the building (temporarily to ASEC) for a major remodeling project from January 2002 to August 2003.

Zook Hall. Named to honor George F. Zook, president of the University from 1925 to 1933, this Buchtel Common facility houses the College of Education offices of the Dean, Associate Dean for Academic Affairs and Assistant Dean for Student Affairs and admission advisement offices. Other facilities include a lecture room that seats 245, general classroom, a science and mathematics classroom/laboratory, a distance learning classroom, a Center for Literacy, two technology-enhanced demonstration classrooms, two computer-training classrooms, and a multi-media laboratory.

FACILITIES AND EQUIPMENT

The University's addition of modern teaching aids demonstrates its recognition of the need, in this technological age, for up-to-date facilities and equipment. Many of these facilities are described below.

Buchtel College of Arts and Sciences

The **Department of Biology** houses greenhouses, controlled-environment chambers, a new animal research facility, a molecular biology research center, modern laboratories, and equipment that includes advanced light microscopes (differential interference contrast, fluorescence), electron microscopes (scanning and transmission), scintillation counters, ultracentrifuges, DNA sequencing apparatus, and physiographs; vehicles, boats and a 400-acre nature preserve are available for fieldwork. Many biology courses use the department's student computer lab for review of multimedia presentations, data analysis, simulations, Internet and web assignments, teleconferencing, scanning, word-processing, and printing.

The **Department of Chemistry** is located in the Knight Chemical Laboratory building. The department offers outstanding instrumentation, such as nuclear magnetic resonance spectrometers, research-grade gas chromatographs, infrared and ultraviolet spectrophotometers, and other modern research tools for identification and characterization of compounds. The Chemical Stores facility maintains an inventory of more than 1,100 items, including chemicals, glassware, and apparatus.

The **Department of Classical Studies, Anthropology and Archaeology** has a Macintosh-based computer lab which gives easy student access to a collection of several thousand original digital images of ancient Mediterranean buildings, artifacts and art works, to the Perseus program, a digital multimedia database on the Greek world (20,000 images and most of Greek literature both in Greek and in translation), and to the Internet and the Web. The lab includes an extensive suite of graphics software, three dual-monitor authoning workstations as well as desktop machines, flatbed and film scanners, and an accelerated 100 base-T local network connected to the University backbone. Digital investigation and creation are a regular part of most classes.

The Interdisciplinary Anthropology Program laboratories contain hominid fossil casts, archeological collections, and a variety of equipment used in field research projects as well as computers for use with faculty and student research projects using ArchView and qualitative software packages. The Anthropology Program is affiliated with the Institute for Health and Social Policy. The Anthropology website is www.uakron.edu/anthro. It contains current course listings, the "Notes From the Field" Newsletter and information on research.

The **Department of Economics** is housed on the second floor of Olin Hall in a modern office complex with space for both faculty and graduate students. Economics as a discipline has become increasingly analytic. In keeping with this trend, the department recently opened a new computer laboratory for faculty and students. The lab is equipped with the latest equipment, running in a Windows environment. In addition, the department has a variety of software, including economic tutorials, word processing programs, SAS/MVS, SAS/MM, and SAS/PC. The lab is also equipped with laser printers. Network access allows students to search for books, journal articles, the latest economic data, etc., remotely from either Ohio Link or the worldwide web. The lab is located in close proximity to the faculty offices which facilitates interaction between faculty and students, and enhances the students' educational experiences.

The **Department of English** maintains a Communications Center, where English students may create and print papers, do desktop publishing, and gain telecommunication access through the ZIPnet and Internet. The department supports the journal *Seventeenth-Century News* and staffs *The Social History of Alcohol Review*. The Thackaberry Room houses bibliographies, indices, and reference works relevant to the specialties taught. Graduate seminars are held in the department's own seminar room within the English complex.

The **Department of Geography and Planning** has an instructional computer lab and specialized labs for research and production work in cartography, geographic information systems (GIS), remote sensing, and soils analysis. These labs have a variety of cartographic, GIS, remote sensing, database, spreadsheet and statistical analysis software as well as digitizers, scanners, printers and plotters. The department also houses a diverse collection of maps, aerial photographs and satellite images. The **Department of Geology** has modern instrumentation for field and laboratory studies which includes an automated electron microprobe, automated X-ray diffraction system, ion-coupled plasma spectrometer, atomic absorption spectrometer, ion chromatograph, coal and sulfur analyzers, oxygen bomb calorimeter, gravimeter, resistivity gear, refraction seismography, magnetometers, image analyzer, cathodoluminoscope, microcomputer laboratory with printers, map and video digitizers, wide carriage network plotter, flat bed and slide scanner, core laboratory, research microscopes, a well-equipped darkroom, rock saws, automated thin-section equipment, portable rock corer, Giddings soil probe, a four-wheel-drive vehicle, and two 15-passenger vans.

The **Department of History** in Olin Hall is housed in a modern office suite with space for graduate assistants as well as professors. The Clara G. Roe Seminar Room is used for graduate seminars.

The **Department of Mathematics and Computer Science** is located on the upper floors of Ayer Hall. Students of mathematics, applied mathematics, and computer science have access to a wide variety of computing facilities, operating environments, languages, and software in laboratories maintained in and by the department.

Two labs, which contain Intel-based computers, are connected by a NT Server Network. One of these labs is frequently used for class laboratory sessions for up to twenty students. This is a standard feature of many entry-level courses in mathematics and computer science. The other lab is an open lab in which students find a similar environment in which to work independently on assignments. The lab PCs run Windows NT 4.0. NSF TCP/IP has been installed and access is provided to the Internet via ftp, telnet, and Netscape. Software available includes Maple, ISETL, and MATLAB for mathematics; Turbo C++, Java, Visual C++, Macro Assembler, Visual BASIC for computer science; Microsoft Office, and Microsoft Works for more general use.

Another open laboratory is mainly devoted to a UNIX client/server environment. There are 15 SUN SparcStations (Solaris 2.51) and nine RedHat Linux machines, all of which support a graphical user interface. These devices are used for many of the upper-level computer science courses. They are on a separate local ethernet network supported by a high-performance server running OSF TRU64 Unix operating system. They also support MOSAIC and Netscape. Languages available include Lisp, FORTRAN, Pascal, two versions of C and C++, Perl, and JAVA.

Two special graduate/research laboratories are also part of the department. An Applied Mathematics and Scientific Computation Lab contains SUN SparcStations, IBM RISC 6000s, and Silicon Graphics Workstations. A MasPar parallel computer is provided for parallel processing. It is available for research, but is also used for an undergraduate computer science course. A lab is also available for graduate students in computer science. It has a variety of workstations and PCs and is connected to both the NT Server network and the SUN network.

Most machines in the department also provide Internet access to encourage students and faculty to keep current on subjects of interest. The University and the department have home pages on the web. Additional information about the department, its faculty, and its programs, is therefore available on the Internet. The address for the home page of the department is *http://www.mathcs.uakron.edu*. Remote log-ins from the University are permitted to those who have accounts elsewhere. For example, many faculty members have accounts at the Ohio SuperComputer Center in Columbus, OH. The department also has a connection to the VBNS Internet II network.

Dial-in access to all facilities, except the NT server network, is available via the University dial up line. Students are encouraged to work at the location that is most convenient to them. Any communication software using ppp protocols can be used.

With the variety of equipment, operating systems, languages and software, the department can meet the computing needs of its students and faculty. As advances and changes are made in what is available, the department makes the appropriate modifications, updates, and purchases to maintain currency in a rapid-ly changing field.

The proximity of the faculty offices to the computer laboratories encourages regular interaction between students and faculty. E-mail is another vehicle for student-faculty communication. Staff members provide introductory seminars and are always available to assist and guide students. A friendly, informal, helpful atmosphere makes the department an enjoyable place to learn and gain practical experience.

The **Department of Modern Languages** has a Language Resource Center in Olin Hall. The Language Resource Center contains facilities for students to listen to audiotapes and view videotapes as a class or individually. Fourteen networked multimedia computers have software for additional language practice and foreign language word processing. Access to the World Wide Web provides students with the opportunity to both read and listen to up-to-date news and cultural information in foreign languages. Magazines and dictionaries are also available for student use. Additional information about the department and its programs is available on the internet at www.uakron.edu/modlang/.

The **Department of Philosophy** is located on the third floor of Olin Hall. It houses a small computer lab and a private library for philosophy students. Brief biographies and pictures of each faculty member in the department can be found on the University website at www.uakron.edu/philosophy/.

The **Department of Physics** is located on the first three floors of Ayer Hall. Facilities include research laboratories used for faculty and student research projects, laboratories for experiments associated with coursework and several microcomputer labs for undergraduate and graduate student use. Most of the department's computers are networked. The department has an e-mail system and a web page (*http://www.physics.uakron.edu*) for use by the faculty and physics students. Many instructors use this system to distribute course materials and entertain questions and feedback from students. The smallness of the department provides ample opportunity for interaction with all faculty members. This interaction combined with the laboratory space, computing facilities and reading room offer a diverse learning experience to the student in an attractive and hospitable environment.

The **Department of Political Science** maintains an instructional computer laboratory consisting of eight computers and a scanner. This laboratory is used by Political Science students assigned research tasks requiring improved computer and Internet skills.

The Department of Psychology is located on the third floor of the Polsky Building. The department maintains four computer labs that are available for undergraduate and graduate students in Psychology. All labs have access to the internet via Netscape as well as access to campus programs that include OhioLink, ZipLink, MVS and DAX. Equipment available in the computer labs includes: Pentium-based computers, HP laser printers, VCRs, and video/computer projectors. Supported throughout the labs are statistical packages which include SAS, SPSS and Lisrel. Wordperfect and MS Word are available throughout the department for word processing. A full-time research programmer/analyst provides hardware and software support for the department and writes custom software for computerized research. In addition to the computer labs, a counseling clinic is maintained by the department and has videotaping capabilities for the study of counseling processes and outcomes. Additional facilities of the Psychology Department include: research areas for individual computer research and for small group behavior research, a Test Room where current psychological testing materials are kept, and an Undergraduate Advising Office for psychology students. Additional information about the department, its faculty, and its programs, is available on the Internet at http://www.uakron.edu/psychology.

The **Department of Sociology** facilities include research laboratories used for funded research projects. The department shares a computer facility for all students in Olin Hall which includes microcomputer and terminals directly linked to the University's mainframe computer and libraries. Many statistical, word processing and web search capabilities are included in the software packages. The Newman Library, providing many current professional journals, is open for students' use. The Department is also affiliated with The Institute for Health and Social Policy.

The **Department of Statistics** maintains two instructional computer labs. One of these labs is used for class laboratory sessions for the general education mathematics requirement course, Basic Statistics, and is located in Leigh Hall, Room 102. The other lab, located in Leigh Hall, Room 67, is being used for various undergraduate and graduate statistics courses. The Center for Statistical Consulting, housed in the department and maintained by the Buchtel College of Arts & Sciences, provides opportunities for students to gain valuable experience in the practical applications of statistics while interacting with faculty and clients.

Community and Technical College

Most offices and specialized laboratories of the Community and Technical College are located in The Polsky Building and Schrank Hall South. However, the college also uses portions of Gallucci Hall. In addition, Community and Technical College classes are frequently scheduled in classrooms all over the University campus and at local businesses.

The **Business Technology Department** has many extensive laboratory facilities in The Polsky Building. The Computer Information Systems area has a cluster of well-equipped personal computer labs, plus connections to the University's computer network. The Office Administration program has labs dedicated to word processing, typing, business machines, shorthand/tape dictation, and information management. The Hospitality Management program is located in Gallucci Hall, where a complete restaurant (with kitchen and a 120-seat dining room) serves food to the general public as part of its curricula in restaurant management and culinary arts. The Engineering and Science Technology Department is located primarily in Schrank Hall South. Many computer-related laboratories provide hands-on experience for students. The Drafting and Computer Drafting Technology program maintains two drafting laboratories and a new Computer-Aided Drafting Laboratory. The Computer-Aided Drafting Laboratory is equipped with microcomputer work stations utilizing AutoCAD software. The Electronic Engineering Technology program provides a circuits laboratory, electronics laboratory, control system laboratory, digital circuits, and system laboratory equipped with personal computers and a facility for fabricating printed circuit boards. The Mechanical Engineering Technology program maintains two drafting laboratories, a fluids and thermal laboratory, a machine shop for machine tool fabrication, a computer graphics and a CNC programming facility, a CNC machining laboratory, a strength of materials laboratory, and a metallographic laboratory. Manufacturing Engineering Technology labs include equipment for precision inspection and the study of robotics. A variety of surveying instruments including new electronic instruments and computer facilities for problem solutions are available for use in the Surveying and Construction Engineering Technology program. In addition, the division has laboratories for physics courses in mechanics, electricity, heat, light, and sound.

The **Allied Health Technology Department** is located in The Polsky Building, where laboratories are dedicated to Medical Assisting, Respiratory Care, and Surgical Technology.

The Department of Associate Studies is located in The Polsky Building, room 131.

The **Public Service Technology Department** is located in The Polsky Building, where its Criminal Justice lab is utilized. The American Sign Language Interpreting and Transliterating program makes use of labs there also, and the Child Development program interfaces with the University Nursery Center at 108 Fir Hill. The Fire Protection program has an extensive lab in The Polsky Building, Room 227.

College of Business Administration

The **College of Business Administration** is located in the 81,000 square-foot, four-story College of Business Administration Building, which houses the college's offices, classrooms, computer laboratories, and advising services. The departments of Finance, Management, Marketing, the George W. Daverio School of Accountancy, the Fitzgerald Institute for Entrepreneurial Studies, the Fisher Institute for Professional Selling and the Institute for Global Business share the CBA. All undergraduate and graduate programs are fully accredited by AACSB—The International Association for Management Education, the most prestigious accrediting agency for business schools.

Tiered, amphitheater-style classrooms permit close contact between students and professors. The Milton and Henrietta Kushkin Computer Laboratory provides three computer classrooms, each equipped with approximately 35 personal computers, and a homework laboratory for students with more than 72 computers. Each PC is equipped with current versions of word processors, spreadsheets, database managers, and multi-media software. Also, all PC's are connected to the Internet, World Wide Web, and e-mail.

The nationally acclaimed Carl V. and Clyde A. Fisher Sales Laboratory provides the college with six group lab rooms connected by one-way mirrors to a central monitoring and control room. Sophisticated videotape equipment permits the recording of activities in each lab room which can then be shown to students to provide immediate feedback. This facility is a key resource in college programs for training in sales, sales management, negotiation, leadership, and employment interview preparation.

The Goodyear Tire and Rubber Company Lecture Hall, the building's largest classroom, is equipped with a state-of-the-art audio-visual system capable of projecting textbook material, transparencies, slides, videotapes, computer screen images, and the like onto the room's 10-by-10 foot screen. Other classrooms also offer multi-media and internet capabilities.

Facilities for seminars, continuing education programs, and student organization meetings are provided in the John P. Murphy Executive Seminar Room and adjacent small-group meeting room.

The CBA Career Center is located in a suite of eight offices on the second floor. The suite includes a reception area, resource library, and interview rooms. The Career Center's dedicated staff of career counselors provides assistance in resume preparation, development of interviewing skills, job-search strategies, oncampus interviews, job referrals, and internship/cooperative education opportunities. The CBA's internship and cooperative education programs are among the most extensive on campus.

Offices of the college's 18 active student organizations are located in the James Dunlap Student Organization Office Suite just off the atrium lobby. Student Organizations offer opportunities for development of social, professional, leadership, and networking skills through interaction with business professionals and other students.

College of Education

The offices, laboratones, and other facilities of the College of Education are located in Zook Hall, Carroll Hall, Crouse Hall, the James A. Rhodes Health and Physical Education Building, and Memorial Hall.

The **Department of Educational Foundations and Leadership** serves undergraduate and graduate students in the College of Education. The department serves undergraduate students by providing instruction in core courses in teacher education. In the area of leadership, the department provides graduate courses in school administration and higher education administration. The department members also teach the core curriculum of historical, philosophic, psychological, and social foundations required in all graduate education programs. They teach, advise, and supervise problems, theses, and dissertations of students in their degree-granting graduate programs, the master's programs in Educational Foundations, the master's and doctoral programs in Educational Administration, and the master's program in Higher Education Administration.

The **Department of Sport Science and Wellness Education** prepares students for careers in teaching, athletic training for sports medicine, sport and exercise science, community and school health education, coaching, related recreational fields, and related health fields. There are laboratories for the study of exercise physiology, motor behavior, teaching skills (microteaching), and computer utilization in physical and health education. The department has access to the James A. Rhodes Health and Physical Education Building (classrooms, the main gym, an indoor running track, a multi-purpose room, and four teaching station areas), Memorial Hall (classrooms, as well as large and small gyms), Ocasek Natatorium (a classroom, a swimming pool, nine racquetball courts, and a weight room), and Lee Jackson Field (14 tennis courts, an outdoor running track, and two softball fields). Each of these facilities and resources is used in the presentation of our undergraduate academic programs.

The Department of Curricular and Instructional Studies includes the areas of early childhood, middle childhood, secondary (adolescent to young adult), preschool to grades 12 (P-12) education and the areas of special education as an intervention specialist for early childhood (P-3 mild/moderate/intensive), mild to moderate (K-12) or moderate to intensive (K-12). Initial teacher preparation programs are available at the undergraduate, post-baccalaureate and master's degree levels. The early childhood program prepares teachers to teach age three to grade three. The middle childhood program prepares teachers to teach grades four through nine with specialization in each of two areas selected from reading/language arts, mathematics, science and social studies. The secondary program prepares teachers in grades seven to twelve to teach language arts, mathematics, science, social studies, family and consumer science (grades 4-12), or vocational business (grades 4-12). The P-12 program prepares teachers of foreign language, music, dance, drama, or visual arts. Endorsements are available in computer/technology, reading, and teaching English as a second language. The special education options prepare undergraduates as intervention specialists/teachers for children with special needs and graduate students to be master teachers and supervisors of special education programs. The department also offers the Technical Education degree, which prepares students for teaching/training and other personnel positions at the postsecondary level and for business and industry settings. The University Center for Child Development, directed by department faculty, provides day care for children while serving as an experimental learning site for teacher education students.

The **Department of Counseling** incorporates two divisions: Counseling and School Psychology. The department operates a multidisciplinary clinic, the Clinic for Child Study and Family Therapy.

College of Engineering

The offices, undergraduate laboratories, classrooms, research facilities, machine shops, computer laboratories, and other facilities of the **College of Engineering** are located in the Auburn Science and Engineering Center, Schrank Hall North, Whitby Hall, and the Olson Research Building.

The graduates from the College of Engineering's undergraduate programs regularly achieve the highest scores in the State of Ohio on the Fundamentals of Engineering Examination, which is the first step in professional licensure. Student teams that participate in national student competitions consistently are in the top 10% of the competitors. Over 80% of eligible undergraduates elect to combine practical industrial experience with their academic studies by participating in the Cooperative Education Program, which is one of the oldest and most successful Cooperative Education programs in the United States.

Every regular faculty member actively teaches at both the undergraduate and graduate levels while performing research and professional service to the community. The current active research centers include the Computational Mechanics Research Center, the Institute for Biomedical Engineering Research, and the Microscale Physiochemical Engineering Center. The College enjoys excellent relations with industry and the public sector. This relationship is formalized through the Engineering Advancement Council, which works actively on behalf of the College, and the Engineering Advance.

The College's undergraduate programs in Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, and the Cooperative Engineering Program are fully accredited by the Accreditation Board for Engineering and Technology (ABET).

The College's new undergraduate programs in Biomedical Engineering, Computer Engineering and Mechanical Polymer Engineering are under the direction of experienced faculty members and will be considered for ABET accreditation when eligible.

The master's programs in the College consist of departmentally administered Master of Science degrees in Chemical, Civil, Electrical, and Mechanical Engineering. The Dean's Office administers the Master of Science in Engineering degree with specializations in Biomedical Engineering, Polymer Engineering, and Engineering Management.

The Doctor of Philosophy in Engineering is offered in the interdisciplinary fields of Environmental Engineering, Mechanics, Systems Engineering, Materials Science, Transport Processes, Biomedical Engineering, Engineering Applied Mathematics, Chemical Reactions and Process Engineering, Microscale Physiochemical Engineering, and Polymer Engineering. This interdisciplinary degree integrates departmental disciplines and is administered by the Dean's Office. There is coordinated Doctor of Philosophy in Engineering Degree with Youngstown State University and a joint MD/Doctor of Philosophy Degree in Engineering with the Northeast Ohio Universities College of Medicine.

The **Department of Biomedical Engineering** is located in the Olson Research Center and has classrooms, instructional laboratories and research laboratories. The department provides educational opportunities at both the undergraduate level (BS Biomedical Engineering) and the graduate levels (MS and Ph.D. in Engineering). Biomedical engineering graduate students may also participate in the joint MD/Doctor of Philosophy in Engineering Degree program between the College of Engineering and the Northeast Ohio Universities College of Medicine.

Research faculty members in the Biomedical Engineering Department have strong research programs in biomechanics, instrumentation, signals, and imaging and are active participants in the Institute for Biomedical Engineering Research. There are nine major research laboratories located in the Biomedical Engineering Department.

The Musculoskeletal Biomechanics Laboratory is equipped with materials testing equipment and finite element analysis capabilities. The Imaging Devices, Detector and Sensors Laboratory has instrumentation for design, production, and analysis of medical imaging devices. The Image Processing Laboratory is built around Sun Sparc workstations, two of which are equipped with image processing accelerators. Image processing and display software and a large database of medical images are available for students to use in individual research and class projects.

The Human Interface Laboratory conducts research in virtual reality, telemanipulation, biofeedback therapy and minimally invasive surgery. The Rehabilitation Engineering Laboratory is equipped to conduct collaborative research on problems related to stroke, head injury and arthritic patients. The Biomedical Instrumentation Laboratory has continuous wave and Doppler ultrasonic equipment, temperature sensing devices, and blood pressure and flow monitoring equipment.

The Vascular Dynamics Laboratory provides facilities to analyze blood flow using laser Doppler anemometer and Doppler ultrasound techniques. The Motion Analysis Laboratory studies all aspects of human movement. This laboratory is equipped with a Vicon Motion Analysis System, two AMTI force plates, a MA-100EMG system, and associated computer hardware and software.

The Biostereometrics Laboratory is equipped to perform spatial analysis using three-dimensional sensing technology, which includes a Kern Maps-200 Digitizing System and a JK Laser Holographic camera for laser holographic interferometry.

The **Department of Chemical Engineering** is located in Whitby Hall with undergraduate laboratories in the South Tower of the Auburn Science and Engineering Center and research laboratories in the North Tower of the Auburn Science and Engineering Center. The department provides educational opportunities for students at both the undergraduate and graduate levels in Chemical Engineering. Undergraduates may earn a Specialization in Polymer Engineering by taking appropriate courses. A major feature of the Undergraduate Laboratory is the 24 feet high distillation unit with the Corning Glassplant 6-inch and 12-inch columns configured as a 12plate bubble-cap column, an 8-foot high packed-bed column, and control systems. The laboratory has a pilot plant with a 5-gallon agitated reactor and a packed-column stripping facility. Laboratory experiments include a fluid flow measurement apparatus, heat transfer study systems, ion exchange for separation, microporous material synthesis in a well mixed reactor, and enzymatic material synthesis. An undergraduate Environmental Design laboratory is associated with a variety of courses and is available for individual and team research projects. Demonstration units for biochemical degradation, chemical precipitation, and reverse osmosis are available as well as analytical instrumentation including atomic adsorption and gas chromatography.

The Department of Chemical Engineering has an Undergraduate Computer Laboratory with excellent on-line computer access and up-to-date software. Software programs include word processing, numerical calculations and programming, CAD programs (ChemCAD), process simulation software, and computational fluid dynamics software (CFX). Students studying process dynamics and control make use of our Unix based UltraSparc workstations, National Instruments process data acquisition hardware and software, as well as a variety of engineering software packages including Matlab, Mathematica, Maple, and Control Station. Undergraduate Design Laboratories are available for honors research, individual design projects, and team projects.

The Applied Colloid and Surface Science Laboratory has a state-of-the-art laser light scattering facility including a Lexel argon-ion laser, a vibration isolated optical bench, a Brookhaven correlation and probability analyzer, FTIR-Ramen, TGA, and an IBM PC-based data acquisition system. The Biochemical and Environmental Bioengineering Laboratory is a satellite center of the Ohio Bioprocessing Research Consortium, housing a state-of-the-art HPLC-MS with additional luminescence, UV/VIS, and RI detectors. The labs are well equipped with several bioreactor assemblies, Sorvall RC-5C refrigerated super centrifuge, Perkin-Elmer UV/VIS spectrometer and LS-50B luminescence spectrophotometer, and on-line NAD(p) H fluorometers. The Biomaterials Laboratory is available for polymer synthesis and storage include a nitrogen hood, Sephadex separation columns, an oil bath, a dry bath, a vacuum oven, a Buch rotary evaporator, and a Labconco lyophilizer.

The Catalysis Research Laboratory is equipped with high pressure and high temperature IR reactor system with a Nicolet Magna-IR 550 Spectrometer Series II, a Nicolet Magna-IR 560 Spectrometer E.S.P. and a Balzers Prisma QMG 200 Mass Spectrometer for in situ catalyst preparation, in situ characterization, temperature programmed desorption of NO, H2, and CO, and in situ reaction studies.

The Multiphase and Solids Processing Laboratory is equipped to do research in filtration and flows through porous media. The labs are equipped with a gamma ray instrument for measuring porosity of packed columns and filter cakes, a Frazier Test to measure air permeability of filter media, a Hiac Royco BR8 particle counter, a Zeta Meter and a Brookhaven EKA Streaming Potential instrument for measuring zeta potentials. An optical system is set up to measure particle sizes and size distributions. The Nonlinear Control Laboratory is equipped with Unix based workstations and a variety of engineering software packages.

The Supercritical Fluids Laboratory, a key lab in the Ohio Supercritical Fluid Technology Consortium, is equipped with FTIR/RAMAN/ATR, GC/FID/TCD high pressure phase behavior apparatus, Berty Reactor, 1-liter stirred Reactor, dynamic light scattering, mechanical testing and high temperature GPC. The Thin Film Laboratory is equipped with plasma systems, thermal chemical vapor deposition, and in situ microbalance.

The-Department of Civil Engineering is located in the Auburn Science and Engineering Center and Schrank Hall North and has five major laboratories. In the Environmental Engineering Laboratory, students learn to analyze water, wastewater and contaminated soils to assess its quality and to determine the most effective treatment techniques. Laboratory equipment includes UV-visible spectrophotometers, respirometers, gas chromatographs, high-performance liquid chromatographs, toxicity analyzers, an atomic absorption spectrophotometer, and a total organic carbon analyzer. Water and wastewater analytical kits and specialized meters are also available for field studies.

The Wendell Ladue undergraduate computer room is equipped with personal computers and associated facilities for the use of civil engineering students for both class and personal use.

In the hydraulics laboratory a tilting flume enables the student to visualize water flow in streams and rivers. A pressurized pipe module is used to study frictional losses in different size pipes. Instructional laboratories introduce several hydraulic software tools such as FlowMaster for pressurized pipe and open channel flow calculations, EPANet, for water distribution pipe network analysis, and HEC-RAS, for calculating water surface profiles for natural streams and channels. In the soil mechanics and foundation engineering lab, a student learns how to analyze soil by a variety of tests and equipment to determine shear strength characteristics, compaction characteristics, and seismic and electrical resistivity equipment for geophysical exploration of soil and rock deposits. In addition to the standard equipment for routine testing, the laboratory has a computer-controlled cyclic triaxial testing system, pneumatically loaded consolidometers, flexible wall permeameters, a portable static/dynamic cone penetrometer, a pile-driving analyzer, and capability for ground vibration monitoring and analysis.

In the structural materials laboratory, students have the opportunity to observe the experimental verification of the behavior of structural materials, members and connections subjected to tension, compression, bending and torsion. Physical testing is accomplished through the use of two universal testing machines with a maximum capacity of 500,000 lbs, five closed loop servohydraulic testing machines with a maximum capacity of 100,000 lbs, a load frame used to test full scale members and structural systems and a Charpy impact machine. One of the closed loop machines has the capability to apply both axial and/or torsional loads. Further, a full array of data acquisition equipment is available.

The transportation lab is equipped with a complete signal control system supported by video and laser speed/range detection systems to provide traffic data for systems operation and analysis. The global positioning system tracks the position of probe vehicles on transportation network and the spread spectrum radio transmits the video and traffic data from one such system to another wirelessly.

The **Department of Electrical Engineering** is located in the South Tower of the Auburn Science and Engineering Center. The Department has an undergraduate program in Electrical Engineering and an undergraduate program in Computer Engineering. Both programs take advantage of the learning facilities that are available in the Department of Electrical Engineering which includes laboratories for the study of circuits, analog and digital electronics, control, computers, energy conversion, microprocessor interfacing, power electronics, and electromagnetic/microwaves. Laboratories follow instruction to help the student apply the material learned in class.

In the circuits laboratory students learn the basics of circuit design, instrumentation and measurements. The laboratory is equipped with digital oscilloscopes, digital volt/ampere meters and other basic measuring equipment.

The analog and digital electronics laboratory builds on the circuits sequence and introduces the student to more advanced design tools and concepts, including computer simulation of circuits. In addition to digital oscilloscopes, the laboratory contains signal generators and the like, specialized equipment such as a transistor curve tracer, single-board microcomputers, development systems, personal computers and other specialized instruments.

The computer laboratory is an open laboratory with free access to students. The laboratory contains networked personal computers with all software necessary for other courses, as well as word processing and networking software. The laboratory also serves courses in computer engineering and many elective courses and for research purposes.

The two control laboratories teach the basics of analog and digital control. The laboratories are equipped with digital measuring equipment, analog and digital computers and interfacing components.

The energy conversion laboratory teaches electric machine, energy conversion, and machine control. The laboratory is equipped with motors, generators and controllers, both digital and analog. Emphasis is placed on computer control of machines.

The microprocessor interfacing laboratory is dedicated to interfacing the computer to the outside world. Students learn how to connect devices to computers, how to program them, and how these can be used in design. The laboratory uses a variety of real-world designs and projects to keep students up to date on this important engineering activity. The equipment in the laboratory includes personal computers, single-board micro computers and industrial controllers in addition to measurement equipment and components.

The power electronics lab is taught as part of a power electronics course and teaches design of power components and circuits for operation at high voltage, high current and high power. Digital controllers and all digital measuring equipment account for a very modern laboratory.

The electromagnetics/microwave laboratory uses basic experiments in transmission lines, waveguides and antennae to teach the principles involved. In addition to the basic equipment, the laboratory has a shielded room for specialized measurements.

Additional laboratories in software engineering, signal processing and advanced control exist as part of elective courses. The **Department of Mechanical Engineering** is located in the Auburn Science and Engineering Center and maintains laboratories that are used by the undergraduate programs in Mechanical Engineering and the undergraduate program in Mechanical Polymer Engineering. The undergraduate program in Mechanical Engineering is staffed by mechanical engineering faculty and the undergraduate program in Mechanical Polymer Engineering is staffed by faculty from the Department of Polymer Engineering and the Department of Mechanical Engineering. Polymer specialization courses for the Mechanical Polymer Engineering Program are dual listed under the Department of Polymer Engineering and under the Department of Mechanical Engineering.

There are eight laboratories in the Department of Mechanical Engineering. The Thermal and Fluid Science Laboratory has internal combustion engines, a supersonic wind tunnel, a subsonic wind tunnel, and a water tunnel. The Heat Transfer Laboratory has temperature measurements systems, a gas laser, and a spectrum of heat exchangers.

The Mechanical Measurements Laboratory has a complete complement of transducers, calibration equipment and standards, signal conditioners, analog recording devices and microprocessor-based digital data acquisition systems. The Materials Testing Laboratory has a computer controlled servohydraulic structural testing machine and a uniaxial universal testing machine for performing static, quasistatic, cyclic and dynamic tests on a spectrum of engineering materials and several types of hardness testing equipment.

The Experimental Mechanics Laboratory has photoelastic strain measuring equipment and associated facilities, coupled with a complete range of strain gage instrumentation for both static and dynamic measurements. The Mechanical Design Laboratory has several major software packages for computer-aided design connected to the College's Engineering Computer Network Facility (ECNF). The System Dynamics and Controls Laboratory is composed of several microprocessors, analog computers, and digital controllers, as well as equipment for process control and robotics.

The Smart Materials and Structures Laboratory has piezoelectric and shape memory based actuators, transducers and the relevant control systems.

The Vibration and Acoustics Laboratory has electromechanical shakers, sound pressure level instrumentation, and frequency spectrum analyzers for modal analysis. The Metallography and Failure Analysis Laboratory has a complete set of metallographic instrumentation for microstructural analysis of both conventional and advanced engineering materials, and electron microscopes for analysis of failure. Undergraduates in the Mechanical Polymer Engineering program use laboratory facilities in the Department of Polymer Science, the Department of Polymer Engineering, and the Maurice Morton Institute of Polymer Science in addition to the laboratories in the Department of Mechanical Engineering.

The facilities in the Department of Polymer Science contain extensive laboratories for polymer synthetic chemistry and for the characterization of macromolecules and polymer morphology. A nuclear magnetic resonance laboratory is maintained with several high-resolution instruments. The applied research section of the Maurice Morton Institute of Polymer Science operates a variety of analytical and compounding / processing laboratories to serve the needs of industry and government agencies for a reliable source of problem solving and data. Processing laboratories include unique blending/compounding and molding facilities.

The Akron Polymer Training Center serves as a laboratory for the processing and testing of rubber and plastic materials. This Center provides classrooms and laboratories for undergraduate students in the Mechanical Polymer Engineering program. The laboratories available in the Department of Polymer Engineering include and the Extrusion Laboratory, the Electromagnetic Radiation and Electron Optics Laboratory, the Thermal and Dielectric Laboratory, the Rheological Laboratory, and the Mechanical Laboratory.

College of Fine and Applied Arts

It is the mission of the **Mary Schiller Myers School of Art** to provide a quality undergraduate education in the visual arts within the context of an open admission university. The Myers School of Art combines a strong foundation program with high quality programs in eight studio areas as well as art history and art education. The faculty consists of practicing artists, designers and scholars who combine a dedication to excellence in teaching with creative and scholary practice. The large number of faculty offers a diversity of approaches to art. An excellent faculty-to-student ratio and faculty mentoring allow extensive individual instruction. We offer two degrees designed to meet the needs of both out traditional and non-traditional students. The BA emphasis affords an opportunity for those interested in a broad background in the arts or work in related fields, while the BFA provides solid training and preparation for professional practice and life-long learning. We recognize that there are many kinds of excellence. Our mission is to determine and encourage these within our diverse student body. It is also our mission to offer our expertise and resources as professionals to the Akron and Northeastern Ohio communities. Strong exhibition programs, visiting artists and lecture series that are open to the public are one way to accomplish this. We also encourage our faculty to provide leadership and services to the community as working artists, designers, speakers, exhibition jurors and consultants.

The **School of Communication** features a television classroom/studio and a wide complement of supporting audio and video equipment, including graphics generators and linear and non-linear editors. Portable audio and video equipment is available for location use. There is an audio recording facility with multitrack capability. The School also houses radio station WZIP, an on-air 7,500 watt FM radio station serving Northeast Ohio. WZIP-FM is operated by UA students under the supervision of professional broadcasters and gives students an opportunity to develop skills in broadcasting and communication through the completion of on-air assignments. A multimedia production/editing laboratory-classroom supports class instruction. News, publications, and other writing classes have access to Macintosh and PC computer laboratories with complete desktop publishing layout, graphics, and print capabilities. The School works in cooperation with local organizations, non-profit groups and professional agencies in an internship program for upper-level students.

The **School of Speech-Language Pathology and Audiology** provides preprofessional and professional training to students who wish to become speech-language pathologists and/or audiologists. The School houses the Audiology and Speech Center, which functions as a practicum training arm as well as a service agency for persons in the region who have speech, language, and/or hearing problems.

The School of Dance, Theatre, and Arts Administration is located in the Ballet Center and Guzzetta Hall. The activities in the Dance Program in the Ballet Center include the undergraduate dance programs for the B.A. and B.F.A. degrees, Musical Theatre Degree-B.F.A. in Dance, Multi-age License in Dance, dance minor, the Dance Institute for students ages 8-18, continuing education for adults, and the Ohio Ballet. There are five studios, each with mirrors, barres, sprung marley floors, and pianos. There also is an athletic training room with a graduate assistant athletic trainer and a jacuzzi. All offices for the dance faculty, staff, and Ohio Ballet are located within the Ballet Center. Annual performances are held in the Ballet Center Stage Studio Theatre, the intimate Daum Theatre in Kolbe Hall, and E.J. Thomas Performing Arts Hall. The University of Akron is an accredited institutional member of the National Association of Schools of Dance. The Theatre Program offers a B.A., B.A. in Theatre Arts, B.A. option in Musical Theatre, Multi-age License in drama/theatre, and graduate programs in Theatre and Arts Administration. It utilizes three different performing spaces to present its annual season of two to four productions. Guzzetta Hall houses the versatile "black box" experimental Sandefur Theatre as well as rehearsal, teaching, and shop facilities. Kolbe Hall is the site of the 244-seat Daum Theatre, complete with support facilities. This conventional proscenium theatre is the home of theatre productions, as is E.J. Thomas Performing Arts Hall. Student productions are performed in Studio 28, Sandefur Theatre, and Daum Theatre.

The **School of Family and Consumer Sciences** is housed in Schrank Hall South and is accredited by The American Association of Family and Consumer Sciences. The School provides education in nine undergraduate and six graduate programs, including Child Development, Family Development, Child Life, Family and Consumer Sciences Teacher Education, Dietetics, Food Science, Fashion Merchandising, and Interior Design. Nine laboratories, including a Computer Center, are available for authentic student learning experiences. All programs provide community experiences through internships, clinicals, and student teaching. These programs have active Advisory Committees of community professionals who provide advice and networking assistance. The School's Center for Family Studies offers a variety of certificate programs, including Divorce Mediation, Home Based Intervention and Case Management. In cooperation with the College of Education, the School maintains the Early Childhood Center for the study of child development and teacher education.

The **School of Music** is housed in Guzzetta Hall and also utilizes the E.J. Thomas Performing Arts Hall. Guzzetta Recital Hall seats 250 and is equipped with a pipe organ, harpsichord, two concert grand pianos, and a recording booth. The Music Computer Center is equipped with Macintosh computers and MIDI/sound and video equipment. An electronic music studio features digital and analog multi-track recording and sound synthesis equipment for music composition. Class-rooms, studios, and 40 practice rooms (acoustical sound modules) are used for teaching, rehearsals, and practice.

The **School of Social Work** offers CSWE-accredited professional training to social work students by linking them to a variety of local health and human services community agencies and organizations. The strong commitment and interaction with a network of agencies in the community serves as a laboratory for students.

College of Nursing

The **College of Nursing**, located in Gladwin Hall, provides professional nursing education at the baccalaureate, masters and doctoral levels. The College is approved by the Ohio Board of Nursing and the baccalaureate and masters program have preliminary approval from the Commission on Collegiate Nursing Education and are fully accredited by the National League for Nursing Accreditation Commission. The College has a Student Affairs Office which provides academic advising services to prospective students. The College contains a state-of-the-art Learning Resource Center, including a computer laboratory exclusively for nursing students. The Conter for Nursing within the College is closely linked to the Akron community and is used by faculty and students for community service, practice, education and research.

The **baccalaureate curriculum** is a six-semester clinical sequence after completion of University and college prerequisite courses. Students have practice experiences in a variety of settings including hospitals, clinics, rehabilitation agencies, long-tem care facilities, community health agencies, mental health agencies, pediatric agencies and home care settings. A summer international elective course in Norway enables students to study health care delivery and nursing services from a global perspective.

Special programs are offered for Licensed Practical Nurses and Registered Nurses. The LPN/BSN Sequence features advanced placement opportunities in order to complete the BSN degree in two years after admission to the College. The RN/BSN Sequence is designed to obtain the BSN degree within one calendar year after admission to the College. The RN/BSN Sequence is offered on the Akron campus as well as the campuses of Lorain County Community College and Wayne College in Orville.

The **Mester's Program** includes advanced practice options as a clinical nurse specialist, nurse practitioner, or nurse anesthetist and an advanced role option in nursing service administration. An Advanced Role Preparation in Nursing Education Certificate Program is also available. Advanced practice specialties include adult/gerontological health nursing, behavioral health nursing, child and adolescent health nursing and nurse anesthesia. Postmasters certificate programs include adult/gerontological health nursing, behavioral health nursing, and child and adolescent health nursing. Core courses in the Master of Science in nursing program are offered via distance learning from the Akron campus to the Lorain County Community College (LCCC) and Wayne College campuses.

The **Doctoral Program** in nursing is a joint Ph.D. program with Kent State University. It is the first Joint Doctoral Program in Nursing in the state of Ohio. The curriculum focuses on the development and testing of theories and models of nursing science and nursing practice, the consideration of the social, political, legal and economic implications of health care policies and practices, and the dissemination of knowledge.

College of Polymer Science and Polymer Engineering

The **College of Polymer Science and Polymer Engineering** offers only graduate degrees leading to the Master of Science and Doctor of Philosophy in both Polymer Science and Polymer Engineering. In addition, there are elective courses in both polymer science and polymer engineering for undergraduate science and engineering majors. Options which emphasize polymer engineering have been developed with the **College of Engineering** through the Departments of Chemical Engineering and Mechanical Engineering for undergraduate students interested in the polymer industry. Options have also been developed in the college of Arts and Sciences in Chemistry and Physics which emphasize polymer science. In addition, an interdisciplinary undergraduate program leading to a degree in Mechanical Polymer Engineering, approved by the faculties of the colleges of Engineering and Polymer Science and Polymer Engineering was started in fall 1995. Students in this new program are administered in the College of Engineering, and the program is described in that section of this Bulletin.

The facilities of the **Department of Polymer Science** and the **Maurice Morton Institute of Polymer Science** support fundamental and applied research in polymer chemistry, physics, and many aspects of polymer behavior. There are extensive laboratories for polymer synthetic chemistry and for the characterization of macromolecules and polymer morphology. The macromolecular modeling center provides state-of-the-art computer modeling capabilities for research, and provides a way to introduce chemistry students in local high schools to computer modeling. A nuclear magnetic resonance laboratory is maintained with several high-resolution instruments supervised by a professional staff. The applied research section of The Maurice Morton Institute of Polymer Science operates a variety of analytical and compounding/processing laboratories to serve the needs of industry and government agencies for a reliable source of problem solving and data. The total value of major instrumentation and equipment housed in the polymer science laboratories exceeds \$9 million. The Department of Polymer Engineering and Institute of Polymer Engineering maintain a broad-based range of processing, structural, and rheologi cal/mechanical characterization facilities. Processing facilities include unique blending/compounding facilities with five twin-screw extruders, a Buss kneader, and seven internal mixers including flow visualization capability; seven single-screw extrusion lines for plastics and rubber, with ultrasonic and sound waves and rotational mandrel dies, and with single/multiple bubble tubular film and cast film extrusion capability as well as a biaxial film stretcher. Molding facilities include screw injection molding capability of five machines, blow molding, plug assist thermoforming and compression molding with composites capability. The Institute of Polymer Engineering is the home of the EPIC-M.A. Hanna Compounding and Blending Center and the Molding Technology Center. Characterization capability includes scanning and transmission electron microscopy, X-ray diffraction (including a rotating anode X-ray generator), Fourier transform infrared, small angle light scattering, optical microscopy and retardation, radiography, differential scanning calorimetry, thermogravimetric analysis, dielectric thermal analysis, and surface profiling, rheological and mechanical testing, including elongational flow, rotational and capillary shear rheometry, dynamic mechanical, tensile and impact testing.

The **Akron Polymer Training Center**, which serves as a laboratory for the processing and testing of rubber and plastic materials, was opened in June 1994. The Center was developed at the urging of the Akron Regional Development Board and EPIC, an industrial-government-university consortium, to train machine operators and technicians for the polymer industry. The Center also provides classrooms and laboratories for graduate students in Polymer Engineering, for undergraduate students in Mechanical Polymer Engineering, and for two-year associate degree students in Polymer Technology as well as continuing education courses for scientists and engineers.

University Libraries

Library facilities are housed in three separate locations: in Bierce Library on Buchtel Common; the Science Library in Aubum Science and Engineering Center, Room 104; and Archival Services in the Polsky Building, lower level.

Library services include reference and research assistance, user education, bibliographic instruction, and computer-based information searching. Materials can be borrowed from the University Libraries through the circulation department or obtained from other libraries through the OhioLINK network or other resourcesharing arrangements.

The University Libraries' collections contain more than 2.8 million items: books, periodicals, government documents, curricular materials, microforms, maps, audio-visual materials, and archival documents. The library receives nearly 5,000 magazines, journals, newspapers, and other serial publications, such as annual reports and the publications of various societies.

Through the library's memberships in the Center for Research Libraries, the Ohio Library and Information Network, the Online Computer Library Center (OCLC), and the Ohio Network of American History Research Centers, access to vast resources is greatly increased for University students, faculty, and staff.

University identification cards function as library cards. Photocopy services and equipment for use in making paper copies from microforms are available in Bierce Library and in the Science Library. Group study rooms and typing facilities are also in Bierce Library.

Audiovisual Services, located in Bierce Library, Room 63B, maintains an extensive centralized collection of media hardware and audio-visual resources for student and faculty use. It also has a collection of instructional materials in various media formats (filmstrips, slides, etc.) to supplement class-room instruction. The New Media Center supports faculty who want to improve teaching through the use of technology. Audio Visual Services also designs, installs, and maintains technologyenhanced general purpose classrooms, offering permanent in-room projection, sound reinforcement and a sophisticated media retrieval system.

Bierce Library houses the Distance Learning Classroom on the second floor. This is a state-of-the-art facility that permits the University to offer credit and non-credit classes to area schools, agencies and businesses. Part of the Medina Link initiative, this classroom can be connected to "virtually" any geographic location that has the appropriate technology. The University of Akron will have a distance learning classroom in all Medina County high schools and other locations by the year 2000.

VPCIO Division

Providing Information Technology (IT) Direction, Services and Support for The University of Akron.

Information Services supports the entire University technology needs including data, communications and library services. In today's environment, professors, students, administrators and staff use the same technology and products. Information is available directly to those who need it. Personal productivity tools, network connectivity and services provide a common infrastructure for the dissemination of information and communications.

Information Services is preparing for the University's future technology needs with an emphasis on the continued convergence of voice, video and data networks into a single digital network environment.

Distributed Technology Services provides technology and support services for the campus community. Technology and support services are provided through the following areas:

Computer Labs: 150 IBM wireless laptops are available for two-four hour loans in Bierce Library. The wireless laptops can be used anywhere within the library to access the internet, to get email, or do class assignments. Two general-purpose computer labs for students are also located in: Polsky, room 267 and the Gardner Student Center, room Chestnut B.

Both the wireless and the general-purpose labs have the same productivity tools such as Microsoft Office Suite, Adobe eBook, SPSS and SAS. All computers have internet and email capabilities.

Computer Acquisition: Computer Solutions (www.uakron.edu/compstore) is the central point for campus technology acquisitions. It is an education reseller for computer hardware, software, and many peripheral devices.

State-of-the-art IBM Laptop wireless computers can be purchased or leased at Computer Solutions, located in Gardner Student Center. The wireless laptops can be used within any building on campus. The IBM laptops are the same computers that are used by the full-time faculty for teaching and research. Details of the laptop program can be found at (www.uakron.edu/laptop).

Support Services: The Technology Learning Support Center (TLSC), located in Bierce Library, room 69 provides call-in (330-972-6888) and walk-in support for all students, faculty and staff. The TLSC support services include software issues, hardware diagnostics, and hardware repair.

Technology Learning Support Center Hours of Operation are:

Monday - Thursday	7:30 a.m8:00 p.m.
Friday	7:30 a.m5:30 p.m.
Saturday	11:00 a.m8:00 p.m.
Sunday	2:00 p.m8:00 p.m.

Software Training Services develops training materials and delivers software related training to the campus community. Training is provided in the following areas:

- Administrative Application Training-PeopleSoft, PeopleSoft Query, Crystal Reports
- Web Course Management Training-WebCT
- General Software Training-Campus Pipeline, Microsoft Excel, Netscape Communicator, Calendar, Messenger, Composer
- Statistical Software–SAS, SPSS
- Computer Based Training (ISI)

Computer Based Assessment & Evaluation provides support to students who are required to take surveys, assessments and tests online. The testing lab is located in Carroll Hall 325 and reservations for test appointments can be made at (**www.cbt.uakron.edu**). CBA & E provides support for the following:

- Develops and delivers tests, surveys and other assessment instruments on a variety of platforms.
- Administers academic computer testing in a secured, proctored environment.
- Administers placement testing for incoming university students
- Develops specialized test and system applications

Design and Development supports faculty and students who participate in distributed learning courses and programs. Support is provided through the following activities:

- Design, develop and support selected curriculum-based distributed learning programs and courses.
- Support the faculty in the design and development of web-based and enhanced online course materials using tools such as WebCT.
- Design and develop customized computer-based multimedia programs.

University Library facilities are housed in three separate locations: in Bierce Library on Buchtel Common; the Science Library in Auburn Science and Engineering Center, Room 104; and Archival Services in the Polsky Building, lower level.

Library services include reference and research assistance, user education, bibliographic instruction, and computer-based information searching. Materials can be borrowed from the University Libraries through the circulation department or obtained from other libraries through the OhioLINK network or other resource-sharing arrangements.

The University Libraries' collections contain more than 2.8 million items: books, periodicals, government documents, curricular materials, microforms, maps, audio-visual materials and archival documents. The library receives nearly 11,000 magazines, journals, newspapers and other serial publications, such as annual reports and the publications of various societies.

Through the library's memberships in the Center for Research Libraries, the Ohio Library and Information Network, the Online Computer Library Center (OCLC) and the Ohio Network of American History Research Centers, access to vast resources is greatly increased for University students, faculty and staff.

University identification cards function as library cards. Photocopy services and equipment for use in making paper copies from microforms are available in Bierce Library and in the Science Library. Group study rooms and public computing facilities are also in Bierce Library.

Audiovisual Services, located in Bierce Library, Room 63B, maintains an extensive centralized collection of media hardware and audio-visual resources for student and faculty use. It also has a collection of instructional materials in various media formats (filmstrips, slides, etc.) to supplement classroom instruction. The New Media Center supports faculty who want to improve teaching through the use of technology. Audiovisual Services also designs, installs and maintains technology-enhanced general purpose classrooms, offering permanent in-room projaction, sound reinforcement and a sophisticated media retrieval system. It also provides rental of public address systems for campus events.

Bierce Library houses the Distance Learning Classroom on the second floor. This is a state-of-the-art facility that permits the University to offer credit and non-credit classes to area schools, agencies and businesses.

Network and Communication Services provide more than 500 dial-in lines for faculty, staff and students to use with their computers and modems from home to access UA and Internet networks. Additionally, in the very near future all students having access to the local area cable provider will be able to contract for Road Runner services at a reduced rate. Watch our home web page for further information regarding this exciting service.

UA's computer network, names UAnet, has about 4,000 computers connected on campus. To use these services, faculty, staff and students should go to the Technology Learning Support Center, at Bierce Library, room 69 to obtain a UAnet ID. The network provides access to:

- ZipLINK UA's library catalog
- OhioLINK the library catalogs of all State of Ohio universities and colleges.
- Electronic Mail (e-mail)
- The Internet: a world-wide network, including the popular World Wide Web (www) multimedia information protocol
- · Usenet news groups
- Discussion lists
- Wayne College
- IBM mainframes and Digital servers

Student information is available using the web, the following services are provided using this dynamic resource:

- Registration for classes
- Personal financial aid information
- Course grades
- · Fee payment by credit card

Other services provided to the campus by the Network and Communication Services section include:

- Cable Television ZIP-TV
- Telephone and voice mail services
- Security systems
- Cable plant management
- Cable television and network connections to residence hall rooms in Bulger, Grant, Garson, Gallucci and the Townhouses

The VPCIO Division continues in its quest to bring staff and students the most upto-the-minute advance in computer applications, research, knowledge and training.

Visit our website at http://GoZips.uakron.edu/is for more information.



Student Affairs Campus Safety and Security Information Cocurricular Activities

Student Affairs

Charged with the responsibility of helping our diverse student body to maximize the total benefit that college offers them, Student Affairs provides services that promote the academic, social, cultural, personal and physical growth and development of the student. Sensitive to the changing needs of today's college student, this division is committed to helping students meet their individual academic goals.

This responsibility will be accomplished by our commitment to these objectives:

- Creating a civil, supportive learning environment,
- Providing academic support systems to increase student retention and encourage satisfactory educational progress,
- · Celebrating diversity within the campus community,
- Collaborating with all constituencies within the University to increase enrollment and improve the quality of the student experience,
- Encouraging students to assume responsibility for their educational decisions and experiences,
- Identifying and addressing evolving student needs in a changing environment, and
- Addressing the needs of greater community constituencies through programs, services, and other resources.

The following section outlines Student Affairs units and the services offered to students.

ACADEMIC ACHIEVEMENT PROGRAMS

The **Upward Bound Program** is designed to provide intense academic, cultural and social experiences for its students, enabling them to develop the skills, attitudes and motivation necessary to enter and succeed in college. Students receive an assortment of services such as academic support, counseling, and advising and participate in the program year round. Upward Bound is federally funded through the United States Department of Education. It is a Federal TRIO Program.

The **National Youth Sports Program (NYSP)** is an instructional program for eligible boys and girls that provides a constructive outlet for the summertime energies at no cost to the participants. The program uses sports instruction and competition as a vehicle for motivating young people from poverty areas to earn and learn self-respect. The program provides participants with instruction in career and educational opportunities and exposure to the college environment. Each participant receives a free medical examination, and follow-up if necessary. Each participant daily receives a free meal or snack. The aim of the NYSP is to help eligible youths learn to "walk tall—talk tall—stand tall."

The **Pre-Engineering Program** is designed to encourage and stimulate the interests of targeted high school students who have expressed or demonstrated interest and skill in mathematics or science to pursue careers in engineering.

The **Educational Talent Search Program (ETS)** provides services to eligible youth and adults to assist them in enrolling or re-enrolling in postsecondary education. The program serves Akron Public Schools students grades 6-12 and adults from the community, via workshops, newsletters, field trips and personal appointments. The program helps participants prepare for college, including assistance with college preparation, selection, admissions and the financial aid application process. Funded by the U.S. Department of Education, this is a federal TRIO program.

The Firestone Fellows **Strive Toward Excellence Program (STEP)** is a pre-college preparatory program designed to assist students who aspire to attend college. STEP selects students in grade six. Designated as "Firestone Fellows," they participate in STEP for two years and then move into the University's Upward Bound Program, which assists them through high school. Program graduates are guaranteed admission to The University of Akron and granted scholarship assistance. The program serves students who attend Akron Public Schools.

The **Upward Bound Regional Math/Science Program** is designed to provide students with the skills and motivation necessary to pursue and complete an undergraduate course of study, preferably in mathematics or the sciences. Focusing on polymer science, the program serves 40 students in the target states of Indiana, Pennsylvania, Ohio and Michigan. The six-week summer residential program consists of integrated instructional classes in Polymer Science/Chemistry, Mathematics, English/Technical Writing and Computer

Science plus hands-on laboratory courses in Polymer Science and Computer Science. Other components include: a Research Project, Career Exploration, field trips, cultural experiences, recreational activities, college visits and mentoring by polymer science professors. Emphasis is placed on visualization and "doing" science and math utilizing hands-on projects, independent research, faculty interaction and mentoring while taking advantage of the resources of the world's largest, state-of-the-art polymer instructional and research facility at The University of Akron. Funded by the U.S. Department of Education, this is a Federal TRIO Program.

The **McNair Scholars Program**, one of the Federal TRIO Programs, is designed to prepare undergraduates for doctoral study. Named after Ronald E. McNair, the astronaut who died in the 1986 Challenger explosion, the program prepares undergraduates who are juniors and seniors for doctoral work in mathematics, the sciences and engineering. The program is coordinated through Student Affairs, the College of Engineering, and the Graduate School. University of Akron professors volunteer to mentor the McNair students. The students participate in summer research internships and a series of work-shops designed to prepare them for graduate school.

Gaining Early Awareness & Readiness for Undergraduate Programs (GEAR UP) provides a comprehensive range of early college awareness services to students at Riedinger Middle School. Community and corporate partners provide additional leadership and resources. GEAR UP Akron works with students through high school and will assist in their college placement.

COUNSELING, TESTING, AND CAREER CENTER

The Counseling, Testing, and Career Center provides a wide range of psychological counseling, testing, career planning, outreach and consulting services to the University community. The Center is staffed by psychologists and psychology trainees. All of our psychological services are confidential and free to enrolled students. The Center is located in Schrank Hall North, with the Counseling Services in Room 152 and the Testing Services in Room 58. Phone numbers are: Counseling Services 330-972-7082, and Testing Services 330-972-7084.

Counseling Service

The Center's counseling service offers assistance in the following areas:

- Short-term personal counseling and therapy designed to address a variety of areas. Areas of concern may include (but are not limited to) feelings of loneliness, inadequacy, guilt, anxiety, and depression; alcohol and drug use; recovery from acquaintance or stranger rape; interpersonal relationships, especially with the immediate family, intimate relationships, and roommates; personality development, issues of oppression, identity, and self-esteern.
- Educational counseling relates to educational goals, motivation, attitudes, abilities, and the development of effective study habits and skills.
- Group educational programs, through the College Survival Kit, cover a wide range of topics which typically deal with improving grades, reducing test anxiety, planning careers, increasing wellness, and addressing personal issues; as well as providing support groups for minority students and others with a variety of concems. Brochures are available.
- Career counseling involves helping students make decisions on majors and career direction. It consists of discovering one's interests, needs, values, aptitudes, abilities and goals; relating these to the world of work; exploring appropriate major subject and career fields. Interest, aptitude, personality and values testing is available through individual and group counseling. Occupational information is available through reference books and computerized career guidance and information systems.

Testing Service

 A wide range of testing programs including college entrance examinations, career assessments, personality assessments, academic placement testing and some learning disability assessments are available to students.

Outreach and Consulting Service

 The Center's outreach and consulting service offers assistance to the larger university community by providing programs and workshops for a wide variety of campus groups. The Center regularly provides speakers for classrooms, residence halls, student organizations, and administrative offices. Topics include, among others, academic performance, wellness, sexuality, and appreciating cultural diversity.

THE CENTER FOR CAREER MANAGEMENT

The primary mission of the The Center for Career Management is to assist graduating students in their initiatives in seeking full-time employment and to provide guaranteed major-related experiential learning opportunities prior to graduation for every student regardless of academic major or degree level under the newly created Career Advantage Network program.

The Center for Career Management is located in Schrank Hall North Room 153, 330-972-7747, http://www.uakron.edu/placement/.

Placement Services

Placement Services for graduating students include on-campus interviews with representatives of businesses, industries, education, branches of the government and the military. In addition, workshops are offered on Resume Writing, Cover Letters, Interviewing Skills, and the Self-Directed Job Search throughout the fall and spring semesters. Personal career consultation may be scheduled with placement advisors. A reference library of employer literature, videotape presentations and numerous career and job reference materials is also available. Other services to registrants include computerized job referrals and the maintenance and distribution of students' credential files. The Center for Career Management also sponsors Career Fairs, which give students the opportunity to meet and speak with a large number of potential employers.

Experiential Learning

The Career Advantage Network is a new program at The University of Akron for students entering the University summer or fall of 2001. The program benefits employers, who state that they are looking for students with career-related experiences in their field of study, as well as students who gain firsthand knowledge of their future careers and make important contacts that can result in a full time position or aid in the job searches following graduation.

Experiential learning may include cooperative education, practicums, internships, clinical/field-based experiences, student teaching, service learning, as well as other experiences that include clear, major-related goals and means to evaluate goal performance.

Cooperative education combines classroom learning with paid work experience. Qualified students are placed in career-related preprofessional work assignments in industrial, commercial, professional, governmental, or service organizations. The co-op program enhances a student's education and career preparation by integrating classroom theory with on-the-job performance; providing an opportunity to test career and professional goals; and encouraging the developing self-confidence and maturity. The cooperative eduation experience also helps develop skills in human relations and it affords the student the opportunity to establish professional contacts and interests.

Students in good academic standing are eligible for work assignments. They must have completed half of their academic requirements, have attended an orientation program, and have been accepted by the appropriate coordinator in their respective fields. Some departments or employers may require additional standards. The employers select candidates and make final hiring decisions. Students and employers participating in cooperative education are subject to all federal, state and local lavor laws. Additionally, students on work assignments must abide by all the rules and regulations of the participating employer and of cooperative education.

Participating students are recognized as full-time students at The University of Akron when working on an approved cooperative education field assignment and when complying with the rules and regulations of the cooperative education programs. The Cooperative Education Program is located in the Center for Career Management, Schrank Hall North, Room 153, 330-972-7747.

Other specialized cooperative education programs exist on campus. The Cooperative Engineering Education program is located in Auburn Science and Engineering Center 203, 330-972-7818. The College of Business Administration Cooperative Education Program is in CBA 260, 330-972-7827.

Internships are another major source of experiential learning. Internships normally consist of short-term supervised work experiences in a student's field of interest for which the student may earn academic credit. Students work with their internship coordinators in their respective colleges to develop these experiences.

GARDNER STUDENT CENTER

The Gardner Student Center, located in the center of campus, serves the students, faculty, and staff, and is one of the University's major assets in meeting the University-wide goal of public service. This busy facility houses various food service facilities, meeting rooms, lounges, Gardner Theatre, student organization offices, recreational facilities, Computer Solutions — The University of Akron's computer technology store, the DocuZip Copy Center, a bank, Ticketmaster/Film/Fax Center, the Information Center and a bookstore. Visit our Website at http://www.uakron.edu/gardner.

- Food Areas in the Gardner Student Center offer a variety of food items. On the first level, the Chuckery features the services of a fast-food operation, a pizza shop, and an ice cream and yogurt shop. For more of a cafeteria-style offering, the Hilltop, on the second level, provides deli-style selections at Sara Lee's, as well as full catering for banquets and meals.
- Gardner Theatre, located on the upper level, screens first- and second-run movies and is open to the public.
- The Game Room, located on the lower level of the Gardner Student Center, is
 open six days a week for the convenience of the University family to enhance
 free time activity. The Game Room offers eight bowling lanes, 16 billiard
 tables, foosball, and a variety of video games. For the competitive individual,
 tournaments in many of these recreational activities are programmed each
 semester by the Game Room staff.
- Computer Solutions, The University of Akron computer technology store, is located in Gardner Student Center Room 102. As an education reseller, personal computer hardware, peripherals, and software are available at educational pricing. The store is a service for students, faculty and staff. In addition, the store is a point of contact for other services, such as requesting a university network ID (UANet ID) or requesting a network connection for the residence halls.
- The DocuZip Copy Center, located in the lobby of Gardner Student Center offers the following services: copying, including color, oversized and reduced copies; binding of materials; mailing facilities for campus and U.S. mail; literature distribution; and class support files.
- The Ticketmaster/Film/Fax Center, located in the lobby of Gardner Student Center 330-972-6684, sells tickets to most events in northern Ohio, including Blossom Music Center, The IX Center, Playhouse Square, Public Hall, and the Jacobs Field and Gund Arena. Over-the-counter sales include tickets to campus functions, including sporting events, and to local shows. Film and film processing services are also available.
- The Information Center, located in the Gardner Student Center lobby, is operated Monday - Saturday. The Information Center staff can answer questions regarding departments and student organizations, on-campus and off-campus events, and the Metro buses and University Bus Loop. The Information Center staff can also print student class schedules. Please call 972-INFO if you need a question answered.
- The Bookstore at The University of Akron is operated as a service of Barnes & Noble Bookstores, Inc. of New York City. Bames & Noble operates 300 other college stores. The primary purpose of the Bookstore is to make available books and supplies required for course work. In addition, the store also carries a wide range of classroom supplies, paperbacks, engineering and art supplies, greeting cards, University memorabilia, clothing and other sundry items.*

OFFICE OF ACCESSIBILITY

The University welcomes students with disabilities. The mission of the Office of Accessibility is to provide equal access opportunities to students with disabilities and coordinate academic accommodations, auxiliary aids, and programs to enable students with disabilities to maximize their educational potential. The office encourages students to contact us to find out more about our programs and services. For more information, call 330-972-7928 (voice) or 330-972-5764 (TTY) or visit Spicer Hall 124. The Office of Accessibility is scheduled to move to the Student Administration Building at 185 East Mill Street by January, 2002.

OFFICE OF INTERNATIONAL PROGRAMS

In support of The University of Akron's Master Academic Plan to internationalize the university experience, the Office of International Programs undertakes the following:

- · To provide admission services to all prospective undergraduate and graduate international students who wish to study at The University of Akron.
- · To aid in the transition/integration of international students, scholars, and scientists through the provision of services, such as providing orientation programs, immigration counseling, and undergraduate academic advising.
- · To provide information and counseling services for The University of Akron students who wish to study, work, travel abroad.
- · To develop and support campus and community resources and activities designed to promote international understanding and appreciation of cultural diversity both on and off campus.
- · To assist faculty and/or departments who have an interest in establishing exchange agreements abroad.
- To facilitate contacts between The University of Akron faculty members and departments with their foreign university contacts to assure that meaningful, mutually beneficial, reciprocal agreements are maintained.

For further information, contact:

Office of International Programs The University of Akron Polsky Building, Room 483 Akron, OH 44325-3101 330-972-6349 Phone 330-972-8604 Fax international@uakron.edu E-mail http://www.uakron.edu/oip/

RESIDENCE LIFE AND HOUSING

The Department of Residence Life and Housing is administratively responsible for managing the University's student housing program. The University provides reasonably priced, clean, convenient and secure residence hall facilities. In addition, the residence hall program is committed to providing a meaningful living/learning environment which directly supports the educational, social, and personal development of each student.

Freshman Residential Policy Requirement

The University of Akron is committed to providing a learning environment supportive of its academic mission complementary to its academic programs. The University acknowledges that national studies find that first-year freshman uniquely benefit from a residence hall experience. Social integration and access to faculty, staff, and institutional resources are enhanced through an on-campus residential experience. The University considered and accepted the findings that living on-campus positively influences academic persistence and success, including degree completion. For all these reasons, all first-year freshman students at The University of Akron are required to reside in University residence halls for the duration of their freshman academic year at the University.

Upon admission to the University, all first-year freshman students will be required to make application for residence in the University housing and will be assigned and assessed appropriate room and board fees, so long as space is available and/or unless the student is subject to one of the exemptions below:

Exemptions to the Freshman Residential policy would include:

- permanent home residence with parents or legal guardians who reside in: Summit, Portage, Stark, Wayne and Medina counties
- registered for fewer than 6 credit hours
- 21+ years of age
- military experience 1+ years
- married (proof of marriage required)
- student is parent with custodial care responsibilities (proof of custody care required)
- other extenuating circumstances, including but not limited to, special dietary needs or conditions, cultural or religious needs or accommodations, undue hardship, or any other circumstance(s) in support of an exemption which, if not granted, would undermine or contravene the purpose of the Freshman Residential Requirement Policy.

Students seeking exemption from the Freshman Residential Policy should contact the Department of Residence Life and Housing (330-972-7800) to request the Freshman Residential Requirement Policy and Exemption Procedures and Petition packet.

The Department of Residence Life and Housing supervises and manages 12 oncampus residence hall facilities accommodating approximately 1,940 students. Students are encouraged to apply for residence hall accommodations as soon as possible after being admitted to the University. Housing assignments and honoring student preferences are determined by the student's housing application date.

Once admitted to the University, new students may request a Contract for Housing Accommodations and Food Service which must be returned with the prepayment (\$150) to reserve a residence hall assignment. The prepayment will be refunded to new students for Contract cancellations received before May 15; the prepayment is forfeited for cancellations received after May 15

Staff, supervised by the Department of Residence Life and Housing, reside in each hall. A professionally trained Residence Life Coordinator is assigned to each complex, and selected upperclass students are appointed to serve as Resident Assistants (RA's), who are assigned to each floor of every residence hall. Staff are available to residents to guide and direct those having questions about University resources, services and programs. In addition, residence hall staff and student governance councils sponsor social, cultural, recreational and educational event, and activities exclusively for residents.

All undergraduate residence halls are fully air-conditioned and offer a variety of room configurations, ranging from traditional, two-person rooms to suite-style and apartment accommodations with private baths and kitchens. Student rooms are furnished with beds, desks, desk chair, closet storage, limited lighting, and window coverings. Most students augment University-provided furnishings with personal possessions to enhance bedroom/study room areas. Residence hall students are not permitted to have pets on campus.

Every residence hall student is provided with a voice mail box account. All residence hall rooms have cable television and ethernet capability. Each residence hall is equipped with coin-operated washers and dryers. Most residence halls have study areas and lounges. Residential students may have automobiles and must purchase and display a University parking permit.

Proposed Room and Board Rates - 2001-2002

Residence hall room and board rates for 2001/2002 are listed below. All rates quoted include room and board fees for the full academic year (vacation periods excluded). Freshmen are eligible for assignment to all residence halls except University Apartments and Townhouses.

BROWN STREET/BULGER/GALLICCI/ORR/RITCHIE/SISLER/MCFAWN/SPANTON

ROOM			
RATES	BOARD PLAN	RATE	TOTAL
3,550.00	10 Meal Traditional	1,896.00	5,446.00
3,550.00	10 Meal Gold	2,050.00	5,600.00
3,550.00	15 Meal Traditional	2,000.00	5,550.00
3,550.00	15 Meal Gold	2,240.00	5,790.00
3,550.00	19 Meal Traditional	2,050.00	5,600.00
3,550.00	19 Meal Gold	2,328.00	5,878.00
GRANT / TOW	NHOUSES / UNIVERSITY A	PARTMENTS	
ROOM			
RATES	BOARD PLAN	RATE	TOTAL
3,660.00	10 Meal Traditional	1,896.00	5,556.00
3,660.00	10 Meal Gold	2,050.00	5,710.00
3,660.00	15 Meal Traditional	2,000.00	5,660.00
3,660.00	15 Meal Gold	2,240.00	5,900.00
3,660.00	19 Meal Traditional	2,050.00	5,710.00
3,660.00	19 Meal Gold	2,328.00	5,988.00
3.660.00	\$300 Dining Dollars	600.00	4.260.00*

Available to Townhouse residents only

\$300 Dining Dollars

For information on Residence Hall Refunds, please see the heading under Fees and Expenses in **Section 3** of this Bulletin.

Vacation Housing

Most University residence halls are closed for Thanksgiving break, Winter break, and Spring break. However, students anticipating the need for on campus housing during any or all of the academic year semester break periods should request assignment to Gallucci Hall, Grant Hall, Ritchie Hall, Townhouses, or University Apartments. Vacation housing will be \$12 per night.

Summer Housing

Residence hall housing is available during summer sessions on a limited basis. Summer 2001 room rates for Interim session will be \$324; each five week session will be \$396; and each eight week session \$648. These rates do not include food service Residence hall dining service is not available during summer sessions, but food service is available at Gardner Student Center.

Dining Service Meal Plans

All students are eligible to open an "All Campus Account" by depositing money at the Zip Card Office located in the Gardner Student Center. All residence hall students are required to participate in the University Meal Plan options except residents of University Apartments. The University ID Card, "The Zip Card," is activated as a debit card. The card may be used for Food Service at Robertson Dining Hall, Sara Lee Sandwich Shoppe, Tomassito's/Texa Cantina/Hoppy's, Gardner Express, The Martin University Center, and Gallucci Hall's Break Point Convenience Center and the Crystal Room.

The card may also be used for purchases at the Barnes and Noble Campus Bookstore and the Docu-Zip Copy Center at the Gardner Student Center.

Meal Plans are 19, 15 or 10 Meal Traditional; 19, 15 or 10 Meal Gold; or All-Campus Supplemental Plan.

Traditional Meal Plan provides "all you can eat" meals served at Robertson Dining Hall. Breakfast, lunch and dinner are served Monday through Friday. Brunch and dinner served Saturday and Sunday. All unused meals at the end of the each week are forfeited.

The **Gold Meal Plan** provides "all you can eat" meals served at Robertson Dining Hall. Breakfast, lunch and dinner are served Monday through Friday. Brunch and dinner served Saturday and Sunday. Students are provided a credit for unused meals in "Dining Dollars." Dining Dollars may be spent at any University operated snack bar or restaurant in campus. Dining Dollars carry over from week to week but are forfeited at the end of each semester.

All-Campus Supplemental Plan may be added to any meal plans in increments of \$150 or \$250 payable at the Zip Card Office. "All-Campus" plan may be used for books, photocopying and food service. These additional deposits to the meal plan account are fully refundable to the student and may be carried forward semester to semester, year to year. The card my also be used for purchases at the Barnes and Noble Campus Bookstore and the Docu-Zip Copy Center at the Gardner Student Center.

Residence Hall Program Board

The Residence Hall Program Board (RHPB) is a students-administered programing organization which provides leadership training and a variety of social activities for residence hall students. The RHPB administratively includes four subcommittees (Major Events, Music and Comedy, Publicity and Technical). RHPB sponsors an array of activities such as Welcome Weekend, Little Sibs Weekend, Hall Fest, a coffeehouse series; talents shows, Residence Life Cinema and road trips. In 1997, 1998 and 1999 RHPB was named best program board in the nation by the National Association for Campus Activities. For the past three years, NACA Great Lakes Region named The University of Akron "School of the Year." In 2000, The University of Akron was named "National School of the Year" by Campus Activities Magazine.

Residence Hall Council (RHC)

The Residence Hall Council (RHC) serves as the student government for residence hall students. The purpose of RHC is to facilitate communication among students, faculty and administration; to provide programs and services for the residential student community; and to plan educational, cultural, and community service activities for residence hall students. The RHC consists of an executive committee and representatives from each residence hall. In addition, each residence hall has its own hall government responsible for supporting and enriching the residence hall environment and sponsoring programs and activities for residents.

Likewise, RHC is an award winning organization. This group and The University of Akron were named "School of the Year" for 2000 by the National Association of College and University Residence Halls (NACURH).

University Residence Halls

Brown Street (men) Bulger Hall (coed) Gallucci Hall (coed) Grant Hall (coed) Joey Hall Orr Hall (women) Ritchie Hall (coed) Sisler/McFawn (women) Spanton Hall (coed) Townhouses (coed) Wallaby Hall (coed) 333 S. Union Street
265 E. Buchtel Common
200 E. Exchange Street
151 Wheeler Street
412 Vine Street
188 S. College Street
269 Buchtel Commons
211 E. Center Street
190 S. College Street
Sherman and Grant streets
323 S. Union Street
420 Vine Street

Residence Hall Access

Access into University residence halls is restricted to student occupants, escorted guests, and authorized University personnel. Unescorted persons are not permitted in the residence halls at any time. Twenty-four (24) hour guest visitation is permitted in all residence halls. However, students may vote to restrict visitation hours if desired.

Except for Gallucci and Ritchie halls, where administrative offices are housed, all residence halls are locked on a continuous basis. During weekdays, Gallucci Hall is locked between 11:00 pm and 8:00 am. In addition, most residence halls operate 24-hour reception areas. Beginning at 8:00 pm in all residence halls except University Apartments and the Townhouses, guests must present identification as a requirement for building entry. Residents may enter at their own discretion but must also present identification when registering guests after 8:00 pm. Each resident has access to his or her own building and room with keys or access cards. The Residential Life staff receives specialized training from University police on security and safety procedures and enforcement of residence hall regulations.

The Residence Life staff conduct educational programs for residents to heighten awareness of safety and security concerns. Sessions include topics from personal safety to sexual assault. The University police department patrols all residence halls during the evening and early morning hours.

SIXTY-PLUS (60+) PROGRAM

Developed in accordance with State Law 3345.27, passed in 1976 and amended in March 1999, the Sixty-Plus program provides residents 60 and older the opportunity to audit credit classes or take courses for credit on a space-available, non-tuition basis.

To qualify for the Sixty-Plus Program, the prospective student must be 60 years of age or older and have resided in the State of Ohio for at least one year.

Sixty-Plus students are exempt from payment of tuition and general service fees but are expected to pay for any books, special fees, laboratory or instructional fees and parking, if needed. Auditing allows students to attend classes, but college credit is not awarded.

Sixty-Plus participants may enroll for 11 or fewer credits unless request to enroll in a greater number of credits is approved by the Senior Vice President and Provost. Participants in this program may be prohibited from enrolling in certain courses or classes for which special course or training prerequisites apply or in which physical demands upon students are inappropriate for imposition upon persons 60 years of age or older, or in which the number of participating regular students is insufficient to cover the University's or college's course-related expenses as determined by the University.

Space availability is determined after the degree-seeking students have registered. Sixty-Plus registrations are held immediately before the start of each term, and participants must register in-person.

Sixty-Plus participants are subject to the same disciplinary and/or governance rules affecting all students.

A Sixty-Plus student will be issued a Student ID Card which will permit them to use specific University facilities and services and obtain student rates for purchases of goods and services.

To be eligible to enroll in a course for credit, the student's family income must be less than 200 percent of the Federal poverty guidelines as revised annually by the U.S. Secretary of Health and Human Services for a family size equal to the size of the family of the person whose income is being determined.

For further information regarding course selection, guidance, and/or registration, contact the Adult Resource Center at 330-972-7448 or 330-972-8535.

STUDENT FINANCIAL AID

This office serves students who may need financial assistance to attend the University. Walk-in counseling is available by professional staff during all office hours.

A detailed statement regarding all financial assistance programs can be found in **Section 3** of this Bulletin.

STUDENT HEALTH SERVICES

٠,

The goal of Health Services is to assist students to achieve their educational and personal goals by addressing their health care concerns while they are enrolled at The University of Akron. Health Services provides primary care, minor urgent care and health promotion education. Health Services is located in Robertson Dining Hall, immediately adjacent to the North Quad residence halls. Health Services is open from 8:00 a.m. to 5:00 p.m. Monday through Friday.

The student who becomes seriously ill or suffers a serious injury on campus should be taken to an emergency room of one of the local hospitals without delay. Those persons present in this kind of emergency should call University Police or 911 immediately. The University assumes no legal responsibility or obligation for the expenses of such transportation or for medical services at the hospital.

Student Health and Accident Insurance, designed specifically for students, is required of all residence hall students and all international students except those who present proof of similar coverage. Other students may purchase this insurance at the annual individual rate. The student insurance provides coverage for such items as hospitalization, surgical benefits, and in-hospital medical benefits.

Completed health forms and other health-related records are treated as confidential and are kept in the Student Health Services offices. For more information, contact Health Services at 330-972-7808 or visit the office website at http://www.uakron.edu/health/.

STUDENT DEVELOPMENT

The mission of the Office of Student Development is to enhance the out of-class learning environment for students by providing a wide variety of programs, services and resources. For students who want to be involved, the Office of Student Development is the place to start. Located in Gardner Student Center 104, Student Development coordinates the registration, budgeting and development of more than 200 current student organizations as well as the coordination of students attempting to form new groups. The office advises registered student organizations on program planning and promotion, membership recruitment and retention, budget management and many other organizational development areas.

Student Development encourages the development of leadership skills through programs such as leadership roundtables, the annual Leadership academy, Leadership Awards, participation in the Northeast Ohio Leadership Association, and the All-Campus Recognition Dinner.

Additionally, Student Development maintains a campus-wide calendar of events and programs. For further information, visit this calendar at www.uakron.edu/calendar.

For additional information, contact the Office of Student Development by phone at 330-972-7021, by email at osd@uakron.edu, or visit the office website at www.uakron.edu/studdev/.

Student Conduct

The University of Akron has the responsibility to protect the rights, health and safety of our academic community to ensure that members of our community may pursue their educational goals without undue interference. The goal is to bring about outcomes that are positive for all parties involved. To this end, you are expected to familiarize yourself with the identified standards for appropriate behavior and scholarship whenever on or affecting persons or property owned, leased or operated by The University of Akron. The development and enforcement of standards of conduct for students is an educational endeavor which fosters students' personal and social development. You are expected to abide by applicable federal, state, and local laws and may be held accountable for any violations in which you are involved. The Office of Student Conduct is the agent that receives and investigates complaints that allege violations of the University's Student Code of Conduct. Confidentiality is maintained and records of proceedings are released only on written authorization of the student involved. All hearings are fundamentally fair and respect the rights of the individuals involved. By becoming familiar with the definition of student misconduct, students can be fully aware of their rights and responsibilities as a student at The University of Akron and have a successful, rewarding experience

Students are advised to become aware of the disciplinary procedures published in the University Rules and Regulations Concerning Campus Conduct and Student Discipline Procedures (Student Code of Conduct). The Student Code of Conduct can also be accessed by visiting www.uakron.edu/studdev or visiting the Office of Student Conduct, Gardner Student Center 104 for your free copy. For more information regarding the Student Code of Conduct, please contact the Office of Student Conduct at 330-972-7021.

Campus Safety and Security Information

SAFETY AND SECURITY

This information is provided as part of The University of Akron's commitment to safety and security on campus and is in compliance with the Federal Crime Awareness and Campus Security Act of 1990.

THE CAMPUS

The University employs many people to keep the campus safe and secure. The Division of Public Safety provides for student and employee safety and security through the departments of University Police and Environmental and Occupational Health and Safety. Student Affairs is responsible for security and safety policies governing residence halls, fraternities, and sororities and for teaching students about security and crime prevention.

It is the intent of the University to continue and enhance current safety and security education and awareness programs throughout the year. The purpose of these programs is to assure that the campus community frequently receives information and instruction on University crime and safety policies and procedures, and on drug and alcohol control and prevention.

A safe campus can be achieved only with the cooperation of the entire campus community. The University hopes students will read and become familiar with this material and be responsible for their own safety and the security of others.

UNIVERSITY POLICE

Campus law enforcement is primarily the responsibility of The University of Akron Department of Police. University police provide 24-hour-a-day patrol protection to the campus, parking lots, residence halls, and on-campus fratemity and sorority houses. The police station is located in the Physical Facilities Operation Center at the corner of Hill and South Forge streets and is staffed 24 hours a day.

The University's 32 police officers are commissioned by the State of Ohio with full law enforcement authority and responsibilities identical to the local police or sheriff. The UA Police Department works closely with the Akron Police Department and other law enforcement agencies. Reports are exchanged every business day so that both agencies receive pertinent information. Information is shared through personal contacts and by phone and radio. University and City of Akron police regularly work together at large campus events such as athletic competitions and dances.

UA Police officers have met or exceeded the training standards of the Ohio Peace Officers Training Council. They also receive ongoing in-service and specialized training in first aid, CPR, firearms, defensive tactics, legal updates, and other skills.

UA Police officers enforce laws regulating underage drinking, the use of controlled substances, weapons, and all other incidents requiring police assistance. They also are responsible for public safety services such as crime reports, medical emergencies, fire emergencies, and traffic accidents.

Incidents which may not rise to the level of a violation of law are referred to the Office of Student Conduct. The Student Code of Conduct Manual explains the University's disciplinary process and is available through the Office of Student Conduct.

It is the goal of every member of the University Police Department to promote, preserve, and deliver feelings of safety and security through quality services to the members of the University community.

DRUG AND ALCOHOL PREVENTION

The issue of drug and alcohol abuse concerns the entire University community as well as our surrounding neighborhoods. The federal Drug Free Schools and Communities Act Amendments of 1989 require schools, colleges, and universities receiving federal financial assistance to implement and enforce drug and alcohol prevention programs for students and employees.

The University of Akron prohibits the illegal use, possession, sale, manufacture, or distribution of drugs and alcohol by all students and employees on University premises or as part of any University activity. Any misuse of substances by University students and employees that presents physical or psychological hazard to individuals also is prohibited.

It is the responsibility of The University of Akron to adopt and implement a drug prevention program for its students and employees. The University as an institution, and each of us as individuals, must eliminate the use of illicit drugs and alcohol that contribute to the unrecoverable loss of time, talent, and lives.

CRIME PREVENTION

Through the Office of Crime Prevention, University police officers provide educational programs to students and employees on personal safety, sexual assault/acquaintance rape prevention, drug and alcohol abuse prevention, and related topics. The University Police Department welcomes the chance to talk with any campus group. Candid dialogue between UA Police and the public has created greater confidence in the community to report unlawful activities. These programs are scheduled when requested.

Potential illegal actions and on-campus emergencies can be confidentially reported by any student, faculty, or staff member. Complaints received by UA police which fall outside their jurisdiction will be referred to the appropriate agency, or the complainant will be provided a phone number where the complaint can be filed. Likewise, other agencies refer complaints to University Police when appropriate. The University Police encourage the prompt reporting of crimes.

Security considerations in maintenance are a high priority.

Police officers patrol parking lots 24 hours a day. UA police also offer assistance to motorists with battery jumps, inflating tires, unlocking vehicles, and obtaining fuel for a small fee.

To request nonemergency assistance, call extension 7123. To schedule an appointment for an educational program, call extension 7123.

For emergencies, dial 911 from any campus telephone.

Student Campus Patrol

A student escort service operates 5 p.m. to 1 a.m. seven days a week for the safety of anyone walking alone on campus during the evenings. By calling extension 7263, an escort will come to the student's location and accompany him/her to any campus building or parking lot.

Employed and trained by The University of Akron Police Department, the campus patrol teams are easily identified by labeled blue jackets, or marcon t-shirts. These teams assist the University police in patrolling campus parking lots and other campus areas and report suspicious individuals or activities directly to the police dispatch center.

Emergency Phones

Yellow or red emergency phones are directly connected to the UA Police Department. These phones are strategically located throughout campus pedestrian walkways and inside parking decks. Police respond to the activation of any emergency phone receiver, even if no words are spoken.

Outdoor security phones are at the main entrances of all campus residence halls. UA Police and other campus numbers can be dialed on these phones.

If using an off-campus phone, dial 972 before the campus extension.

Emergency Phone Numbers

Call extension 911 on campus to reach UA police immediately.

Police	.7123
Campus Patrol	.7263
(Police Nonemergency)	8123
Environmental and Occupational Health and Safety	6866
Fire	.911
FireEMS/Medical	911 911
Fire EMS/Medical Electrical/Plumbing	911 911 7415
Fire	911 911 7415 8123

Emergency numbers are monitored 24 hours a day. If calling from an off-campus phone, dial 972 and then the four-digit number you wish to reach. Use 911 for emergencies when dialing from all campus extensions.

Campus Buildings

Most University academic facilities are open to the public from 7 a.m. until the latest evening classes let out. Administrative buildings are generally locked at 6 p.m. When the University is closed, all buildings are locked and may be opened only by authorized personnel.

Health and Safety

Members of the Department of Environmental and Occupational Health and Safety routinely inspect the campus for environmental and safety concerns. The Department of Physical Facilities maintains University buildings and grounds and regularly inspects facilities and promptly makes repairs to ensure safety and security. University Police work with both units to respond to reports of potential safety and security hazards, such as broken windows and locks. UA police also work with physical facilities personnel to help maintain adequate exterior lighting and safe landscaping practices.

Personal Responsibility

The cooperation and involvement of students, faculty, and staff in any campus safety program is absolutely necessary. All must assume responsibility for their own safety and security of their property by following simple, common sense precautions. For example, although the campus is well-lighted, everyone should confine their movements to well-traveled areas. There is safety in numbers, and everyone should walk with a companion or with a group at night. Valuables should be marked with a personal identification number in case of loss or theft. Bicycles should be properly secured when not in use. Automobiles should be locked at all times. Valuables and purses should never be lying in view in a car but locked in the car trunk for safekeeping.

Crime Statistics

The University of Akron Police Department prepares monthly statistics for the Federal Bureau of Investigation under the Uniform Crime Reporting (UCR) program. The serial numbers of property stolen on campus are reported nationwide through the National Crime Information Center. A LEADS computer terminal at the police station dispatch center allows information to be exchanged with law enforcement agencies across the United States and Canada.

Crime statistics can be found at the police department's website URL: <u>http://www.uakron.edu/police/crimeprev.htm</u>. A hard copy can be obtained at their office in the Physical Facilities Operation Center, 146 Hill Street.

Cocurricular Activities and Other Services

The variety of experiences gained through involvement in cocurricular and social activities during students' college years contribute to a more well-rounded University education beyond the classroom. Cocurriculars are those activities that allow students the opportunity to develop emotionally, physically, politically, academically, socially, and spiritually, and include intercollegiate and intramural sports, student publications, honor societies, departmental organizations, special interest groups, university-wide programming committees, student government, and liberal arts activities. Participation in cocurricular activities provides students with an opportunity to meet new acquaintances, network with professional contacts, broaden the classroom experience, and develop marketable leadership skills for a career search. Studies show that involved students have a higher rate of retention.

Eligibility in the 200-plus registered student organizations and other cocurricular activities is dependent on the student's maintenance of academic good standing at the University. Some selective organizations such as honoraries and varsity athletics require special eligibility criteria.

PERFORMING AND VISUAL ARTS

Opportunities are abundant for students to develop the ability to face the public through such live audience performances as plays, debates, recitals, and dance, as well as media presentations through radio, television, and film.

A student who aspires to act, write, or produce in theatre is encouraged to attend auditions and to apply for technical positions. The experimental theatre in Guzzetta Hall is distinguished by its flexible design. The Paul A. Daum Theatre in Kolbe Hall, with its intimate proscenium stage, is the scene for many University productions.

Those interested in mass media communication will find that Kolbe Hall contains fully equipped television and radio studios. A student may participate in the operation and broadcast of radio station WZIP (88.1 FM).

A University student interested in music may audition for membership in the Marching Band, Concert Choirs, Jazz Ensembles, Concert Band, the Symphonic Band, Musical Theatre and Opera productions, orchestra, or any number of small or specialized musical ensembles or clubs.

An additional opportunity in the area of performing arts is offered through dance, in the form of The University of Akron Dance Company, which works closely with the world-renowned Ohio Ballet.

The University Art Galleries present challenging and exciting contemporary exhibitions. lectures and events. The largest is the Emily Davis Gallery in Folk Hall, which showcases works by regionally and nationally known artists, as well as by outstanding student artists.

ATHLETICS

The University of Akron believes that intercollegiate athletics are an important and wholesome adjunct to the principal mission of the University, enhancing the physical well-being and health of its students and providing an opportunity to broaden their intellectual and social development. Accordingly, programs of both intercollegiate and intramural sports are provided. Participants in either program must be, first and foremost, full-time students whose fundamental aim is to obtain a sound education.

The University of Akron currently competes as a member of the Mid-American Conference in 18 NCAA Division I intercollegiate sports. The three athletic seasons include: Fall– football, men's soccer, women's soccer, men's and women's cross country, and women's volleyball; Winter-men's and women's basketball, men's and women's indoor track and field, women's swimming and diving, and rifle; Spring–women's fast-pitch softball, baseball, men's golf, women's tennis, and men's and women's outdoor track and field. The athletic program actively seeks participants from the campus population and annually attracts some 350 students for participation in the intercollegiate sports. Likewise the athletic department selects each spring a cheerleader squad and dance team from the campus community and incoming high school seniors.

Intercollegiate athletic programs enhance the educational opportunities of the students who participate in those activities. The men and women who are involved in intercollegiate athletic programs at The University of Akron are expected to maintain the academic standards required of all students at the University and adhere to applicable NCAA and Mid-American Conference regulations.

Students are admitted free to all regular season home intercollegiate contests with a validated I.D. Likewise, students who wish to work for the promotion of intercollegiate athletics on campus are urged to join the student sports committee (Zip Athletic Promoters).

Further educational opportunities in athletics can be pursued through the Director of Athletics Office, JAR 183, 330-972-7080.

STUDENT PUBLICATIONS

The Buchtelite is a student newspaper issued twice weekly during the academic year. It serves as the campus "voice" with news stories, interest columns, and photographs revolving around campus events. Copies of each edition are distributed to students free of charge at various campus locations. Students interested in becoming a member of the *Buchtelite* staff should visit the office located in Gardner Student Center, third floor.

The *Tel-Buch* is the University's yearbook with comprehensive editorial and photographic coverage of student life at The University of Akron. This impressive publication is free to students in attendance during the school year that the yearbook summarizes. The *Tel-Buch* office is located in the lower level of Gardner Student Center.

Akros Review is a literary journal of creative writing and art work primarily by students of The University of Akron and secondarily by artists and writers in the Northeast Ohio area.

DEPARTMENTAL ORGANIZATIONS

Academic departments sponsor organizations that provide social and educational programs and activities in special fields of study so that students may enhance and expand their knowledge of their academic field outside of the classroom. Guest speakers, community service projects, and career nights are often included in the calendar of programs. Joining a departmental organization allows students the opportunity to meet classmates with similar interests, to develop study groups, to network with the professional world, and to build a strong academic foundation for future career paths.

ASSOCIATED STUDENT GOVERNMENT

The Associated Student Government (ASG), the representative government for undergraduate students, provides services and forums to address student needs, participates in University governance, and decides budgetary allocations to undergraduate student groups. The ASG holds general elections in mid-March of each year to decide the student leadership for the following academic year. Student Government works to assess and fulfill the special needs of students, including Town Hall meetings, free tax services, issue forums and co-sponsorship of campus lectures. Freshmen can also become involved as a Freshman Senator through elections that occur in September. At the All Campus Recognition Dinner in April, ASG recognizes outstanding achievement by awarding Who's Who and A-Key awards. The ASG office is located in Gardner Student Center 127, 330-972-7002, http://www.uakron.edu/studdev.

GREEK AFFAIRS

Greek Life at The University of Akron is as unique as the college experience itself. The Office of Greek Affairs assists over 20 registered fratemities and sororities with a common founding principle of friendship, scholarship, leadership, and community service. Students may become involved by serving as president of an organization, playing intramural sports, participating in a leadership conference, sponsoring an alumni event, coordinating a fundraising project to benefit a local charity, tutoring disadvantaged children, or attending a social function or a Zip game. The opportunities for meaningful campus and community involvement in the Greek community are endless. Members of the Greek community are the most active segment of the student population. From this involvement, each student learns new skills and experiences personal growth and development. Studies have shown that members of Greek organizations have a higher rate of graduation and remain more active as loyal UA alumni than those who choose not to join fratemities and sororities. The Office of Greek Affairs is located in Gardner Student Center 210, 330-972-7909. Web address: http://www.uakron.edu/greeks.

UNIVERSITY PROGRAM BOARD

University Program Board (UPB) is the all-campus activities board responsible for providing educational, recreational, social and musical events for the campus community. A sample of UPB's programs includes Homecoming, Parents/Family Day, ZipFest, Diversityfest, a Forum Series speaker, Student Center Entertainment, Polsky Entertainment and other special events. The council is comprised of eight selected board members as well as numerous volunteer members on UPB's various committees. Membership is open to any student interested in developing organizational, leadership and management skills. UPB's office is located in the lower level of the Gardner Student Center. For more information, call 330-972-7014 or visit our website at http://www.uakron.edu/upb.

CENTER FOR CHILD DEVELOPMENT

The University of Akron Center for Child Development provides a variety of early childhood programs which are open to students, faculty, staff, and the community. The trained teaching staff provides a stimulating learning environment and opportunities for growth in all areas of development — social, emotional, physical and intellectual.

The Center for Child Development is open during the Fall and Spring semesters of the academic year between 7:30 a.m. and 6:00 p.m. Monday through Friday. The program offers hourly flextime and half-day programs for children three to five years old and toilet trained. Full-day sessions are available year round for children 18 months to five years old.

A summer pre-school flextime program is offered Summer sessions I and II.

A summer program is also offered for school-aged children. This program is offered during Summer sessions I and II from 7:00 a.m. until 6:00 p.m.

For more information call the Center for Child Development, 330-972-8210.

.

INTERFAITH COUNCIL OF MINISTRIES

The **Baptist Student Union** (BSU) is open to all students of various denominational backgrounds. A few of the opportunities available are Bible studies, community outreach service projects, socials, retreats, mission trips, and interaction with students around the country. For more information, call 330-794-6734 or see faculty advisor Dr. Ken Moore.

Campus Focus is the campus ministry of The Chapel, a non-denominational evangelical church. The purpose of Campus Focus is to help students develop their relationship with God; encourage students to be active in campus life and in the lives of others students.; and provide opportunities for them to connect with other Christians. The Gathering Place occurs on Sundays at 10:40 a.m. at The Chapel, located at the comer of Fir Hill and Buchtel. Also available on a weekly basis are small group bible studies, Sports Focus, and That Wednesday Prayer Thing. Call 330-376-6400, ext. 3330, for more information.

The **Greek Orthodox Church** provides a campus priest to students through The Greek Orthodox Church of the Annunciation at 129 South Union Street, 330-434-0000.

Hillel Jewish Students Union is a pluralistic community and is open to all students who are interested in enriching their lives Jewishly. The organization provides multiple services including religious celebrations, social activities, as well as educational and cultural events, both on and off campus. Hillel has a close relationship with the Jewish Law Students Association, the Jewish Community Center, and the local synagogues (Reform, Conservative and Orthodox). Call 330-678-0397 for more information, or visit the Hillel office, office #10, in the basement of the Gardner Student Center.

InterVarsity Christian Fellowship is an inter-denominational, student-led organization that is not formally affiliated with any denomination, but welcomes all students. The purpose of InterVarsity is to establish and advance witnessing communities of students and faculty who follow Jesus as Savior and Lord, growing in love for God, God's Word, God's people of every ethnicity and culture and God's purpose in the world. We provide weekly biblical teaching, prayer meetings, worship, fellowship, and ministry opportunities. For more information call 330-972-8007.

Newman Catholic Campus Ministry emerges from the Roman Catholic tradition and is open to all students who are interested in sharing in a Catholic community. We offer opportunities for individual and community spiritual development, personal leadership formation, and education for justice and community service. The Akron Newman Center is located at 44 University Avenue (top floor of St. Bernard's Ministry Offices). For information, call 330-376-3585.

DIRECTORY OF STUDENT ORGANIZATIONS

May 2001

Communications/Publications

Akros Review The Buchtelite Tel-Buch

Governing Bodies

Associated Student Government Interfraternity Council National Pan-Hellenic Council Panhellenic Council

Departmental

Accounting Association Akron Council of Education Students (ACES) American Society of Interior Designers Anthropology Club **Biology Club** Collegiate Nursing Club Computer Science Club Dean's Advisory Council Economics Club **Engineering Student Council** Fire Protection Technology Future Physicians Club Gathering of Potential Surveyors Geography and Planning Organization Geology Club Gerontology Association Honors Club Institute of Electrical & Electronics Engineers International Association of Administrative Professionals International Emergency Management Student Association Kappa Kappa Psi League of Black Communicators Literary Guild Management Information Systems Association Math Club Minority Business Students Association National Association of Black Accountants Organization for Children's Health Care Philosophy Club Society of Automotive Engineers Society of Physics Students Society of Students in Construction Society of Women Engineers Sociology Club Student Art League Student Dietetic Association Student Social Work League Student Toastmasters Tau Beta Sigma Terpsichore Theatre Guild Transportation Student Association

Honoraries

Alpha Kappa Delta (sociology) Alpha Mu Gamma (foreign language) Beta Alpha Psi (accounting) Beta Beta Beta (biology) Beta Gamma Sigma (business) Eta Kappa Nu (Zeta Zeta Chapter)

(electrical engineering) Golden Key National Honor Society Kappa Omicron Nu (family and consumer sciences) Mortar Board (leadership/scholastic) National Residence Hall Honorary National Society of Collegiate Scholars Omicron Delta Kappa (leadership/ scholastic) Order of Omega (interfraternity)

Phi Alpha Theta (history)
Phi Alpha Theta (history)
Phi Eta Sigma (freshmen scholastic)
Phi Theta Kappa (Community & Technical College)
Pi Delta Phi (French)
Pi Mu Epsilon (mathematics)
Pi Sigma Alpha (political science)
Psi Chi (psychology)
Rho Lambda (panhellenic)
Sigma Delta Pi (spanish)
Sigma Iota Epsilon (management)
Sigma Phi Omega (gerontology)
Tau Alpha Pi (engineering)

International

Bangladesh Students' Association Chinese Student & Scholar Association Chinese Student Association Hispanos Organizados por Lengua y Amistad (HOLA) Indian Students Association International Students Club Korean Student Association Lebanese Student Club Thai Students Organization Turkish & American Student Association

Military

Arnold Air Society Association of the U.S. Army Garfield's Own Rangers Sabre Drill Team

Political

College Democrats College Republicans

Professional

American Institute of Aeronautics & Astronautics American Institute of Chemical Engineers American Society for Training and Development (ASTD) American Society of Civil Engineers American Society of Mechanical Engineers Association of Women in Communications **Biomedical Engineering Society** Delta Sigma Pi Environmental Professionals Implementing Change (EPIC) Financial Management Association Institute of Management Accountants International Business Association International Society of Pharmaceutical Engineers

National Society of Black Engineers Ohio Collegiate Music Educators Association (OCMEA) Phi Alpha Delta Pi Sigma Epsilon Public Relations Student Society of America Society for Human Resource Management Student Fashion Association

Programming

Residence Hall Program Board University Program Board

Religious

Akron Chinese Christian Fellowship Campus Bible Fellowship Campus Focus Christian Zips Friends Always Ministries Hillel Jewish Students Union Impact Movement Intervarsity Christian Fellowship Muslim Students Association Newman Catholic Community Under God University Bible Fellowship University Unitarian Universalists

Social Fratemity

Alpha Phi Alpha Delta Tau Delta Kappa Alpha Psi Lambda Chi Alpha Phi Delta Theta Phi Gamma Delta Phi Kappa Tau Phi Sigma Kappa Pi Kappa Epsilon (Lone Star) Sigma Alpha Epsilon Sigma Nu Tau Kappa Epsilon Theta Chi

Social Sororities

Alpha Delta Pi Alpha Gamma Delta Alpha Kappa Alpha Alpha Phi Delta Gamma Delta Sigma Theta Kappa Kappa Gamma Sigma Gamma Rho

Special Interests

Akron Animation Association Akron Cycling Alpha Phi Omega Alpine Ski Team Amateur Radio Club Ambassadors Aquatics Club BACCHUS and GAMMA Badminton Club Ballroom Dance Club Black Law Students Association Black United Students Campus Habitat for Humanity Chinese Soccer Club Circle K International College Billiard Tour Association Debonair Dance Ensemble Environmental Law Society Gospel Choir

Green Dragon Kung-Fu Club **INROADS** Intern Student Association Karate/Judo/Taekwondo Club Lesbian/Gay/Bisexual/Transgender Union Middle East Student Association N.A.A.C.P. Northeastern Ohio Clarinet Association Northeastern Ohio Flute Association Outdoor Adventure Club Paintball Club Pre-Law Club Senior Class Board Ski and Snowboard Club Society of Signers Speech and Debate Team Student Athlete Advisory Council Students Taking Action for a New Democracy (STAND) Tae Kwon Do Club Triathion Club University Chess Club University Medieval Society University Showstoppers Zip Recruiting Club

Law

Akron Law Federalist Society Asian-Latino Law Students Association Black Law Students Association Environmental Law Society Health Law Society Intellectual Property and Technology Law Association International Law Society Law Association for Women National Association of Criminal Defense Lawyers Phi Alpha Delta Phi Delta Phi Sports and Entertainment Law Society Student Bar Association

Graduate

Chi Sigma lota-Alpha Upsilon Counseling Psychology Graduate Student Organization Graduate Student Government Industrial/Organizational Psychology Graduate Student Organization Master of Social Work Student Association Polymer Engineering Student Organization Polymer Science Graduate Student Organization



Admissions Procedures and Requirements Fees and Expenses Financial Aid
Admissions

Admission is necessarily limited by the University's capacity to provide for the student's educational objectives. The University reserves the right to approve admission only to those whose ability, attitude, and character promise satisfactory achievement of University objectives. Special consideration for admissions and housing may be given to those applicants who provide The University of Akron with cultural, racial, economic, and geographic diversity, who possess outstanding talents, or whose previous academic performance may have been affected by physical, mental, or learning environment factors.

CLASSIFICATION OF STUDENTS

The University of Akron classifies its students according to their needs, educational background, goals, and abilities. Classifications include:

- Undergraduate A student who has not earned the baccalaureate degree and is eligible to enroll in undergraduate-level credit courses.
- Postbaccalaureate A student who holds the baccalaureate degree from an
 accredited institution, who is eligible to enroll in credit courses on the undergraduate level, and who has not been admitted to the Graduate School. A
 postbaccalaureate student applies for admission to the college (arts and sciences, education, etc.) where undergraduate credit is to be earned.
- Transfer Student A student who has been attending another accredited institution but who wished to complete a degree at The University of Akron.
- Graduate A student who holds the baccalaureate degree from an accredited institution, has been admitted to the Graduate School, and is eligible to enroll in graduate level credit courses.
- Professional A student who holds the baccalaureate degree from an accredited institution and has been admitted to the School of Law.
- Special Student A student who does not meet the regular admissions requirement but qualifies by certain abilities or maturity and is admitted after special petition.
- Auditor A student who wishes to enroll in a course without obtaining a grade-point value ("A-F") or a grade of noncredit or credit. Such students must indicate that they are auditors at the time of registration. Audit status may be denied if space is not available. An auditor is expected to do all prescribed course work except the writing of examinations.
- Post-Secondary Enrollment Options A student who is currently enrolled in high school may enroll in the post-secondary enrollment options program. Students must meet the outlined requirements for these programs.
- Guest or Transient Student -(from another institution) A student who is regularly enrolled and eligible to continue at another institution, and who desires to enroll at The University of Akron for specified courses. A student who is currently on suspension from the home institution is not eligible to be a Guest student. There is a two consecutive term limit for this classification.

(from The University of Akron) A student enrolled at The University of Akron who must obtain written permission from the dean of the student's college before enrolling (guest student status) for credit work at another institution. Credit for such work may be granted at the discretion of the dean.

ADMISSION PROCEDURE

The University of Akron operates under a policy of rolling admissions, which means an applicant receives a letter of admission as soon as all credentials are processed. There is no set date for notification of admission; it is an ongoing process. However, it is advisable for a prospective student to submit all credentials as early as possible to be assured the best selection of classes and/or a room in the residence halls.

Admission procedures vary for different types of students. The various admissions categories include: recent high school graduate, adult student, transfer student, postbaccalaureate student, special student, guest student, post-secondary enrollment options student, and international student.

Please contact the Office of Admissions for application deadlines and admission information, 330-972-7077, or toll-free (800) 655-4884.

Graduating High School Seniors

A student currently enrolled as a high school senior or a student who has graduated from high school not more than one year ago should apply for admission as follows:

The State of Ohio has adopted a policy stating that students must pass the ninthgrade proficiency test in order to receive a diploma, except for those students who are exempt from taking the test. Therefore, The University of Akron requires successful completion of the ninth-grade proficiency test for graduating high school seniors. The GED Certificate of High School Equivalency is recognized in lieu of the diploma.

- Obtain an application form from the Office of Admissions, either by calling 330-972-7077, or (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Applications are available on the web at www.uakron.edu. Complete the application and return it as soon as possible with the nonrefundable application fee (a one-time charge). All checks should be made payable to The University of Akron and should specify what fees and for which student the payment is being made.
- Send a completed copy of the College Prep Core Curriculum form to the Office of Admissions at the time of application.
- Send a student transcript to the Office of Admissions at the time of application. This record must be received before any admission action can be taken by the University.
- Take entrance tests. Arrangements may be made through the student's high school to take the ACT or SAT. (The University's Counseling, Testing and Career Center also serves as a testing site for the ACT test.) Test scores must be submitted before an applicant can be formally admitted to the University.
- In the letter of admission to the University, the student will receive direction regarding new student orientation and academic advising.
- The University requires enrollment in basic mathematics and/or English if the student's academic adviser determines that deficiencies exist in one or both of these areas. This recommendation will be based on the following: work completed at a previous institution in mathematics and/or English, high school academic record (if available), standardized test results (ACT or SAT if available), and University mathematics and/or placement test results. If a mathematics or English placement test is deemed necessary to comply with this policy, the student must take the appropriate placement test(s) by the completion of the first term of attendance.

Home-Schooled Students

The University of Akron accepts student's completion of home schooling as an alternative to a high school diploma. Home-schooled students should indicate "homeschooled" in the section of the admissions application for name of high school.

An admissions committee will review each home-school student. The academic preparation review process will place home-schooled students, based on this assessment, in the appropriate category of direct, conditional, or unconditional admission.

A currently home-schooled student should apply for admission as follows:

- Obtain an application form from the Office of Admissions, either by calling 330-972-7077, or (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Applications also are available on the web at www.uakron.edu. Complete the application and return it as soon as possible with the nonrefundable application fee (a one-time charge). All checks should be made payable to The University of Akron and should specify what fees and for which student the payment is being made.
- Send a completed copy of the College Prep Core Curriculum form to the Office of Admissions at the time of application.
- Send a student transcript to the Office of Admissions at the time of application. This record must be received before any admission action can be taken by the University.
- Take entrance tests. Arrangements may be made through the student's school district to take ACT or SAT. (The University's Counseling, Testing and Career Center also serves as a testing site for the ACT test). Test cores must be submitted before an applicant can be formally admitted to the University.
- Submit documentation that the student was exempt from compulsory public school attendance for the purpose of home education (signed by school district superintendent).
- Provide other supporting documentation including book lists, special projects, activities, etc.
- In the letter of admission to the University, the student will receive direction regarding new student orientation and academic advising.
- The University requires enrollment in basic mathematics and/or English if the student's academic adviser determines that deficiencies exist in one or both of these areas. This recommendation will be based on the following: work completed at a previous institution in mathematics and/or English, high school academic record (if available), Standardized test results (ACT or SAT if available), and the University mathematics and/or placement test results. If a mathematics or English placement test is deemed necessary to comply with this policy, the student must take the appropriate placement test(s) by the completion of the first term of attendance.

Adult Students

An adult student who has graduated from a regionally accredited secondary school or has completed the GED test is eligible to enroll.

The following application procedures should be followed:

- Obtain an application form from the Office of Admissions, either by calling 330-972-7077, or (800) 655-4484, or by writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Applications also are available on the web at www.uakron.edu. Complete the application and return it as soon as possible with the nonrefundable application fee (a one-time charge). All checks should be made payable to The University of Akron, and should specify what fees and for which student the payment is being made.
- If the student is under 25 years of age at the beginning of the term for which they apply, the student must request a high school transcript. This official record must be received and evaluated before admission action can be taken.
- If the student is under 21 years of age at the beginning of the term for which they apply, the student also must submit results of either the ACT or SAT. (The University of Akron's Counseling, Testing and Career Center serves as a testing center for the ACT test.) These test scores are needed before an applicant is formally admitted to the University.
- In the letter of admission to the University, the student will receive direction regarding new student orientation, academic advising and registration.

Transfer Students

A student applying for admission who has formerly attended another regionally accredited institution of higher learning may apply to transfer to The University of Akron. The student must also present scholastic records judged to be satisfactory by University of Akron officials. The assessment of scholastic records may include consideration of prior courses, grade-point average, credit value, and other such factors which the University or individual colleges use in evaluating, ranking, or otherwise determining admissibility to the University or to specific programs. Please contact the Office of Admission for admission criteria.

A transfer student should apply as follows:

- Obtain an application form from the Office of Admissions, either by calling 330-972-7077, or (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Applications are also available on the web at www.uakron.edu. Complete the application and return it as soon as possible with the nonrefundable application fee (a one-time charge). All checks should be made payable to The University of Akron, and should specify what fees and for which student the payment is being made.
- A transfer applicant must request the official transcripts from the records office of all institutions previously attended. They should be mailed to the Office of Admissions.
- A student under 25 years of age and with fewer than 12 credits of accredited transfer work must submit a high school transcript or GED scores along with the college transcript(s). A student under 21 years of age and having fewer than 12 transfer credits must submit results from the ACT or SAT test in addition to a high school transcript or GED scores. These documents must be received and evaluated before any admission action can be taken by the University.
- Please note that failure to take the required test(s) prohibits enrollment in college level mathematics and/or English courses.
- In the letter of admission, the student will receive direction regarding academic advising. University College freshmen and some sophomore students receive academic advisement through the Academic Advisement Center. Transfer students admitted to University College on probation must attend an Individual Academic Management workshop in addition to the New Student Orientation program. A student in the Community and Technical College or another degree-granting college will be advised by a faculty member in the appropriate department.
- The University requires enrollment in basic mathematics and/or English if the student's academic adviser determines that deficiencies exist in one or both of these areas. This recommendation will be based on the following: work completed at a previous institution in mathematics and/or English; high school academic record (if available); standardized test results, ACT or SAT (if available); and University mathematics and/or English placement test results. If a mathematics or English placement test is deemed necessary to comply with this policy, the student must take the appropriate placement test(s) by the completion of first term of attendance. Arrange for the mathematics test by contacting the Testing Service [330-972-7084]; arrange for the English test by contacting the Department of Developmental Programs (Carroll 210, 330-972-7087); and, have test score(s) interpreted by contacting the dean of the University College two days after taking the appropriate test(s).
- · If a student is currently on dismissal from a previous institution at the time of

application, the student will not be permitted to enroll for a period of one semester. (Example: Dismissed Fall of 1999, permitted to enroll Fall of 2000.)

Transfer Module

The Ohio Board of Regents, following the directive of the Ohio General Assembly, has developed a new statewide policy to facilitate movement of students and transfer credits from one Ohio public college or university to another. The purpose of the State Policy is to avoid duplication of course requirements and to enhance student mobility throughout Ohio's higher education system. Since independent colleges and universities in Ohio may or may not be participating in the transfer policy, students interested in transferring to an independent institution are encouraged to check with the college or university of their choice regarding transfer agreements.

The new Ohio Board of Regents' Transfer and Articulation Policy established the Transfer Module, which is a specific subset or the entire set of a college or university's general education requirements. The Transfer Module contains 54-60 quarter hours or 36-40 semester hours of specified course credits in English composition, mathematics, fine arts, humanities, social science, behavioral science, natural science, physical science, and interdisciplinary course work.

A transfer module completed at one college or university will automatically meet the requirements of the transfer module at the receiving institution, once the student is accepted. Students may be required, however, to meet additional general education requirements that are not included in the Transfer Module.

Conditions for Transfer Admission

Students meeting the requirements of the Transfer Module are subject to the following conditions:

- The policy encourages receiving institutions to give preferential consideration for admission to students who complete the Transfer Module and either the Associate of Arts or the Associate of Science degrees. These students will be able to transfer all courses in which they received a passing grade of D or better. Students must have an overall grade point average of 2.0 to be given credit for the Transfer Module.
- 2. The policy also encourages receiving institutions to give preferential consideration for admission to students who complete the Transfer Module with a grade C or better in each course and 90 quarter hours or 60 semester hours. Students must have an overall grade point average of 2.0 to be given credit for the Transfer Module and only courses in which a C or better has been earned will transfer.
- 3. The policy encourages receiving institutions to admit on a non-preferential consideration basis students who complete the Transfer Module with a grade of C or better in each course and less than 90 quarter hours or 60 semester hours. These students will be able to transfer all courses in which they received a grade of C or better.

Admission to a given institution, however, does not guarantee that a transfer student will be automatically admitted to all majors, minors, or fields of concentration at that institution. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as all other students. Furthermore, transfer students shall be accorded the same class standing and other privileges as native students on the basis of the number of credits earned. All residency requirements must be successfully completed at the receiving institution prior to the granting of a degree.

Responsibilities of Students

In order to facilitate transfer with maximum applicability of transfer credit, prospective transfer students should plan a course of study that will meet the requirements of a degree program at the receiving institution. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will articulate with the receiving institution's major. Students are encouraged to seek further information regarding transfer from both their advisor and the college or university to which they plan to transfer.

Appeals Process

A student disagreeing with the application of transfer credit by the receiving institution shall have the right to appeal the decision. The student must submit the appeal in writing to the Dean of University College. A committee comprised of the Dean of University College, the Associate Dean from the degree-granting college of the student's academic major and the Associate Registrar shall review the appeal. If the student disagrees with the appeal committee's decision, he/she may appeal to the Associate Provost.

If a transfer student's appeal is denied by The University of Akron after all appeal levels within the institution have been exhausted, the student will be advised in writing of the availability and process of appeal to the state level Articulation and Transfer Appeals Review Committee. The Appeals Review Committee shall review and recommend to institutions the resolution of individual cases of appeal from transfer students who have exhausted all local appeal mechanisms concerning applicability of transfer credits at receiving institutions.

Transfer Module Course Requirements

The University of Akron Transfer Module requires a minimum of 38 semester credits in six areas as follows (**NOTE**: *All courses marked with an asterisk* (*) may lead toward an associate degree only.):

I.	I. English – 7 credits			
	2020:121	English*	4	
		or		
	3300:111	English Composition	4	
		and		
	3300:112	English Composition II	3	
II.	Mathematic	s- 3 credits		
	2030:152, 153	Elements of Math II, III*	2, 2	
	2030:161	Math for Modern Technology*	4	
	3450:113	Combinatorics and Probability	1	
	3450:114	Matrices	1	
	3450:115	Linear Programming	1	
	3450.127	Math of Finance	2	
	3450.145		1	
	3450.149	Pre-calculus Math	4	
	3450:215	Concepts of Calculus I	Ā	
	3450:221	Analytic Geometry-Calculus I	4	
	3470:260	Basic Statistics	3	
	3470:261	Introductory Statistics I	2	
	3470:262	Introductory Statistics II	2	
ш	. Arts/Huma	nities – 10 credits		
	The following is	required of all students:		
	3400:210	Humanities in the Western Tradition I	4	
	Two courses fro	m different sets are required from the following:		
	Set 1	an anotone bets are required inorn the tokowing.		
	7100-210	Vieual Arte Awaranaes	2	
	7500.210	Visual Arts Awareness Exploring Music: Back to Rock	3	
	7900:201	Introduction to Theatre and Ellm	3	
	7900:200	Viewing Dance	3	
	Set 2		5	
	3200:220	Introduction to the Ancient World	3	
	3200:230	Sports and Society in Ancient Greece and Rome	3	
	3200:289	Mythology of Ancient Greece	3	
	3600:101	Introduction to Philosophy	3	
	3600:120	Introduction to Ethics	3	
	3600:170	Introduction to Logic	3	
	Set 3			
	3200:361	Literature of Greece	3	
	3300:250	Classic and Contemporary Literature	3	
	3300:252	Shakespeare and His World	3	
	3580:350	Literature of Spanish America in Translation	3	
	2400-211	Humonition in the Mentern Tradition II		
	3400.211		4	
IV	. Social Sciel	nce – 6 credits		
	Select two cours	ses from two different sets:		
	Set 1			
	2040:247	Survey of Basic Economics*	3	
	3250:100	Introduction to Economics	3	
	3250:200	Principles of Microeconomics	3	
	3250:244	Introduction to Economic Analysis	3	
	2250-100	Introduction to Cooperativ	2	
	Set 2	Introduction to Geography	3	
	2040.240	American Lithan Society*	2	
	3700:100	Government and Politics in the U.S.	4	
	3700:150	World Politics and Government	3	
	Set 4			
	2040:240	Human Relations*	3	
	3750:100	Introduction to Psychology	3	
	Set 5			
	3230:150	Cultural Anthropology	4	
	3850:100	Introduction to Sociology	4	
	Set 5			
	3400:250	U.S. History to 1877	4	
	3400:251	U.S. HISTORY SINCE 18//	4	
	2040-241		2	
	3600:125	Technology and Fruithan Values" Theory and Evidence	2	
	Notur-1 0 - 1-		5	
۷.	Select at least to	unce - o creans		
	2820-161	vo umerem sciences, one or which must include a laboratory comp Technical Physics: Mechanics I*	2 2 NORIEL	
	2820:162	Technical Physics: Mechanics II*	2	
			-	

	2820:165	Heat and Light*	2
	2820:105	Basic Chemistry*	з
	2820:111	Introductory Chemistry*	3
	2820:112	Introductory and Analytical Chemistry*	3
	3100:100	Introduction to Botany	4
	3100:101	Introduction to Zoology	4
	3100:103	Natural Science: Biology	4
	3100:111	Principles of Biology	4
	3100:112	Principles of Biology II	4
	3100:130	Principles of Microbiology	3
	3100:208	Human Anatomy and Physiology	4
	3100:209	Human Anatomy and Physiology	4
	3150:100	Chemistry and Society	3
	3150:110,11	Introduction to General, Organic and Biochemistry I, Lab	5
	3150:112,13	Introduction to General, Organic and Biochemistry II, Lab	6
	3150:151	Principles of Chemistry I	3
	3150:152	Principles of Chemistry Laboratory	1
	3150:153	Principles of Chemistry II	3
	3370:100	Earth Science	3
	3370:103	Natural Science: Geology	3
	3370:200	Environmental Geology	3
	3370:201	Exercises in Environmental Geology I	1
	3370:203	Exercises in Environmental Geology II	1
	3650:130	Descriptive Astronomy	4
	3650:133	Music, Sound and Physics	4
	3650:137	Light	4
	3650:160	Physics in Sports	3
V	I. Interdiscipli	inary – 4 credits, two courses	
	1810:201	Introduction to Pan-African Studies	3
	2040:254	Black Experience from 1619 to 1877	2
	3350:375	Geography of Cultural Diversity	2
	3400:385	World Civilizations: Unina	2
	3400:366	World Chillentions: Japan	2
	3400:387	World Civilizations: Southeast Asia	2
	3400:388	World Christmations: India	2
	3400.369	World Civilizations: Mear East	2
	3400:390	World Chillingtianau Latin America	2
	3400.391	VVOHU CIVINZAUONS: LAUN AMERICA	· Z

nical Dhunian: Electricity and Mary

2020-162

Additional information regarding the Transfer Module may be obtained from the University College Dean's Office, 330-972-7066.

Postbaccalaureate Students

A student who holds the baccalaureate degree from an accredited college and wishes to continue educationally but has not been admitted to the Graduate School, should apply as a postbaccalaureate student through the Office of Admissions. This procedure should be followed:

- Obtain an application form from the Office of Admissions, either by calling 330-972-7077, or (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Complete the application and return it as soon as possible with the nonrefundable application fee (a one-time charge). All checks should be made payable to The University of Akron, and should specify what fees and for which student the payment is being made.
- A postbaccalaureate student must request transcripts from the institution from which he or she received a bachelor's degree and any transcripts for any subsequent course work. These documents must be received and evaluated before any admission action can be taken by the University.
- A health record will be sent from the Office of Admissions after the student has been admitted. Please complete the form and return it. This provides the University with the information necessary for a complete health record on every student.
- In the letter of admission, the student will receive information on registration and instructions for academic counseling by a faculty member in the appropriate department.

Special Student

A special student is one who does not qualify for regular admission to the University or who is participating in a special short-term academic program.

A special student may not take more than 15 credits unless official status as a regular student is gained.

This procedure should be followed:

- Obtain an application from the Office of Admissions, The University of Akron, Akron, OH 44325-2001.
- Obtain permission to enroll under the Special Student category from an admissions officer.
- Information regarding registration for classes and academic advising will be forthcoming in the letter of admission to the special student program.

Postsecondary Enrollment Options

Postsecondary Enrollment Options program is a state-wide program created by the Ohio legislature to allow high school students to enroll in a college or university for the fall and spring semesters. There are two options for students interested in the program:

Option A: This option allows students to receive college credit only. The student is responsible for all costs associated with enrollment including, but not limited to, textbooks, materials, supplies, tuition and fees.

Option B: This option allows students to receive high school graduation credit and college credit simultaneously. Textbooks, materials, tuition and fees related to the course work are provided at public expense.

Enrollment options are not intended to be a substitute for the academic programs, social growth or maturing experience provided by Ohio's public and private high schools or otherwise interfere with or replace advanced placement courses or the college preparatory curriculum available to students within their school system.

A student in grades 9-12 may enroll in the Postsecondary Enrollment Options program. The Postsecondary Enrollment Options programs are limited and selective. The University has the right to accept only as many qualified students as can be properly served.

Eligibility Requirements

For 11th and 12th grade participants:

- 3.30 cumulative GPA with a 24 ACT composite or combined 1110 SAT, or 3.50 cumulative GPA.
- All students must submit an ACT/SAT for placement purposes.
- Students may enroll in up to 14 credit hours per semester. If a student wishes to enroll in more than 14 credit hours per semester, he/she may appeal to the dean of University College.

For 9th and 10th grade participants:

- 3.75 cumulative GPA.
- 26 ACT composite or 1150 SAT composite.
- Pass all portions of the ninth-grade proficiency test.
- Letter of recommendation from a school instructor within the student's field of interest at The University of Akron.
- Grade of at least a B+ in all English courses.
- Write an essay, 500 words or less, regarding why the student wants to enroll in the Postsecondary Enrollment Options Program.
- Applications for students that do not meet the required ACT and/or GPA will be reviewed on an individual basis by a Review Committee to determine admission to the program.

Students interested in participation in the program should:

- obtain a Postsecondary Enrollment Options application from the Office of Admissions, The University of Akron, Akron, Ohio 44325 2001.
- complete and return the form with the guidance counselor's and parents' signatures and the non-refundable application fee (a one time charge).

Information regarding acceptance into the program, registration for classes, and academic advising will be forthcoming in the letter of admission to the Postsecondary Enrollment Options program.

Guest Students (Non-University of Akron Students)

An undergraduate guest student must apply to the Office of Admissions. A graduate student must apply through the dean's office of the Graduate School.

A guest student may not, as a general rule, attempt more than 16 credits in any semester or session and is subject to all rules and regulations of The University of Akron. Guest students must be in good standing at their home school.

The following procedures should be followed when applying to the University as a guest student:

- Obtain a guest student application from the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Complete it and return it with the nonrefundable application fee (a one-time charge).
- Receive advice and written approval by the home institution of the course work for which the student plans to enroll.
- After admittance, information regarding registration will be sent to the student. The admissions officers act as guest student counselors.

DIRECT/STANDARD/ PROVISIONAL ADMISSION

The University of Akron has adopted a "direct/standard/provisional" admission policy for traditional-aged entering freshmen. Traditional-aged freshmen are defined as those who have graduated from high school within the previous two years. The policy was established to communicate to students whether they are academically prepared to be suc-

cessful at the University. The key elements of the policy are:

Academically talented freshmen will have the option of admission directly to the program of their choice. To be directly admitted, a student must meet certain academic standards such as high school grade-point average, test scores, class rank, and core curriculum. The standards for direct admission are determined by each department.

Most students (including those who are undecided about their major) begin their college career in the University College. Students are admitted "standardly" to the University College if their credentials are above the standards for conditional admission but below the standards for direct admission to an academic program.

Entering freshmen who are identified as being academically underprepared will be admitted "provisionally" and be required to complete skill building courses and other prescriptive activities. Students will be considered for conditional admission if they have less than a 2.3 GPA or lower than a 16 ACT/650 SAT score, or of they are deficient in completing the core curriculum for college preparation.

Core curriculum is defined by the following: English, 4 units; Mathematics, 3 units; Natural Science, 3 units; Social Science, 3 units; Foreign Language, 2 units.

All students (both provisional and standard) pursuing an associate's degree will be admitted directly to the Community and Technical College.

Criteria for Direct Admission to Degree-Granting College

COLLEGE/DEPT.	MINIMUM REQUIREMENTS	
Buchtel College of Arts and Sciences	Requirements vary by department	
Biology	 3.0 high school grade point average 21 ACT - 880 SAT upper 50% of high school graduating class core curriculum 	
Chemistry	 3.0 high school grade point average 20 ACT - 840 SAT upper 50% of high school graduating class core curriculum 	
Classical Studies, Anthropology and Archaeology	 3.0 high school grade point average 21 ACT - 880 SAT upper 50% of high school graduating class core curriculum 	
Economics	 2.7 high school grade point average 20 ACT - 840 SAT upper 50% of high school graduating class core curriculum 	
English	 2.75 high school grade point average 20 ACT - 840 SAT upper 50% of high school graduating class core curriculum 	
Geography and Planning	 2.75 high school grade point average 20 ACT - 840 SAT upper 50% of high school graduating class core curriculum 	
Geology	 2.75 high school grade point average 21 ACT - 880 SAT upper 50% of high school graduating class core curriculum 	
History	 2.75 high school grade point average 21 ACT - 880 SAT upper 50% of high school graduating class core curriculum 	
Mathematics Applied Mathematics Computer Science	 3.0 high school grade point average 22 ACT - 920 SAT upper 50% of high school graduating class core curriculum 	
Modem Languages	 3.0 high school grade point average 20 ACT - 840 SAT upper 50% of high school graduating class core curriculum 	

Criteria for Direct Admission to Degree-Granting College, cont.

COLLEGE/DEPT.	MINIMUM REQUIREMENTS		
Philosophy	 3.0 high school grade point average 22 ACT - 920 SAT upper 50% of high school graduating class core curriculum 		
Physics	 3.0 high school grade point average 22 ACT - 920 SAT upper 50% of high school graduating class core curriculum 		
Political Science	 3.0 high school grade point average 21 ACT - 880 SAT upper 50% of high school graduating class core curriculum 		
Psychology	 3.3 high school grade point average 25 ACT - 1050 SAT upper 50% of high school graduating class core curriculum 		
Sociology	 3.0 high school grade point average 21 ACT - 880 SAT upper 50% of high school graduating class core curriculum 		
Statistics	 3.0 high school grade point average 22 ACT - 880 SAT upper 50% of high school graduating class core curriculum 		
College of Business Administration (all departments)	 3.0 high school grade point average or upper 50% of high school graduating class 21 ACT - 880 SAT core curriculum 		
College of Education (all departments)	 3.5 high school grade point average 25 ACT - 1050 SAT upper 20% of high school graduating class core curriculum 		
College of Engineering (all departments)	 3.4 high school grade point average 24 ACT Composite score - 25 ACT Math Score or 1010 SAT Composite - 560 SAT Math score upper 25% of high school graduating class core curriculum including: 4 units Math, including Trigonometry, with grade of B or above, 1 unit Chemistry, with grade of B or above 		
College of Fine and Applied Arts	Requirements vary by major below		
Art	 3.3 high school grade point average 22 ACT - 920 SAT upper 30% of high school graduating class core curriculum 		
Communication	 3.4 high school grade point average 25 ACT - 1050 SAT Composite score 27 ACT - 600 SAT Verbal score upper 25% of high school graduating class core curriculum 		
Speech-Language Pathology and Audiology	 3.5 high school grade point average 25 ACT - 1050 SAT upper 10% of high school graduating class core curriculum 		
Dance	No direct admission		

COLLEGE/DEPT.	MINIMUM REQUIREMENTS	
Music	 3.0 high school grade point average core curriculum 20 ACT - 800 SAT placed in Music Theory I placed in the 100 Applied level receive music scholarship 	
Theatre Arts	No direct admission	
Social Work	No direct admission	
Family and Consumer Sciences	Requirements vary by major below	
Family Development, Child Development, and Pre-K Certification	 3.0 high school grade point average 19 ACT - 800 SAT upper 50% of high school graduating class core curriculum enroll in and complete 7400:147 during first year of course work 	
Child Life	 3.0 high school grade point average 19 ACT - 800 SAT directly admitted as Child Development major as a junior must complete further evaluation based on interviews, interests, and grade point average 	
Fashion Merchandising and Interior Design	 3.0 high school grade point average 19 ACT - 800 SAT upper 50% of high school graduating class core curriculum enroll in and complete 7400:147 during first year of course work 	
Dietetics and Nutrition	 3.5 high school grade point average 20 ACT - 840 SAT upper 25% of high school graduating class core curriculum enroll in and complete 7400:147 during first year of course work 	
Food Science	 3.0 high school grade point average 19 ACT - 800 SAT upper 50% of high school graduating class core curriculum enroll in and complete 7400:147 during first year of course work take Chemistry I and II courses meet with Food Science adviser during first semester on campus 	
Family and Consumer Sciences Education, Vocational Family and Consumer Education Teacher Education	 3.0 high school grade point average 19 ACT - 800 SAT upper 50% of high school graduating class core curriculum enroll in and complete 7400:147 during first year of course work meet with family and consumer sciences adviser during first semester on campus 	
College of Nursing	Requirements vary by status of student	
New High School graduates (within two years of graduation)	 2.75 high school grade point average 20 ACT - 950 SAT upper 50% of high school graduating class core curriculum including Algebra, Geometry, Biology and Chemistry 	
New University students with no prior college courses who completed high school more than two years ago	 24 semester hours of University of Akron courses with a minimum grade point average of 2.75 	

Criteria for Direct Admission to Degree-Granting College, cont.

COLLEGE/DEPT.	MINIMUM REQUIREMENTS
College of Nursing, cont.	Requirements vary by status of student
Transfer Students	 2.75 cumulative College grade point average Minimum of 30 semester hours of previous college course work from an accredited college or university
Post-Baccalaureate Students	 Minimum 2.75 baccalaureate grade point average Graduate of an accredited college or university
LPN/BSN, RN/BSN, RN/MSN prospective students	All students with a University admission code in these areas
Community and Technical College (all departments)	All students, both conditional and unconditional, will be admitted directly.
Wayne College (all departments)	All students, both conditional and unconditional, will be directly admitted.

INTERNATIONAL STUDENTS

The University of Akron welcomes international students and seeks to make their educational experience pleasing and meaningful. Each year, approximately 860 international students from 83 countries pursue studies and research at The University of Akron.

Admission Procedures for International Students

International students may begin their undergraduate study for the fall (last week in August) or spring (mid-January) semesters or for either of the University's two summer sessions (June/July). Students should submit their applications at least five months in advance of the date they wish to begin their studies.

Applicants should have completed secondary schooling and have the equivalent to a 2.00 on a 4.00 GPA scale.

The following documents must be received before an application can be acted upon:

1) International Student Application

Requests may be made to:

	Office of International Programs International Admissions
	The University of Akron
	Akron, OH 44325-3101
	USA
Telephone:	330-972-6349
Fax:	330-972-8604
E-Mail:	international@uakron.edu
World Wide Web:	http://www.uakron.edu/oip

Return the completed application to the above address with a non-refundable one-time application fee of \$50 made payable to The University of Akron. Application fees will not be waived.

2) Transcripts

Official transcripts or attested copies from universities, schools or colleges previously attended must be submitted. The originals must be accompanied by exact certified English translations. Upon request, official documents may be returned to the student. Copies notarized by a Notary Republic are unacceptable.

3) Degree Conferral

All applicants must submit documentation for all prior degrees earned. Provisional certificates may be accepted pending the award of a degree. The same standards of authenticity apply as those used for transcripts. 4) English Language Proficiency

The University requires each non-immigrant student for whom English is not the native language to take the Test of English as a Foreign Language (TOEFL). Applications may be obtained from bi-national agencies, the United States Information Service (USIS), the Educational Testing Service (ETS), or from the Office of International Programs.

Undergraduate applicants must achieve a minimum score of 500 on the paper-based TOEFL or a 173 on the computer-based test. TOEFL scores are valid for a two-year period of time only. Copies of TOEFL scores will not be accepted.

Conditional Admission is offered to students who are academically acceptable but who have not yet reached the level of English proficiency required for full admission. Students may enroll in the English Language Institute (ELI) for one or more semesters until they are certified as English proficient. Students enrolled in the ELI may not take academic course work simultaneously.

Further information may be obtained from:

Akron, OH 44325-1909	ġ
Telephone: 330-972-7544 Fax: 330-972-7353 E-Mail: ua-eli@uakron.edu World Wide Web: http://www.uakron.edu	v/eli

Applicants who have satisfactorily completed nine months of full-time academic course work in an American college/university and are in good standing academically may have the TOEFL examination waived upon written request to the Office of International Programs.

Financial and Immigration Documentation

Undergraduate tuition, fees and living expenses for the 2001-2001 academic year will be approximately \$20,296. Graduate tuition, fees and living expenses will be approximately \$17,604. Information on estimated expenses can be found on the form "Declaration and Certification of Finances" (DCF) included in the application packet. This form must be completed and returned to the Office of International Programs along with other application materials.

Applicants planning to arrive to The University of Akron on student visa (F-1/J-1) must complete both pages of the DCF form and attach original financial documents required by this form. According to U.S. Government regulation, the financial documents must demonstrate that the student has enough immediately available funds to meet all expenses of the first year of program and adequate funding will be available for each subsequent year of study. Dated not earlier than one year from start of program.

Applicants intending to hold visa other than F-1/J-1 during their study at The University of Akron should complete only page 1 of this form; no other financial documentation is required.

Once the student has been admitted and his/her financial documents are sufficient, the Office of International Programs will issue the Certificate of Eligibility (I-20/IAP-66) needed for the student to apply for an F-1/J 1 visa.

Students on F-1/J-1 visa transferring to The University of Akron from another U.S. College/university without leaving the U.S.A. will be eligible for transfer only if they maintain a valid nonimmigrant status. The I 20/IAP-66 will be issued upon submission of the document proving their valid status and meeting requirements mentioned above. A new I-20/IAP-66 must be obtained no later than the first 15 days of the first semester.

Scholarships

A limited number of June Thomas Rogers Scholarships are available to undergraduate international students. All interested applicants should contact the Office of International Programs for further details.

Medical Insurance Coverage

All international students must carry medical insurance that meets the minimum established requirements set forth by the University. Such coverage must be effective throughout the student's studies at The University of Akron.

International Student Orientation

International students are required to attend the International Student Orientation program for which they are charged \$45. The orientation dates will be provided in the pre-arrival information sent to the student with the immigration documentation.

Procedures and Requirements

NEW STUDENT ORIENTATION

All new freshmen, transfer students and students enrolled in the Post Secondary Enrollment Option Program (PSEOP) are required to attend an orientation program prior to registering for classes at The University of Akron. Orientation is conducted as a one-day program and is intended to insure a smooth transition to the University. Content includes sessions on academic policies and procedures, registration and financial responsibility, computer technology, campus involvement, learning habitats and campus safety. In addition, students will take any necessary placement tests, meet with an academic advisor and register for classes during orientation.

Orientation information and a reservation form is mailed to new students after admission. Multiple orientation sessions are available prior to each term and are filled on a first-come, first-served basis. Therefore, students should make their orientation reservation early for the best selection of program dates.

ACADEMIC ADVISING

New students are required to meet with academic advisers upon initial entry to the University. Thereafter, students are strongly encouraged to see advisers each term to discuss degree requirements, career goals, major choice, course selection, and other academic concerns.

Conditionally admitted students will have required meetings with their assigned adviser to facilitate their prescribed learning activities.

REGISTRATION

Each term it is necessary for a student to select courses, complete required forms, and pay the appropriate fees to register officially for classes. The student may elect to register by telephone, the Web or in person. Details about these options are described on the Registrar's Web page at www.uakron.edu/registrar and in the Schedule of Classes published every academic period and available upon request from the student's advising agency, the Academic Advisement Center, the degree-granting college, Gardner Student Center, or Spicer Hall 104. Students enrolling after the official continuing registration period or paying after the payment due date will be charged a nonrefundable late fee.

CLASS ATTENDANCE

A student is expected to attend all meetings of a class for which he or she is registered. A student may be dropped from a course by the dean if absences are repeated and the instructor recommends this action; a student can gain re-admission only with permission of both dean and instructor. A student dropped from a course receives an "F" which counts as work attempted whenever grade-point ratio calculations are made.

STUDENT SCHEDULES

Adding Courses

A student must register for a course before the end of the fifth day of a fall or spring term or the second day of a summer session. Additions to the student's official schedule may be made after that date, but before the 15th calendar day, only with the permission of the student's adviser, instructor and dean or the dean's designate. Students who have not registered and paid by this deadline may not attend classes to receive credit for the course.

This deadline applies to all regular 15-week courses offered in the Fall and Spring semesters as well as to regular courses in Summer I and II. For all other courses, such as those in intersessions or those which are flexibly scheduled, courses must be added, with appropriate permission, by the date when 20% of the course has been completed.

A student in the University College should initiate all changes through an adviser in the Academic Advisement Center, Spicer Hall 200.

Withdrawal Policy

A student may withdraw from a course without an adviser's or course instructor's signature through the 15th day of a semester or comparable dates during summer session, intersession, etc. After the 15th day of a semester, and up to the midpoint of a semester, a student may withdraw from a course with the signature of the student's adviser.

After the midpoint of a semester, a student must have the signature of both the course instructor and the adviser. Such authorization must be dated and processed through the office of the Registrar no later than the last day of the 12th week of classes or comparable dates during summer session, intersession, etc.

Should the instructor or adviser refuse to sign the withdrawal form, the student may appeal to the dean of the student's college, who shall make the final decision after consultation with the instructor or adviser who declined to approve the withdrawal.

An approved withdrawal after the 15th day of the term will be indicated on the University official academic record by a "WD." A student who leaves a course without going through the withdrawal procedure will be given an "F" in the course.

Guest Student (University of Akron Students)

A University of Akron student may take course work at another institution of higher education as a guest student. For all courses other than general education requirements, the student must obtain **prior** written permission from the dean of the college in which the student is enrolled; for general education courses, **prior** written permission must be obtained from the dean of the University College. These courses will be listed on the University official academic record. Each course will reflect the course number, title and credit value; no grade-point value will appear on the record and no grade-point average will be calculated for the course work listed. The name of the institution will be listed on the University official academic record as well as the date that the coursework was taken.

GRADE POLICIES AND CREDIT

Grades and the Grading System

A student will receive grades on various types of classroom performance during the process of most courses and a final grade at the end of the term. At the end of the term, students may obtain their grades either by web, telephone or in person. Details about these options are described on the Registrar's Web page at www.uakron.edu/registrar and in the Schedule of Classes published every academic period. Individual tests are usually graded with percentage or letter marks, but official academic records are maintained with a grade-point system. This method of recording grades is as follows:

Grade	Quality Points	
Α	4.0	
A-	3.7	
B+	3.3	
В	3.0	
B-	2.7	
C+	2.3	
С	2.0	
C-	1.7	
D+	1.3	
D+	0.0	Graduate courses only
D	1.0	
D	0.0	Graduate courses only
D-	0.7	
D-	0.0	Graduate courses only
F	0.0	Failure
1	0.0	Incomplete
IP	0.0	In Progress
AUD	0.0	Audit
CR	0.0	Credit
NC	0.0	Noncredit
WD	0.0	Withdrawn
NGR	0.0	No grade reported
INV	0.0	Invalid grade reported
PI	0.0	Permanent Incomplete
R	0.0	Repeat

Notes: Prior to Fall Semester 1973 cumulative grade point averages included transfer work.

A student cannot raise a grade through re-examination.

I - Incomplete: Indicates that the student has done passing work in the course but that some part of the work is, for good and acceptable reason, not complete at the end of the term. Failure to make up the omitted work satisfactorily by the end of the following term, not including summer sessions, converts the "I" to an "F". When the work is satisfactorily completed within the allotted time the "I" is converted to whatever grade the student has earned. (If instructors wish to extend the "I" grade beyond the following term for which the student is registered, prior to the end of the term they must notify the Office of the Registrar in writing of the extension and indicate the date of its termination. It is the responsibility of the student to make arrangements to make up the incomplete work. The faculty member should submit the new grade to the Office of the Registrar in writing.)

IP - In Progress: Indicates that the student has not completed the scheduled course work during the term because the nature of the course does not permit completion within a single term, such as work toward a thesis.

PI - Permanent incomplete: Indicates that the student's instructor and the instructor's dean have for special reason authorized the change of an incomplete ("I") to a permanent incomplete ("PI").

WD - Withdraw: Indicates that the student registered for the course but withdrew officially after the 15th day of the term.

NGR - No Grade Reported: Indicates that, at the time grades were processed for the current issue of the record, no grade had been reported by the instructor.

INV - Invalid: Indicates the grade reported by the instructor for the course was improperly noted and thus unacceptable for proper processing.

Importance of Grades

Grades determine whether a student is either eligible or ineligible to remain at the University. Eligibility in the 200-plus registered student organizations and other cocurricular activities is dependent on the student's maintenance of good academic standing at the University. Some selective organizations such as honoraries and varsity athletics require special eligibility criteria.

On the basis of grades, a student receives opportunities to take additional courses to accelerate academic progress.

A student should transfer from the University College to a degree-granting college when the grade and credit-hour requirements of that college have been met. Acceptance for admission to a college depends on the approval of the dean of the college which the student chooses to enter and on the student's academic performance to date.

Dean's List

Undergraduate students who carry 12 graded credits or more without receiving an "Incomplete" or "In Progress" grade and earn a grade point average of 3.25 or better are eligible for inclusion on the Dean's List of their respective college. This is an undergraduate academic honor recognizing excellence in the classroom prior to the completion of the degree.

Part-Time Student Dean's List

Undergraduate part-time students who carry between 6 and 11.5 graded credits without receiving an "Incomplete" or "In Progress" grade and earn a grade point average of 3.25 or better are eligible for inclusion on the Part-Time Student Dean's List of their respective college. This is an undergraduate academic honor recognizing excellence in the classroom prior to the completion of the degree.

Probation-Dismissal

A student who fails to maintain a grade-point average of 2.00 ("C") is placed on academic probation and may be subject to a change of courses, dismissal, or some other form of discipline. Academic discipline is determined by the dean of the college in which the student is enrolled. Reinstatement of a student is determined by the dean of the college from which the student was dismissed.

Once dismissed from the University, a student is not eligible to register for credit courses until readmitted.

Repeating Courses

Any course may be repeated twice by an undergraduate student subject to the following conditions:

- To secure a grade ("A-F") or a grade of "NC," "CR" or "AUD," a student may repeat a course in which the previously received grade was "C-," "D+," "D," "D-," "F," "AUD" or "NC." Registrations under the "CR/NC" option are subject to the restrictions in the "CR/NC" policy.
- With the dean's permission, a student may substitute another course if the previous course is no longer offered. Courses must be repeated at The University of Akron.

- Grades for all attempts at a course will appear on the student's official academic record.
- Only the grade for the last attempt will be used in the calculation of graduation grade-point average.
- All grades for attempts at a course will be used in grade-point calculation for the purpose of determining graduation with honors and class standing.
- For purposes of this section, credit for this course or its equivalent will apply only once toward meeting degree requirements.

Academic Reassessment

An undergraduate student who has not attended The University of Akron for at least three calendar years and re-enrolls may be a candidate for Academic Reassessment. The student must maintain a grade point average of at least 2.50 or better for the first 24 associate and baccalaureate credits earned in UA courses, which are graded "A" through "F." Upon meeting this requirement, the student may petition the Dean to delete from the grade point average the grades attained under the student's previous enrollment at The University of Akron.

Reassessment affects the grade-point average only; grades remain on the student's official academic record and are part of the calculation in determining graduation with honors and class standing.

A student may utilize this academic reassessment policy only once. Grades of CR/NC and AUD are excluded from this calculation.

Academic Dishonesty

Students at The University of Akron are an essential part of the academic community, and enjoy substantial freedom within the framework of the educational objectives of the institution. The freedom necessary for learning in a community so rich in diversity and achieving success toward our educational objectives requires high standards of academic integrity. Academic dishonesty has no place in an institution of advanced learning. The University community is governed by the policies and regulations contained within the Student Code of Conduct available in the Office of Student Conduct, Gardner Student Center 104, 330-972-7021.

The University of Akron considers academic integrity an essential part of each student's personal and intellectual growth. Instances of academic dishonesty are addressed consistently. All members of the community contribute actively to building a strong reputation of academic excellence and integrity at The University of Akron.

It is each student's responsibility to know what constitutes academic dishonesty and to seek clarification directly from the instructor if necessary. Examples of academic dishonesty include, but are not limited to:

- Submission of an assignment as the student's original work that is entirely or partly the work of another person.
- Failure to appropriately cite references from published or unpublished works or print/non-print materials.
- Unauthorized copying of an assignment in computer programming, or the unauthorized examination or view of the computer, specifically during examinations.
- Possession and/or unauthorized use of tests, notes, books, calculators or formulas stored in calculators not authorized by the instructor during an examination.
- Providing and/or receiving information from another student other than the instructor, by any verbal or written means.
- Observing or assisting another student's work.
- Violation of the procedures prescribed by the professor to protect the integrity of the examination.
- · Cooperation with a person involved in academic misconduct.

A student who has been accused of academic dishonesty will be asked to meet with the course instructor. The matter can be resolved informally at the College level and/or an academic sanction can be imposed. If the student opposes the decision, he/she may appeal to the College Dean. If the matter is referred to the Office of Student Conduct, an informal meeting will occur and, if substantial evidence exists, the office has the authority to take formal action against the student including, but not limited to, suspension or dismissal from the University. A more detailed discussion of these procedures can be found in the Student Code of Conduct.

Student Outcomes Assessment

The purpose of The University of Akron's student assessment program is to improve student growth in academic and social skills, student services, and the quality of campus life. Most students will be involved in both voluntary and required assessment activities. Participation in these activities will be monitored and sanctions will be imposed for students not complying with the required activities.

Credit/Noncredit Option (undergraduate and postbaccalaureate only)

A student who takes a course on a "credit" or "noncredit" (CR/NC) basis, and who earns a grade equivalent of "A" through "C-," shall receive credit ("CR") for the course and have the grade, "CR," placed on the permanent record; a grade equivalent of "D+" through "F" will be recorded with the noncredit grade, "NC."

For the baccalaureate degree, no more than 16 credits of non-language courses and no more than 20 credits in total (including language courses) is permitted to be taken on a CR/NC basis. For the associate degree, no more than eight credits of non-language courses and no more than 10 credits in total, including language courses, is permitted.

A student is eligible for the CR/NC option if the student has:

- completed 50% of the number of credits required for a degree;
- a GPA of at least 2.30; and
- the consent of an adviser.

The CR/NC option is available **only** at the time of registration for the course. After the first week of the term or first two days of a summer session, the status can not be changed. The registrar will notify the instructor of those students utilizing the CR/NC option by means of the final class list.

Courses that can be taken on a CR/NC basis:

- one free elective (not in major field) course per term;
- any first- and/or second-year foreign language course at any time, regardless of grade-point average.

Courses that can not be taken CR/NC:

- any General Education courses
- courses required by colleges and departments of all undergraduate majors

Courses for which "CR" is awarded will be counted as hours completed only; courses for which "NC" is awarded shall not be counted as hours attempted; in neither case shall "CR" or "NC" be considered in calculating grade-point average, but in both instances the course shall be entered on the student's official academic record.

A student may repeat a course for credit (CR), or a grade (A-F) after receiving a grade of "NC."

A college may designate in the printed schedule, on an annual basis, a course as not available to be taken on a "CR/NC" basis.

A student taking a course on a "CR/NC" basis is expected to meet the full requirements of the course as required by the instructor.

Audit Policy

A student choosing to audit a course must be admitted and indicate audit at the time of registration. The student pays the enrollment fee and may be expected to do all the work prescribed for students taking the course for credit, except that of taking the examination. Any faculty member may initiate withdrawal for a student not meeting these expectations.

Transient Work at Another University

Any University of Akron student who wishes to take course work at another accredited institution of higher education must receive prior approval by the academic dean of the appropriate unit if the student intends to apply this course work toward a degree at The University of Akron.

- A student can make an official request for transient credit by submitting a Transient Permission Form. If the course work taken at another institution will be used to satisfy University of Akron General Education requirements, permission to take the course must be received from the University College Dean's Office.
- If the course work taken at another institution will be used to satisfy an uppercollege degree requirement or as elective credit, permission to take the course must be received from the department or college in which the course is taught at The University of Akron.
- 3. If a student is within 32 credits of receiving a baccalaureate degree or within 16 units of receiving an associate degree, the student must receive transient permission from the student's degree-granting college.

Note: Course work taken at another institution cannot be considered for The University of Akron's *Repeat for Change of Grade Policy* or *Academic Reassessment* and will not be calculated into the UA grade-point average.

ALTERNATIVE CREDIT OPTIONS

Advanced Placement Credit

Many high schools offer special Advanced Placement courses through the auspices of the Educational Testing Service for possible college credit. By enrolling in such courses during high school, and taking the Advanced Placement Tests at the end of each course, high school students may earn undergraduate credits in a number of different academic areas. The test score required to receive credit for a specific course is determined by the Academic Department in which the course is offered. Credits earned in this manner are included in the total credits completed, but are not assigned a grade and do not count in the quality-point ratio, class standing, or graduation with honors calculations. Students must take the tests while they are attending their high school. It is not possible to take the tests once a student is enrolled at The University of Akron. The following table lists disciplines available for Advanced Placement testing, scores required for accruing credit, and courses at The University of Akron for which credit may be earned.

Discipline	Required Score	Course	Creaks
Art History	4 or 5	7100: 100 Survey of Art History I 7100: 101 Survey of Art History II	4 4
Art:Studio	4 or 5	7100: (One studio course in a specific area of art)	3
Biology	4 or 5	3100:111 Principles of Biology	4
		3100:112 Principles of Biology	4
Biology	3 (non-science majors only)	3100:100 Introduction to Botany	4
		3100:101 Introduction to Zoology	4
		3100:105 Introduction to Ecology	-
Calculus AB	4 or 5	3450:149 Precalculus Mathematics 2450:215 Concepts of Calculus I	4
	OR	3450.215 Concepts of Calculus I	
		3450:149 Precelculus Mathematics	4
		3450:221 Analytical Geometry - Calculus 1	-
Calculus BC	4 or 5	3450:149 Precalculus Mathematics	4
		3450:215 Concepts of Calculus i 3450:216 Concepts of Calculus II	4
	OR		
		3450:149 Precalculus Mathematics	4
		3450:221 Analytical Geometry - Calculus 1 2450:222 Analytical Geometry - Calculus I	4
Chemistry	3, 4, or 5	3150:151 Principles of Chemistry I ab	1
		3150:152 Principles of Chemistry II	3
		3150:154 Quantitative Analysis	2
Computer Scie	nce 3, 4, or 5	3460:209 Introduction to Computer Science	4
Economics	3, 4, or 5	3250:200 Principles of Microeconomics	3
	OF	1 3250:201 Principles of Macroeconomics	3
English	3 or 4	3300:111 English Composition I	4
English	5	3300:111 English Composition I	4
	-	3300:112 English Composition II	3

Annroved for

Discipline	Required Score	Course	Credits
History/American	4 or 5	3400:250 U.S. History to 1877 3400:251 U.S. History since 1877	4 4
History/European	4 or 5	3400: 211 Humanities in the Western Tradition	II 4
Latin	3, 4, or 5	3220:121 Beginning Latin I 3220:122 Beginning Latin II	4 4
Modern Languages	3, 4, or 5	3580:101 Beginning Spanish I 3580:102 Beginning Spanish II	4 4
(French depends on Fo	or m/with consultation}	3520:101 Beginning French I 3520:102 Beginning French II	4 4
	Or	3530:101 Beginning German I 3530:102 Beginning German II	4 4
Physics	4 or 5	3650:261 Physics for the Life Sciences I 3650:262 Physics for the Life Sciences II	4 4
	0	3650:291 Elementary Classical Physics 1 3650:292 Elementary Classical Physics II	4 4
Political Science/ American Governmer	4 or 5	3700:100 Government and Politics in the U.S.	4
Political Science/ Comparative Politics	4 or 5	3700:300 Comparative Politics	4
Psychology	4 or 5	3750:100 Introduction to Psychology	3
Statistics	3	3470:260 Basic Statistics	3
	4 or 5	3470: 261 Introductory Statistics I 3470:262 Introductory Statistics II	2 2

Bypassed Credit

Certain courses designated in this Bulletin by each department enable a student to earn "bypassed" credit. A student who completes such a course with a grade of "C" or better is entitled to credit for designated prerequisite courses which carry the same departmental code number. Credit for such bypassed prerequisites shall be included in the total credits earned but shall not count in the quality point ratio, class standing or hours required for graduation with honors. Bypassed credit is not awarded on the basis of completing a course either credit-by-examination or credit/noncredit. Annew and for

			Appioved Iol
Discipline	Course	Prerequisite	Bypassed Credit
Community and	Technical College		
Mathematics	2030:152	2030:151	2030:151
	2030:153	2030:152	2030:152
	2030:154	2030:153	2030:153
	2030:255	2030:154	2030:154
	2030:356	2030:255	2030:255
Office	2540:151	2540:150	2540.150
Administration	2540:253	2540:151	2540:150.1
Buchtel College	of Arts and Science	-04	
Classical Studies	3210:122	3210.121	3210-121
Anthropology and	3210.223	3210:121 2	3210 121 2
Archaeology	3210:224	3210:121 2 223	3210 121 2 223
Alchiecology	3210:303	3210 121 2 223 4	3210.121.2.223.4
	3210:304	3210 121 2 223 4	3210 121 2 223 4
	3220:122	3220:121	3220.121
	3220.223	3220-121 2	3220:121 2
	3220:224	3220:121 2 223	3220.121.2.223
	3220:303	3220 121 2 223 4	3220 121 2 223 4
	3220:304	3220:121,2,223,4	3220:121,2,223,4
Economics	3250:400	3250-201	3250:201
Economico	3250:410	3250:200	3250:201
	0200.410	0200.200	0200.200
English	3300:112*	3300:111	3300:111
Geography	3350:314	3350:310	3350:310
and Planning	3350:442	3350:305	3350:305
	3350:444	3350:305	3350:305
	3350:495	3350:310	3350:310
Mathematics and	3450:210	3450:145 or 141	3450:141
Computer Science	3450:215	3450:145 or 149	3450:145
	3450:216	3450:215	3450:215
	2450-001	0.150.1.10	0.450.4.40
	3450:221	3450:149	3450:149
	3450:222	3450:221	3450:149,221
	3450:223	3450:222	3450:149,221,222
	3400:210	3400:209,3450:208	3400:209
Modern	3500:102	3500:101	3500:101
Languages	3500:201	3500:101,2	3500:101,2
	3500:202	3500:101, 2, 201	3500:101, 2, 201
	3500:422	3500:101, 2, 201, 2	3500:101, 2, 201, 2

* An ACT English score of 28 and an SAT verbal score of 610 is needed to enroll in 3300:112 without the prerequisite

	Course	Prorozuisito	Bypassed Credit
	2500:407	2500.202	3500.101 2 201 2
	3500.497	3500.202	3520.101
Languages, cont.	3520.102	3520.101	3520:101 2
	3520:201	3520.102	3520.101,2
	3520:202	3520.201	3520.101,2,201
	3520:301,2,5,6	3520.202	3520.101,2,201,2
	3520:309,10,11	3520.302 01 300	3520.101,2,201,2
	313 401	3520.202	3520 101 2 201 2
	2520-402	3520.302	3520 101 2 201 2
	2520.402	3520.302	3520 101 2 201 2
	2520:403,4	3020.002	0020.101,2,201,2
	A10 A27 A20 AE0	3520-302 or 306	3520.101.2.201.2
	2520.422	3520.202 01 000	3520 101 2 201 2
	2520.422	3520:202 or 306	3520 101 2 201 2
	3520.400	2520:101	3530-101
	3530.102	2520.102	3520:101 2
	3530:201	3530.102	3520.101,2
	3530.202	3550.201	3330.101,2,201
	3530.301,2,305,0	2520-202	3520-101 2 201 2
	301,2	3530.202	2520-101,2,201,2
	3530:403,4	3030.302	3330.101,2,201,2
	3530:400,7,419,20,		
	431,2,430,0,	2520-202 - 206	2520-101 2 201 2
	439,440	3530.302 01 300	2520.101,2,201,2
	3530.422	2550.202	3550:101,2,201,2
	3550.102	3550.101	3550:101 2
	3550.201	3550.102	3550.101,2
	3550:202	3550.201	3550.101,2,201
	3550:301,2,5,6	3550:202	3550.101,2,201,2
	3570:102	3570:101	35/0.101
	3570:201	3570:102	3570:101,2
	3570:202	3570.201	3570.101,2,201
	35/0:301,2,305,6,	0570.000	0570-101 0 001 0
	309,10	3570.202	3570.101,2,201,2
	35/0:403,4	3570:302	3570:101,2,201,2
	35/0:420,1	3570:301 of 302	35/0:101,2,201,2
	35/0:427,8	3570:202	35/0.101,2,201,2
	3570:439	3570:404	3570.101,2,201,2
	3580:102	3560:101	3560.101
	3580:201	3560.102	3560.101,102
	3080:202	3560.201	3500.101,2,201
	3080:301, 2, 3, 422	3560:202	3500.101,2,201,2
	3560.340,407,6	3560.301 01 302	3500.101,2,201,2
	3060:401 2500:251 402 5 6	3580.301	3000.101,2,201,2
	3080:301,402,0,0	2500.202	2500-101 2 201 2
	431,2,3	3580:302	3580:101,2,201,2
	3080:403	3580:303	3580:101,2,201,2
	3580:409,11,12,15,		
	16, 18, 19, 23, 24	2500-407 400	0500-101 0 001 0
Candinalina	25,27,29,30	3080:407 OF 408	3380:101,2,201,2
StauStics	3470:262	34/0:201	3470:201

College of Nursing RN-BSN Sequence

(Limited to Licensed Registered Nurses)		
8200:446	8200:336,405	8200:205,215,315
	415,436,	330,350,360,370
	440,225	380,410
College of Nursing RN-MSN Seq	uence	
8200:470,485	8200:460,465	8200:101,205,210,220
	436,225	8200:215,325,315,330
		350,360,370,380,410

College Level Examination Program (CLEP)

College Level Examination Program (CLEP) is a national program that offers the opportunity of obtaining college credit by examination. A variety of experiences may have prepared a person to earn college credit. Each institution determines which CLEP tests it will accept, the passing score, and the amount of credit that will be awarded. CLEP examinations for credit toward any degree are not permissible in the term before graduation. Credit by CLEP may not be used to repeat for change of grade.

CLEP tests are administered each month during the week ending with the third Friday of the month. Deadline for the registration form is always the second Friday of the month before the month in which the test is to be taken (5-week order period.) Contact the Counseling, Testing, and Career Center at 330-972-7084 for more information.

The following guidelines outline the terms under which The University of Akron will accept the results of specified CLEP tests for college credit.

General Education Course	Creatts	CLEP Equivalent
English Requirement		
3300:111 English Composition I	4	CLEP Subject Examination in Freshman College Composition, plus essay. (Must receive minimum scale of 60 on the subject examination and pass the essay.)
Sociology Requirement		
3850:100 Intro to Sociology	4	Clep Subject Examination in Introductory Sociology. (Must receive minimum scale of 50 on the subject examination.)
Macroeconomics		
3250:201 Princ. of Macroeconomics	3	Clep Subject Examination in Introductory Macroeconomics. (Must receive minimum scale of 50 on the subject examination.)
Government & Politics in the U.S.		
3700:100 Govt. and Politics in the U.S.	4	Clep subject examination in American Government. (Must receive minimum scale of 50 on the subject examination.)
Natural Science Requirement, Biolog	v	
3100:103 Natural Science Biology	4	Clep subject examination in Biology. (Must receive minimum scale of 50 on the subject examination.)
Natural Science Requirement, Chemi	strv	
3150:100 Chemistry and Society or	3	CLEP subject examination in General Chemistry. (Must receive a minimum
3150:151 Principles of Chemistry I or	4	scale of 50 on the subject examination.)
3150:110 Intro to General Organic and Biochemistry I	3	
Mathematics Requirement		
3450:145 College Algebra	4	CLEP subject examination in College Algebra. (Must receive a minimum scale of 50 on the subject examination.)
Psychology		
3750:100 Introduction to Psychology	3	CLEP subject examination in Psychology. (Must receive a minimum scale of 50 on the subject examination.)

Credit by Examination

£,

A student interested in earning credits by special examination may do so with the permission of the dean of the student's college and the dean of the college in which a particular course is offered and by payment of a special examination fee. The grade obtained in such an examination is recorded on the student's permanent record. Credit by examination is not permitted in the semester before graduation. Credit by examination may not be used to repeat for change of grade.

International Baccalaureate

The University of Akron recognizes the academic quality of the International Baccalaureate (IB) program and the efforts of students enrolled in IB course work by awarding advanced-standing credit for the completion of the IB Diploma. Higher level examination scores are considered for departmental credit in the areas of French, Spanish, German, Geography, Latin, Greek, Economics, Chemistry, History, English, Social Anthropology, Mathematics, and Music. Although minimum scores for the awarding of credit vary by subject area, generally scores of four or five are sufficient. No credit is awarded for IB Subsidiary examinations.

For additional information, contact the University College Dean's Office, located at Spicer Hall 120, 330-972-7066.

Military Credit

The University of Akron awards credit for military experience based upon recommendations by the Commission on Accreditation of Services of the American Council of Education. Block credit is awarded for Basic Training as well as one credit for physical education. Applicability of this credit for a student's degree program will be determined by established University procedures.

In order for credit to be awarded, the student must submit a veteran's DD214 form. In addition, materials such as Course Completion Certificates or Army/ACE Registry Transcript can be used to ensure proper and complete awarding of credit. Documents should be submitted to the Office of the Registrar-Veterans' Affairs. Students interested in the SOC (Service members Opportunity Colleges) program should contact the Academic Adviser/Transfer Specialist in University College.

Tech Prep

Tech Prep is a sequence of study beginning in high school and continuing through at least the associate degree level. Tech Prep prepares students for high-skill technical occupations supported by regional businesses and industries in the areas of business, information, health, and engineering technologies. The Step-Up program integrates high-level academics and occupational training while exposing students to work-world situations.

The University of Akron's application fees are waived for Tech Prep graduates entering the Community and Technical College and Wayne College. Students participating at the high school level are in a prescribed technical track in a designated high school and are eligible for an advanced associate degree curriculum. A special certificate developed by the Ohio Board of Regents will recognize successful completion of the Tech Prep associate degree programs.

For additional information regarding Tech Prep programs, contact Kelly Herold, Tech Prep Coordinator, at 330-972-8832.

Tech Prep Postsecondary Enrollment Option

For Tech Prep students interested in the Postsecondary Enrollment Option, the entrance level grade-point average (GPA) is 3.0 overall with a 21 or higher composite score on the ACT. The college may admit a student with a lower GPA and/or ACT on a case by case basis.

A Tech Prep student will be required to obtain a formal written recommendation letter from the high school (guidance counselor or principal) that indicates the support of the school and that the student shows promise in their technical field.

Tech Prep Postsecondary students will be limited to college course work that directly relates to the associate degree program in their specific Tech Prep Pathway. Students meeting the above requirements will be eligible for PSEO Option B. (Option B allows students to receive high school graduation credit and college credit simultaneously. Textbooks, materials, tuition and fees related to the course work are provided at public expense.)

Additionally, the application fee will be waived for Tech Prep Postsecondary students.

Interested Tech Prep students should take the following steps:

 Obtain a Tech Prep Postsecondary Enrollment Application from the Office of Admissions, The University of Akron, Akron, OH 44325-2001 or from their high school or career center guidance counselor. ١

- Complete and return the application with the recommendation letter and required signatures to Kelly Herold, Tech Prep Coordinator, The University of Akron, Akron, OH 44325-6001.
- Information regarding acceptance into the program, registration for classes and academic advising will be forthcoming in a letter of admission to the Tech Prep Postsecondary Enrollment Options Program.

Transfer Credit

Credit for course work taken at an institution of higher education in the United States which is fully accredited or has been granted candidacy status by Middle States Association of Colleges and Schools/Commission on Higher Education (MSA/CHE); New England Association of Schools and Colleges (NEASC); North Central Association of Colleges and Schools (NCA); Northwest Association of Schools and Colleges (NASC); Southern Association of Colleges and Schools Commission on Colleges (SACS); Western Association of Schools and Colleges Accrediting Commission for Senior Colleges (WASC-Sr.); Western Association of Schools and Colleges Accrediting Commission for Community and Junior Colleges (WASC-Jr.) as designated in Accredited Institutions of Postsecondary Education Programs/Candidates as published for The Council on Post secondary Accreditation (COPA) by the American Council on Education will be listed on The University of Akron official academic record. No grade-point value will appear on the record and no grade-point average will be calculated for the course work listed; however, grade-point average may be considered for purposes of evaluating, ranking, or otherwise determining admissibility to the University or to specific programs. In addition, the name of the institution as well as the time period during which the courses were taken, will be listed on The University of Akron official academic record.

For courses that have been taken at an institution of higher education noted in the reference document above, the dean of the college in which the student intends to obtain a degree will specify which courses, other than general studies, will apply toward the degree requirements at the University. University College will specify which courses listed will apply toward the general education requirements.

CLEP or Advanced Placement credit posted on transcripts from previous institutions is eligible for credit at The University of Akron.

COURSE NUMBERING SYSTEM

Each course at the University has two numbers. One designates the college and department of which it is a part; one specifies the subject matter of the particular course. For instance:

3300:220 English Literature

In the above example, the first four digits of the number (3300) indicate the college and department. In this case, 3000 represents the Buchtel College of Arts and Sciences; 300 refers to the Department of English. The second set of digits (220) following the colon, indicates exactly which course in the Department of English is being specified. The course number also indicates the level at which the course is being taught and the point at which the student is ready to take the course.

An explanation of the course numbering system follows:

100-199	First-year-level courses
200-299	Second-year-level courses
300-399	Third-year-level courses
400-499	Fourth-year-level courses
500-699	Master's-level courses
600-799	J.Dlevel courses
700-899	Doctoral-level courses

When approved 400-level undergraduate courses are taken for graduate credit, they are designated as 500-level courses. A student must apply for and be admitted to the Graduate School to receive graduate credit.

NOTE: Courses listed in the Schedule of Classes published for each term contain an additional three-digit number indicating the specific section(s) offered.

GRADUATION REQUIREMENTS

Requirements for Baccalaureate and Associate Degrees

A candidate for the baccalaureate or the associate degree must:

 File an application for graduation with the registrar. If the candidate plans to complete degree requirements at the end of fall semester, submit an application by or before May 15. If the plan is to complete degree requirements at the end of spring semester, submit an application by or before September 15. Submit an application by or before February 15 for Summer Commencement.

- Eam a minimum of 128 credits for a baccalaureate degree, 64 credits for an associate degree (some programs of study may require more credits) with a minimum 2.00 grade-point average as computed by the Office of the Registrar for work attempted at the University consistent with the Repeating Courses policy. The grade-point average achieved at the time of completion of requirements for a degree will include repeated and reassessed courses which will be used to calculate rank in class and graduation honors.
- Meet all degree requirements which are in force at the time a transfer is made to a degree-granting college. If the student should transfer to another major, then the requirements should be those in effect at the time of the transfer. For a student enrolled in an associate degree program in the Community and Technical College, the requirements shall be those in effect upon entrance into the program.
- Be approved for graduation by appropriate college faculty, Faculty Senate, and Board of Trustees.
- Complete the requirements for a degree in not more than five calendar years from the date of transfer, as defined below. In the event the student fails to complete the degree requirements within five calendar years from the date of transfer, the University reserves the right to make changes in the number of credits and/or courses required for a degree.
- The date of transfer for a student in a baccalaureate program will be the date that the student is accepted by the degree-granting college. For a student enrolled in an associate degree program in the Community and Technical College, the date of transfer refers to the date of entrance into the program.
- Complete a minimum of 32 earned credits in the baccalaureate degree total or a minimum of 16 earned credits in the degree total in residence at The University of Akron.
- Earn the last 32 credits in the baccalaureate degree total or 16 credits in the associate degree total in residence at The University of Akron unless excused in writing by the dean of the college in which the student is enrolled if at least 32 credits (baccalaureate) or 16 credits (associate) have been earned at The University of Akron.
- If a student who has transferred from another institution wishes to present for the student's major fewer than 14 credits earned at The University of Akron, written permission of both the dean and head of the department is required.
- · Discharge all other obligations at the University.

Requirements for Additional Baccalaureate and Associate Degrees

- Meet requirements given in Section 3, Requirements for Baccalaureate and Associate Degrees.
- Earn a minimum of 32 credits which have not counted toward the first baccalaureate degree or 16 credits which have not counted toward the first associate degree.
- Earn the above credits in residence at the University.

Change of Requirements

To accomplish its objectives better, the University reserves the right to alter, amend, or revoke any rule or regulation. The policy of the University is to give advance notice of such change, whenever feasible.

Unless the change in a rule or regulation specifies otherwise, it shall become effective immediately with respect to the student who subsequently enters the University, whatever the date of matriculation.

Without limiting the generality of its power to alter, amend, or revoke rules and regulations, the University reserves the right to make changes in degree requirements of the student enrolled prior to the change by:

- Altering the number of credits and/or courses required in a major field of study.
- Deleting courses.
- Amending courses by increasing or decreasing the credits of specific courses, or by varying the content of specific courses.
- · Offering substitute courses in same/or cognate fields.

The dean of the college, in consultation with the department or division head of the student's major field of study, may grant waivers in writing if a change in rules affecting degree requirements is unduly hard on a student enrolled before the change was effective. The action of the dean of the college in granting or refusing a waiver must be reviewed by the senior vice president and provost on his or her own motion, or at the request of the dean of the college of the student affected, or at the request of the student affected.

Credit and Grade-Point Requirements for Graduation Listed by College and Degrees Granted

		Min. Grade- Point Avge.
Buchtel College of Arts and Sciences	Min. Cr.	Req.
Bachelor of Arts	128	2.00
Bachelor of Science	128	2.00
Bachelor of Science (Chemistry)	128	2.30
Bachelor of Science in Cytotechnology	128	2.00
Bachelor of Arts in Interdisciplinen, Studies	120	2.00
Bachelor of Science in Labor Fronomics	120	2.00
Bachelor of Science in Medical Technology	128	2.00
Bachelor of Science in Political Science/Criminal Justice	131	2.20
Bachelor of Arts (Political Science)	128	2.20
Bachelor of Science in Political Science/Public Policy Management	128	2.20
Bachelor of Arts (Sociology)	128	2.20
Bachelor of Arts (Sociology/Law Enforcement)	128	2.20
Bachelor of Arts (Sociology/Corrections)	128	2.20
Bachelor of Arts in Interdisciplinary Anthropology	128	2.00
College of Engineering*		
Bachelor of Science in Biomedical Engineering	137	2.00
Bachelor of Science in Chemical Engineering	137	2.00
Bachelor of Science in Civil Engineering	137	2.00
Bachelor of Science in Computer Engineering	137	2.00
Bachelor of Science in Electrical Engineering	137	2.00
Bachelor of Science in Engineering	137	2.00
Bachelor of Science in Mechanical Engineering	137	2.00
Bachelor of Science in Mechanical Polymer Engineering	140	2.00
College of Education**		
Bachelor of Arts in Education	128	2.50
Bachelor of Science in Education	128	2.50
Bachelor of Science in Technical Education	128	2.50
College of Business Administration		
Bachelor of Science in Accounting	128	2.00
Bachelor of Science in Business Administration	128	2.00
Bachelor of Science in Business Administration/Advertising	120	2.00
Bachelor of Science in Business Administration/International Business	120	2.00
Bachelor of Science in Business Administration/Marketing	128	2.00
Bachelor of Science in Industrial Management	128	2.00
College of Fine and Applied Arts		
Bachelor of Arts		
Studio Art	128	2.00
Art History	128	2.00
Interdisciplinary Studies	128	2.00
Bachelor of Fine Arts		
Ceramics	128	2.00
Graphic Design	131	2.00
Metalsmithing	128	2.00
Painting and Drawing	128	2.00
Photography	128	2.00
Printmaking	128	2.00
Sculpture Response of Arts	120	2.00
Earnity and Child Development	128	2.00
Food Science	128	2.00
Pre-Kindergarten	128	2.00
Child-Life Specialist	128	2.00
Bachelor of Arts in Fashion Merchandising		
Apparel Track	131	2.00
Home Furnishings Track	131	2.00
Fiber Arts Track	131	2.00
Bachelor of Science in Dietetics	137-142	2.00
Bachelor of Science in Family and Consumer Sciences Education	145-148	2.00
Bachelor of Arts in Interior Design	130	2.00
Bachelor of Arts in Music	131	2.00
Bachekor of Music	128-144	2.00
History and Literature	133	2.00
Composition	133	2.00
Jazz Studies	135	2.00
Music Education	135-144	2.00
Bachelor of Arts in Communication [†]	128	2.00
Business and Organizational Communication [†]	128	2.00
Interpersonal and Public Communication ^T	128	2.00
Mass Media Communication ^T	128	2.00

 An engineering grade-point average of 2.00 is required in all engineering courses attempted (4XXX prefix).

** Grade-point average of 2.50, effective July 1, 1991, for entering freshmen.

*** A separate 2.00 is required in the major and a separate 2.00 is required in all business and economics courses.

† Grade-point average of 2.00 overall, and a separate GPA of 2.30 in all courses taken in the School of Communication.

		Min. Grade-
College of Fine and Applied Arts, continued	Min. Cr.	Req.
Bachelor of Arts in Speech-Language Pathology and Audiology	128	2.00
Bachelor of Arts in Social Work	128	2.00
Bachelor of Arts in Theatre Arts	128	2.00
Bachelor of Fine Arts in Dance	131	2.00
		2.00
College of Nursing		
Bachelor of Science in Nursing	134	2.30
Community and Technical College		
Associate of Arts	64	2.00
Associate of Individualized Study	64	2.00
Associate of Labor Studies (inactive)	64	2.00
Business Management Technology in Accounting General Busin	2284	
Management, Small Business	64	2.00
Computer Information Systems in Programming Specialist	65	2.00
Computer Information Systems in Microcomputer Specialist	67	2.00
Hospitality Management In: Restaurant Management	67	2.00
Culinary Arts	72	2.00
Hotel/Motel Management	68	2.00
Hotel Marketing/Sales	64	2.00
Marketing and Sales Technology	64	2.00
Office Administration in:	66	2.00
International Secretarial	70	2.00
Medical Secretarial		
Transportation	64	2.00
Associate of Applied Science in:		
American Sign Language Interpreting and	74	2.00
Community Services Technology	64	2.00
Criminal Justice Technology	64	2.00
Drafting & Computer Drafting Technology	68	2.00
Educational Technology	64	2.00
Electronic Engineering Technology	71	2.00
Electromechanical Service Technology	64 64	2.00
Legal Assisting Technology	70	2.00
Manufacturing Engineering Technology in:		
Computer-Aided Manufacturing	64	2.00
Industrial Supervision	67	2.00
Mechanical Engineering Technology	69	2.00
Polymer Technology	68	2.00
Radiologic Technology	74	2.00
Respiratory Care	71	2.00
Surgical Assisting Technology in:	60	2.00
Surgical Lechnologist Surveying and Construction Engineering Technology in:	08	2.00
Construction Option	69	2.00
Surveying Option	69	2.00
Bachelor of Arts in Interdisciplinary Studies		
Bachelor of Science in	121	2.00
Automated Manufacturing Engineering Technology Bachelor of Science in Construction Engineering Technology	138	2.00
Bachelor of Science in Electronic Engineering Technology	139	2.00
Bachelor of Science in Emergency Management	132.5-138	2.00
Bachelor of Science in Mechanical Engineering Technology	138	2.00
Bachelor of Science in Surveying and Mapping	137	2.00
Wayne College		
Associate of Arts	64	2.00
Associate of Science	64	2.00
Associate of Applied Business in:	04	2.00
Business Management Technology in:		
Accounting Option	67	2.00
Data Management Option/Networking	64	2.00
Data Management Option/Software	64 64	2.00
General business Option Health Care Office Management	67	2.00
Office Administration in:	5.	2.00
Executive Assistant Option	66	2.00
Legal Administrative Assistant Option	64	2.00
Health Care Administrative Assistant Option	65	2.00
Associate of Applied Science in: Computer Service and Network Technology	66	2.00
Environmental Health and Safety Technology	66	2.00
Social Services Technology	68	2.00

Graduation with Honors*

Effective Fall 2001

For a student who is being rewarded an initial baccalaureate degree and who has completed 60 or more credits at the University, the degree

will be	if the overall
designated	grade-point
•	average is
Summa Cum Laude	3.80 or higher
Magna Cum Laude	between 3.60 and 3.79
Cum Laude	between 3.40 and 3.59

Effective Fail 2001

For a student who is being rewarded an initial associate degree and who has completed 30 or more credits at the University, the degree

will be designated	if the overall grade-point average is
with highest distinction	
with high distinction	between 3.60 and 3.79
with distinction	between 3.40 and 3.59

For a student who entered the University prior to January 1982 and is being awarded an initial baccalaureate degree and who has completed 60 or more credits at the University, the degree

will be designated	if the overall grade-point average is
Summa Cum Laude	3.75 or higher
Magna Cum Laude	between 3.50 and 3.74
Cum Laude	between 3.25 and 3.49

For a student who entered the University prior to January 1982 and is being awarded an initial associate degree and who has completed 30 or more credits at the University, the degree

will be	if the overall
designated	grade-point
	average is
with distinction	

Fees and Expenses

Fees subject to change without notice

Student Expenses

Despite the willingness of taxpayers and generous friends of the University to help support higher education, some portion of this total expense must be borne by the student.

Following are comprehensively outlined fees for students at the University who are studying for credit and noncredit in all areas of instruction. Included also are the additional expenses required for special academic services available to students, and other miscellaneous fees, such as application and graduation fees.

It is the responsibility of the student to know the correct amount of all fees, including the non-Ohio resident surcharge.

In any question concerning fees, surcharge, or residence, it is the responsibility of the student, parents, or court-appointed guardian, to furnish such proof as may be required by The University of Akron. A student who is in doubt about residency status should consult with the University registrar.

It is the responsibility of the registrar to assess fees and surcharges at the time of registration; information given by the student at that time is used in the assessment. Each registration is later audited by the University auditor, and appropriate additional charges or refunds will be made.

All fees and surcharges are due at the time of registration or on the specified fee payment deadline. The status of the student as of the opening day of the semester or session for which registered will determine the final, correct amount of fees and surcharges.

An Installment Payment Plan for tuition and fees is available to all students. For information, see page 59 of this Bulletin.

Tuition and Fees

•	Tuition:	
	Undergraduate	
	1-11.5 credits	\$181.25 per credit
	12-15 credits	\$2,175.07 per semester
	Over 15 credits	\$2,175.07 + \$181.25 per credit over 15
•	Tuition Surcharge: (Nonresidents of Ohio pay the surcharge in addition to	the instructional fee)*
	Undergraduate	
	Reduced Surcharge for academically qualified stud	dents \$100.00 per credit
	All others	\$206.70 per credit
٠	General Fee:	
	Undergraduate	\$19.15 per credit to a maximum of
		\$229.80 per semester
•	Facilities Fee:	
	Undergraduate	\$5.00 per credit to a maximum of
	- · · · · · · · · · · · · · · · · · · ·	\$60.00 per semester
C	ommunity and Technical College:	
•	Tuition:	
	Undergraduate	
	1-11.5 credits	\$153.24 per credit
	12-15 credits	\$1,838.97 per semester
	Over 15 credits	\$1,838.97 + \$153.24 per credit over 15
•	Tuition Surcharge:	
	(Nonresidents of Ohio pay the surcharge in addition to	o the instructional fee)*
	Reduced Surcharge for academically gualified studen	ts \$100.00 per credit
	All others	\$195.00 per credit
	General Fee:	
	Undergraduate	\$16.19 per credit to a maximum of
		\$194.23 per semester
	 Facilities Fee: 	
	Undergraduate	\$5.00 per credit to a maximum of

\$60.00 per semester

Admission Application Fee

Entering postbaccalaureate or graduate (Note: fee deferred for recruited graduate minority students.) Transient students (first enrollment only)	International Students	\$50
Entering postbaccalaureate or graduate (Note: fee deferred for recruited graduate minority students.)	Transient students (first enrollment only)	\$30
Entering postbaccalaureate or graduate	(Note: fee deferred for recruited graduate minority students)	
•	Entering postbaccalaureate or graduate	\$30

Orientation Program Fees New Student Orientation Parent/Guest

Adult Student Program	\$40
Transfer Transition	\$40
Evening Program	\$40
International Student Orientation	\$45

\$40

\$40

Registration and Other Related Fees

Administrative Fee Assessed each term (all students except high school students taking University courses; transient, unclassified and special students; and undergraduate studen who have completed 96 credits or more)	\$11/term ts
Late Payment Fee (assessed to students who have not paid for fees by the first day of term)	\$100
Late Registration Fee (assessed to any continuing student who initially registers during late registratio	\$100 n
Transcripts	¢10
Transcript Evaluation for Certification Fee	\$15
Co-op course fee	\$55
International Program Fees Visa Form (spouse and/or dependents) Practical Training (non-enrolled students) Study Abroad (non-refundable deposit)	\$50 \$35 \$50

Alternative Credit Fees

Bypassed credit, per credit	\$5	
CLEP, per credit awarded	\$8 (plus ETS fee paid to ETS)	
Credit by Examination (undergraduate and postbaccalaureate) per credit		

Graduation Fees

Graduation Late Application Fee	\$10
Graduation Late Application Fee	\$10
Minor Application Fee and/or Second Major Application Fee	\$5

Auditors

The fees for an auditor in any course or group of courses are the same as if taken for credit.

Miscellaneous Fees

udiology and Speech Center	
Speech and Language Services	
Speech/Language Screening	\$20
Speech Evaluation	\$60
Language Evaluation	\$60
Office Consultation (per hour)	\$60
Speech/Language Individual Treatment (per hour)	\$60
Speech/Language/Voice Group Tx (per hour)	\$30
Post-Cochlear Implant (per hour)	\$60
Assessment of Aphasia	\$60
Development of Testing/Cognitive	\$100
Modification of SpeechWoice Device	\$20
Development of Cognitive Skills	\$60
Audiological Services	
Hearing Screening	\$15
Audiology Evaluation	\$55
Auditory (Re)Habilitation Individual (per hour)	\$60
Auditory (Re)Habilitation Group (per hour)	\$30
Immitance (Typmanometry)	\$20
Auditory Evoked Potentials Testing	\$225

Otoacoustic Emission Tests	\$60
Site of Lesion Tests (each)	\$20 Acquisition cost* x 2.8
Hearing Ads (Conventional) Hearing Aids (Programmable)	Acquisition cost* x 2.0
Earmold Services (Swim Molds or Ear Plugs)	Acquisition cost* x 2.0
Hearing Aids Accessories	Acquisition cost* x 1.5
Assisted Listening Devices	Mfg. Sug. Retail Price
Hearing Aid Evaluation (no purchase)	· \$60
Hearing Aid Hepair/Service	\$25
Career Advantage Services Fee	*0
Contex for Child Development /Child care facility/	ts 52 per credit nour
Registration:	
Academic year	\$35
Summer session	\$15
Both summer sessions	\$20
Insurance:	•••
Child, per academic year Child, per summer (all ages)	\$20
Enrollment:	\$12
University@ Full time, per week (after 45 hours, charged h	ourty) \$125
Community Full time, per week (after 45 hours, charged h	ourly) \$130
Hourly for fewer than 15 hours per week for faculty/staff (as of Fail 1994) \$4.25
Hourly for UA student families only	\$3.25
Full-time Toddler Program, per week (up to 45 bours)	(120 C) Fail (1994) \$4.25
University@	\$120
Community	\$140
Schedule Changes \$3	(\$5.50 for subsequent changes)
Center for Nursing	
Initial Comprehensive Bio/Psycho/Social History	\$20
Group Sessions (per session, per member)	sions all available) \$40
Family Sessions (three or more persons)	\$60
Special Services	
Percent Body Fat Testing	\$10
Specific Blood & Laboratory Test	per contract with Lab Care
and triol/cerides Profile	testeroi \$15
Total cholesteroi, cholestech LDX, LDL and HDL	\$12
Massage therapy by licensed masso therapist	
15 minutes	\$15
30 minutes	\$25
Minimum Fee	440
	\$2
College of Education, Department of Physical and Health i	\$2 Education
College of Education, Department of Physical and Health I Fitness Assessment Package	S2 Education
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students	52 Education \$15
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff	\$2 Education \$15 \$20
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Emass Services	\$2 Education \$15 \$20 \$225
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription	\$2 Education \$15 \$20 \$25 \$15
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight	\$2 Education \$15 \$20 \$25 \$15 \$25 \$15
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA	\$2 Education \$15 \$20 \$25 \$15 \$25 \$25 \$25 \$25 \$25
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Text	\$2 Education \$15 \$20 \$25 \$25 \$25 \$25 \$25 \$25
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 May Test	\$2 Education \$15 \$20 \$25 \$15 \$25 \$5 \$5 \$5 \$5 \$60
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume	\$2 Education \$15 \$20 \$25 \$15 \$25 \$5 \$5 \$60 \$60 \$60 \$15
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG	\$2 Education \$15 \$20 \$25 \$15 \$25 \$5 \$5 \$60 \$60 \$10 \$10
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment	\$2 Education \$15 \$25 \$15 \$25 \$5 \$5 \$60 \$60 \$80 \$15 \$10 \$10 \$10 \$15 \$10 \$10 \$15 \$10 \$15 \$10 \$15 \$10 \$15 \$10 \$15 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$2
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold	\$2 Education \$15 \$20 \$25 \$25 \$25 \$5 \$60 \$55 \$60 \$60 \$15 \$10 \$15 \$150
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program Monthly rate base Eaculty/Staff Efress & Molences Program Monthly rate base	\$2 Education \$15 \$20 \$25 \$25 \$5 \$60 \$60 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Welness Program — Monthly rate base Fourthy Test of Caract	\$2 Education \$15 \$20 \$15 \$25 \$5 \$5 \$60 \$80 \$15 \$15 \$10 \$10 \$15 \$10 \$10 \$15 \$10 \$10 \$15 \$10 \$15 \$15 \$25 \$60 \$60 \$15 \$25 \$25 \$60 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base	\$2 Education \$15 \$20 \$15 \$25 \$5 \$5 \$60 \$60 \$15 \$100 \$15 \$100 \$15 \$100 \$15 \$100 \$15 \$100 \$25 \$100 \$25 \$100 \$25 \$100 \$25 \$26 \$26 \$26 \$27 \$26 \$27 \$27 \$26 \$27 \$27 \$27 \$27 \$27 \$27 \$27 \$27 \$27 \$27
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP)	52 Education \$15 \$20 \$15 \$25 \$5 \$5 \$60 \$60 \$10 \$100 \$5 \$100 \$100 \$100 \$100 \$100 \$
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing	\$2 Education \$15 \$20 \$25 \$5 \$5 \$60 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test	\$2 Education \$15 \$20 \$25 \$5 \$5 \$5 \$60 \$15 \$10 d on 2 sessions per week \$40 ad on 3 sessions per week \$12 (plus ETS fee paid to ETS) \$135
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test VO2 Max Test VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Welness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test	\$2 Education \$15 \$20 \$25 \$15 \$25 \$5 \$5 \$60 \$15 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Foculty/Staff Fitness & Wellness Program — Monthly rate base Foculty/Staff Fitness & Wellness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour	\$2 Education \$15 \$20 \$15 \$25 \$5 \$5 \$5 \$60 \$60 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students FacultyStaff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test twith ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 br. class period)	52 Education \$15 \$20 \$25 \$5 \$5 \$60 \$60 \$15 \$150 d on 2 sessions per week \$100 \$100 \$5 \$150 d on 3 sessions per week \$12 (plus ETS fee paid to ETS) \$12/hr \$135 \$15 \$15 \$100 \$15 \$15 \$100 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee	\$2 Education \$15 \$20 \$25 \$5 \$5 \$60 \$10 \$100 \$5 \$100 \$100 \$100 \$100 \$100 \$
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HRVBP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Senvice Charge	\$2 Education \$15 \$20 \$25 \$5 \$5 \$60 \$10 \$10 \$10 \$12/hr \$135 \$12/hr \$135 \$12/hr \$135 \$40 \$12/hr \$135 \$45 \$100 \$15 \$150 \$120/hr \$135 \$450 \$100 \$150 \$100 \$100 \$250 \$100 \$250 \$100 \$250 \$100 \$250 \$100 \$250 \$ \$250 \$ \$250 \$ \$250
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Welness Program — Monthly rate base Faculty/Staff Fitness & Welness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters)	\$2 Education \$15 \$20 \$25 \$15 \$25 \$5 \$60 d on 2 sessions per week \$10 d on 3 sessions per week \$12 (plus ETS fee paid to ETS) \$12/hr \$135 \$45 \$100 \$12/hr \$135 \$45 \$100 \$12/hr \$135 \$45
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Foculty/Staff Fitness & Wellness Program — Monthly rate base Foculty/Staff Fitness & Wellness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (2 classes per week)	\$2 Education \$15 \$20 \$25 \$25 \$5 \$5 \$60 \$15 \$15 \$15 \$15 \$10 \$10 \$12 (plus ETS fee paid to ETS) \$12/pr \$135 \$135 \$45 \$100 \$12/pr \$135 \$15 \$12/pr \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Thress & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week)	\$2 Education \$15 \$20 \$25 \$5 \$5 \$60 \$60 \$60 \$15 d on 2 sessions per week \$40 on 3 sessions per week \$12 (plus ETS fee paid to ETS) \$12/hr \$135 \$12.0 \$15.0\$\$15.0\$\$1
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate II (7 classes per week)	\$2 Education \$15 \$20 \$25 \$5 \$5 \$60 \$60 \$15 \$100 \$5 \$100 \$100 \$5 \$100 \$100 \$5 \$100 \$100
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test twith ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Acbademic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate II (7 classes per week) Beginner B (3 classes per week) Beginner B (3 classes per week)	32 Education \$15 \$225 \$15 \$25 \$5 \$50 \$60 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$112 \$13 \$100 \$100 \$25 \$2,376 \$2,272 \$1,776 \$1,320 \$1,000
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HRVBP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate II (6 classes per week) Beginner B (2 classes per week) Beginner A (2 classes per week)	S2 Education \$15 \$25 \$25 \$55 \$60 \$15 \$25 \$55 \$60 \$15 \$100 \$110 \$110 \$112 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$100 \$25 \$2,376 \$2,376 \$1,320 \$1,000 \$667
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Welness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate II (6 classes per week) Intermediate II (6 classes per week) Beginner A (2 classes per week)	S2 Education \$15 \$20 \$25 \$15 \$25 \$15 \$25 \$55 \$60 \$15 \$16 \$17 \$13 \$140 n 3 sessions per week \$12 (plus ETS fee paid to ETS) \$122/br \$135 \$45 \$100 \$12 \$12 \$12 \$12 \$12 \$12 \$135 \$45 \$100 \$25 \$2,376 \$2,376 \$2,376 \$1,320 \$1,000 \$667 \$336 \$25
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Foculty/Staff Fitness & Wellness Program — Monthly rate base Foculty/Staff Fitness & Wellness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate I (6 classes per week) Intermediate I (6 classes per week) Advanced Beginner (4 classes per week) Beginner B (3 classes per week) Pre-Ballet (1 class per week) Adults - Ballet and Pilates-based Clases (1 class per week) Adults - Ballet and Pilates-based Clases (1 class per week) Adults - Ballet and Pilates-based Clases (1 class per week)	\$2 Education \$15 \$20 \$15 \$25 \$5 \$5 \$5 \$60 \$60 \$100 \$12/hr \$100 \$25 \$100 \$1,776 \$1,320 \$1,000 \$1,000 \$1,000 \$3667 \$336 \$336 \$336
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Careor Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Beginner A (2 classes per week) Beginner A (2 classes per week) Beginner A (2 classes per week) Advanced Beginner (4 classes per week) Pre-Ballet (1 class per week) Advits - Ballet and Pilates-based Clases (1 class per week) Tap	S2 Education \$15 \$225 \$15 \$225 \$5 \$5 \$60 \$60 \$100 \$100 \$100 \$100 \$100 \$100 \$112 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$135 \$100 \$12 \$135 \$100 \$117 \$100 \$25 \$2,376 \$2,072 \$1,320 \$1,000 \$336 \$336 \$336 \$336
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students FacultyStaff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate II (7 classes per week) Beginner B (3 classes per week) Reginner B (3 classes per week) Beginner A (2 classes per week) Pre-Ballet (1 class per week) Advanced Beginner (4 classes per week) Pre-Ballet (1 class per week) Pre-Ballet (1 class per week) Advanced Beginner (4 classes per week) Pre-Ballet (1 class per week) Pre-Ballet (1 class per week) Advanced Seginner (4 classes per week) Prote (1 class per week) Advanced Seginner (4 classes per week) Pointe (1 class per week) Advanced Seginner (4 classes per week) Beginner Seginner (4 classes per week) Pointe (1 class per week) Advanced Seginner (4 classes per week) Beginner (4 classes per week) Pointe (1 class per week) Pointe (1 class per week) Pointe (1 class per week) Pointe (1 class per week) Pagumer (5 classes per week) Pagu	S2 Education \$15 \$225 \$15 \$225 \$5 \$60 \$60 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$112 \$13 \$100 \$100 \$100 \$1,200 \$1,320 \$1,320 \$1,320 \$1,320 \$1,320 <
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test twith ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Advanced (9 classes per week) Intermediate II (7 classes per week) Beginner A (2 classes per week) Beginner B (3 classes per week) Advanced Beginner (4 classes per week) Beginner B (2 classes per week) Advanced Beginner (4 classes per week) Advanced Beginner (4 classes per week) Beginner B (2 classes per week) Advanced I (1 class per week) Advanced Beginner (4 classes per week) Beginner B (2 classes per week) Advanced Beginner (4 classes per week) Beginner B (2 classes per week) Advanced Beginner (4 classes per week) Beginner B (1 class per week) Advanced Beginner (4 classes per week) Beginner B (3 classe	S2 Education \$15 \$225 \$15 \$225 \$5 \$5 \$60 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$112 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$110 \$12 \$117 \$100 \$125 \$2,376 \$2,272 \$1,776 \$1,320 \$1,000 \$667 \$336 \$336 \$336 >\$336
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Faculty/Staff Fitness & Wellness Program — Monthly rate base Counseling, Testing and Career Center ACT Test College Level Placement Exam Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Professional Consultation Fee per hour Dance Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate II (7 classes per week) Intermediate II (7 classes per week) Advanced Beginner (4 classes per week) Beginner B (3 classes per week) Advanced Beginner (4 classes per week) Advanced I (1 class per week) Advanced I (1 class per week) Advanced Beginner (1 class per week) Advanced I (1 class per week) Pro-Ballet and Pilates-based Classes (1 class per week) Pro-Ballet I (1 class per week) Advanced I (1 class per week) Ad	S2 Education \$15 \$225 \$15 \$25 \$5 \$60 \$10 \$60 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$11 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$13 \$10 \$17 \$10 \$1,000 \$667 \$336 \$10 \$336 \$336 \$336 \$336
College of Education, Department of Physical and Heelth I Fitness Assessment Package UA Students Faculty/Staff Community Special Fitness Services Exercise prescription Hydrostatic weight BIA Skinfold EKG Stress Test VO2 Max Test Residual Volume VO2 Max Test with ECG HR/BP Assessment Lactate Threshold Cardiovascular Rehabilitation Program — Monthly rate base Faculty/Staff Fitness & Welness Program — Monthly rate base Faculty/Staff Fitness & Welness Program — Monthly rate base Faculty/Staff Fitness & Welness Program (CLEP) Correspondence Testing Individual Administration of A.C.T. Residual Test Miller Analogies Test Pace Institute Audition Fee (per 1.5 hr. class period) New Student Registration fee Refund Service Charge Academic Year (two 16-week semesters) Advanced (9 classes per week) Intermediate II (7 classes per week) Intermediate I (6 classes per week) Intermediate II (6 classes per week) Intermediate II (6 classes per week) Mather B (3 classes per week) Beginner A (2 classes per week) Pre-Ballet (1 class per week) Advanced Beginner (4 classes per week) Beginner A (2 classes per week) Tap Summer (four weeks) Intermediate I (1, 2, 3, or 4 weeks) Advanced to (1, 2, 3, or 4 weeks) Advanced beginner (1, 2, 3, or 4 weeks) Advanced beginner (1, 2, 3, or 4 weeks)	S2 Education \$15 \$25 \$15 \$25 \$15 \$25 \$55 \$60 \$15 \$15 \$15 \$16 \$25 \$15 \$25 \$60 \$15 \$100 \$12 (plus ETS fee paid to ETS) \$12/hr \$135 \$45 \$100 \$12/hr \$135 \$45 \$100 \$12/hr \$135 \$45 \$100 \$12/hr \$135 \$45 \$100 \$100 \$22,376 \$2,376 \$2,376 \$2,376 \$336 \$336 \$336 \$336 \$336 \$336 \$336

A sliding scale, or the Health and Human Services guidelines on poverty, will be used if the client has
no insurance and if the family income and the number of dependents indicates there is a need.
 Faculty/staff/students

Advanced beginner special (1, 2, 3, or 4 weeks)	\$175, \$316, \$456, or \$568
Beginner "B" (1, 2, 3, or 4 weeks)	\$55, \$110, \$165, or \$220 \$33, \$66, \$99, \$132
Pre-Ballet (1, 2, 3, or 4 weeks)	\$24, \$46, \$68, or \$88
Pre-schoolers	\$51
Adults - beginners to intermediate I-II (all classes for 4 weeks)	\$40
Ballet and Pilates Classes (5 weeks) Pointe Class (5 weeks)	\$55 \$42.50
Tap (2 classes per week)	\$88
Developmental Support Fee	
Assessed to all students enrolled in Developmental courses	\$2 per credit hour
Division of Continuing Education	
Transcript fee, first print	\$4
Each additional copy Each duplicate of certificate of completion	\$2
Engineering Infrastructure Fee - All Engineering Courses	
Infrastructure Fee – all engineering courses	\$11 per credit hour
English Language Institute	
Tuition fee, semester	\$3,500
8-week summer program	\$1,950
Materials fee, per level, per semester/8-week session	\$50/40
Health Services	,
Allergy injections (subsequent injections are \$1)	At Cost
Laboratory Tests	At Cost
Prescriptions and Medications	At Cost
	¢10
"Insufficient Funds" or returned check cherne and VISA /Marti	amand
Returns for Insufficient Funds	stanta \$20
International Programs	
International Student/Teacher Identity Cards	\$22
Laboratory breakage and late service deposit (refundable)	\$20
Liability Insurance Fee, Student Nursing	\$15
Liability Insurance Fee, Allied Health Technology/Surgeon's As	ssistant \$61.50
Liability Insurance Fee, Allied Health Technology/Other than S	urgeon's Assistant \$15
Library Fees (Bierce, Aubum Science and Wayne)	
Overdue materials (plus \$1 fee if invoiced)	
Non-University borrowers (\$10 maximum)	. 10/day 25/day
Replacement	Cost plus \$20 surcharge
Fines for recalled materials	\$1/day
Fines for hourly reserve materials	\$.50/hour (\$20 max.)
Fines for OhioLINK loans	\$.50/day (\$20 max.) \$.50/day (\$15 max.)
Photocopy (per copy, depending on machine used)	up tp .10/pg.
Microcopy (per copy, depending on machine used)	.2530
Black and white	10/00
Color	.10/pg.
Research Service (1-hour minimum charged)	
UA students, faculty and staff	At cost
Computer-Based Search Service (\$5 minimum, no refunds)	590/nour, plus costs
UA students, faculty and staff	At cost
Others	\$40/hour plus costs
Locker fee (\$3 refundable fall-spring semesters)	\$10
Locker fee (\$3 refundable, spring semester only)	\$7
Locker fee, physical education and Schrank Hall (\$3 refundable)	per semester \$7
Ocasek Natatorium	
University arouns during open building hours	cont of lifequards only
exclusive or special use (per employee, per hour)	\$10.50/hr.
Swimming lessons Infant and Preschool (8 one-half hour session	ns) \$30
All other swimming lessons (8 one-half hour sessions)	\$25
University groups during pormal working hours	No charge
Outside of normal working hours, per hour, per court	s5
Broken racquet replacement	\$30
Broken eyewear replacement	\$10
Single use quest pass	5)
10-use guest pass	\$20
Weight & Exercise	\$10 per hour
Placement Services	
Mailing of professional credentials prepared and maintained by Placement Office for students and alumpi to proceeding and	anlaunza dat
Resume Xpert-Plus software	10 spicyers. \$4 \$20
Registration Fee for alumni (covers 12-month cost of employer	referrals) \$25
Vacancy Bulletin subscription for alumni (12 issues)	\$25
Storoge Design Destal for Marchaeler Technology	\$15
Transmint multication for Mechanical Technology (\$2 refundab	ie) \$5
Industrial Evaluation for I secting Certification Fee	\$15
Police Service Cells Kernetiste and the	
Police Report – 1-5 pages	\$10
6 or more pages	.05/page
Fingerprinting – Students, faculty and staff	\$5/card
Photo	\$15/card
	20

Parking Fees

Stud	ent (enrolled for any number of credits):	
1	per semester (Fall and Spring)	\$80
:	Summer session	\$32
Tem	porary permit and one-day permits, per day,	
	including workshops and conferences)	\$3 per day
Corr	imercial visitor:	
	per semester (Fall and Spring)	\$80
	Summer session	\$45
Rep	acement parking permit service charge	1/2 current permit cost
Spe	al University event parking, per vehicle, each event	Up to \$4 maximum
Spe	cial non-University event parking, per vehicle, each event	Up to \$5 maximum
Vieit	ing Partring	
VISIL	ng raking. matar parbour	Un to \$1 maximum
	pre-arranged permit for one day or more	\$2.50 per day
	of A ner nuarter hour (\$3 max)	\$.25
Mot	orrude nemit:	•
11101	per semester (Fail and Spring)	\$25
	Summer Session	\$10
	as secondary permit (Fall, Spring, Summer)	\$4
Park	ing Fines:	
Vink	tions:	
(1)	Faikine to display a valid permit	\$5
(2)	Permit improperty displayed	\$5
(3)	Parking in a area for which permit is unauthorized and/or invalid	\$5
(4)	Prohibited parking marked by signs/markers	
()	(other than firelanes and handican)	\$5
(5)	Parking beyond humper blocks or boundaries	\$5
(0)	Paining beyond bumper blocks of boundaries	\$5
	Falling und grass	\$5
(7)	Expired parking meter	\$5
(8)	VISITOR area writhout a valid boket displayed	400 65
(9)	Driving on the sloewalk	\$~ \$5
(10)	Unving on the grass	\$~ \$5
(11)	Exceeding posted unre white	40 \$5
(12)	Failure to remit the Special Event Fee	40 65
(13)	Failure to need directional signs	\$10
(14)	Parking in a drive (not blocking)	\$10
(15)	Parking in a doorway (not blocking)	\$10
(16)	Parked in a loading zone (not blocking)	\$10
(17)	Marked on a sloewalk (with complainant)	\$15 \$15
(18)	Not needing oncer or parking employee	\$10 \$20
(19)	Prohibited parking in a treate	\$20
(20)	Blocking & Orve (with complainant)	920 \$20
(21)	Blocking a doorway (with complainant)	\$20
(22)	Blocking a sidewalk (with complainant)	\$20
(23	Blocking a vehicle (with complainant)	\$20
(24)	Parking in a handicap area	\$250
(25)	Blocking a handicap ramp	900 650
(26	Displaying a faise permit	900 (ED)
(27	Displaying an altered permit	004
(28	Displaying a forged permit	20U
(29	Displaying a lost permit	900 (***
(30	Displaying a stolen permit	200
•	All fines paid after thirty (30) calendar days from date of violation	Add 20% late fee
•	Vehicles will be booted for violations totaling \$40 or more	
-	Boot fee:	\$20

Technology Fees

Academic Level	
0-31.5 Credits	Exempt
32 Credits or More	\$11 per credit hour
Graduate	\$13.50 per credit hour

Note: An additional technology fee for the College of Engineering course, "Tools for Engineering" (4100:101) will be \$11 per credit hour.

Course Materials Fee Schedule*

For the following undergraduate courses, the fee noted will be assessed to cover the cost of instructional materials.

Community and Technical College

Course	nin recinition conede		Course
Number	Course Title	Credits	Fee
	Technical Depend White	0.00410	£10
2020:222	Lechnical Heport Writing	3	\$1U \$1E
2020:224	Writing for Advertising	4	\$15 \$15
2200:240	Diversity in Early Childhood Litemay	3	\$15 \$15
2200:247	Diversity in Early Childhood Literacy	5	\$50
2200.295	Amorican Sign Language I	4	\$15
2210.112	Active Company and Structure 1	3	\$15
2210.114	American Sign Language II	4	\$15
2210.122	Advanced Findersnelling and Numbers	2	\$15
2210.120	American Sign Language III	4	\$15
2210:236	Consecutive Interpreting	4	\$15
2210:238	American Deaf Culture	3	\$15
2210:242	American Sign Language IV	4	\$15
2210:244	Simultaneous Interpreting	4	\$15
2210:248	Interpreting Practicum I	2	\$15
2210:252	Interpreting Practicum II	3	\$15
2210:254	Applied Ethics: Interpreting	4	\$15
2220:250	Criminal Case Management	6	\$40
2220:291	Special Topics: Criminal Justice	1-4	\$125
2220:293	Special Topics: Criminal Justice	1-4	\$50
2220:296	Current Topics: Criminal Justice	3	\$10
2230:104	Fire Investigation Methods	3	\$20
2230:153	Principles of Fire Protection and Life Safety	3	\$20
2230:205	Fire Detection and Suppression Systems	3	\$15
2230:206	Fire Detection and Suppression Systems II	3	\$15 \$15
2235:305	Principles of Emergency Management	3	\$15 \$15
2235:405	Advanced Commercial Photography	3	\$25
2240:250	Advanced Commercial Photographic Practicum	3	\$25
2240:252	ST: Reginging Typesetting	1-3	\$25
2240.290	Introduction to Community Service	3	\$8.25
2260.100	Introduction to Gerontological Services	3	\$7.30
2260:210	Addiction Education and Prevention	2	\$7.50
2260:261	Addiction Treatment	3	\$17
2260:267	Addiction Assessment and Treatment Planning	3	\$10
2260:278	Techniques of Community Work	4	\$6
2280:121	Fundamentals of Food Preparation I	4	\$100
2280:122	Fundamentals of Food Preparation II	4	\$100
2280:230	Advanced Food Preparation	4	\$100
2280:232	Dining Room Service and Iraining	3	\$100 \$100
2280:233	Restaurant Operations and Management	3	\$1000
2280:201	Basic Legal Research and Writing	3	\$30
2290:104	Advanced Legal Research	3	\$30
2420:215	Computer Applications for Accounting Cycles	3	\$20
2440:102	Introduction to Windows	1	\$10
2440:103	Software Fundamentals	2	\$15
2440:121	Introduction of Logic/Programming	3	\$ 20
2440:125	Spreadsheet Software	2	\$15
2440:140	Internet Tools	3	\$20 \$20
2440:141	Web Site Administration	3	\$20
2440:145	Operating Systems	3	\$20
2440:160	Java Programming Viewal Rasio	3	\$20
2440.170	Microcomputer Applications Support	3	\$20
2440:180	Database Concepts	3	\$20
2440:201	Cisco Networking I	4	\$40
2440:202	Cisco Networking II	4	\$40
2440:203	Cisco Networking III	4	\$40
2440:204	Cisco Networking IV	4	\$40
2440:210	Client/Server Programming	3	\$20
2440:211	Interactive Web Programming	3	\$20
2440:212	Multimedia/Interactive vveb Elements	3	\$20
2440:234	Advanced Busiless Flogial III ing	3	\$18
2440:245	Hardware Support	3	\$20
2440:251	Computer Applications Projects	3	\$20
2440:256	C++ Programming	3	\$20
2440:257	Microcomputer Projects	3	\$20
2440:267	Micro Database Applications	3	\$20
2440:290	Special Topics	2	\$15
2440:290	Special Topics	3	\$20
2530:241	Health Information Management	3	\$00 \$00
2530:245	Reimpursement Payment Systems: Health Care	2	\$15
2540:118	Exploring the internet Keyboarding Skill Development	1	\$10
2540.120	Introduction to Office Procedures	3	\$25
2540:130	Introduction to Office Automation	4	\$20
2540:140	Keyboarding for Non-Majors	2	\$15
2540:141	WordPerfect, Beginning	2	\$15

-

1

Course			Course	Course			Course
Number	Course Title	Credits	Fee	Number	Course Title	Credits	Fee
	All Allerd Backsin	•	#1E	2060-271	Suprav of Electronics II	3	\$10
2540:143	Microsoft Word Beginning	2	315	2860.271	All years of Electronics in	4	¢10
2540:144	Microsoft Word Advanced	2	\$15	2860:352	Microprocessor Systems	4	310
2540:151	Intermediate Word Processing	3	\$20	2860:400	Computer Simulations in Technology	3	\$10
2540:253	Advanced Word Processing	3	\$20	2860:453	Control Systems	4	\$10
2540.255	Legal Office Procedure I	3	\$20	2870:311	Facilities Planning	2	\$10
2540.255	Medical Office Procedures	ž	\$20	2870.348	CNC Programming	3	\$20
2040.200	Decision Office Flocedules		#20	2070.040	CNC Programming II	3	\$10
2540:270	Business Software Applications	4	\$20	2870.448		3	310 610
2540:271	Desktop Publishing	3	\$25	2880:130	Work Meas, and Cost Est.	3	\$10
2540:273	Computer Based Graphic Presentation	3	\$20	2880:201	Robotics and Automated Manufacturing	3	\$15
2540:281	Edit/Proofread/Transcription	2-3	\$20	2880:241	Introduction to Quality Assurance	3	\$5
2540.200	Special Tenior: Office Administration	5.3	\$20	2900-121	Euodamentals of Instrumentation	4	\$10
2040.250	Alexandructure Applications in Terrorectedies		420	2000.127	Presses Control	2	\$10
2560:222	Microcomputer Applications in Transportation	3	20	2900:232	Process Control	3	310
2600:100	Basic Electronics for Technicians	5	\$20	2900:239	Pulse Circuit Testing	3	\$10
2600:125	Digital Electronics for Technicians	4	\$20 ⁻	2920:130	Intro to Hydro and Pneum	3	\$15
2600-160	Personal Computer Servicing	3	\$20	2920:142	Introduction to Materials Technology	3	\$20
2000.100	Micropropedure and Digital Technology	Å	\$10	2920-245	Mechanical Design II	5	\$10
2000:230	Microprocedure and Digital rechnology		510	2020.245	Technology of Mechine Tech	à	e-20
2600:240	Microsoft Networking I	1-4	\$50	2920:247	Technology of Machine Tools	3	200
2600:242	Microsoft Networking II	1-4	\$75	2920:252	Thermo-Fluids Lab	1	\$15
2600:244	Microsoft Networking III	1-4	\$75	2920:339	Advanced Technology of Machine Tools	2	\$10
2600.270	Introduction to Network Technology	2	\$10	2920:346	Mechanical Design III	4	\$10
2600.272	Network Technology	3	\$75	2920:348	Computer Numerical Control Programming I	3	\$20
2000.272	Network Technology (2	\$70	2020-405	Introduction to Inductrial Machine Control	Š	e10
2600:274	Network Technology II	3	3/5	2920:405	Introduction to industrial Machine Control	3	310
2600:275	Digital Data Communication	4	\$10	2920:448	Computer Numerical Control Programming II	3	\$10
2600:276	Network Directory Struct.	2	\$50	2920:470	Plastics Processing and Testing	2	\$20
2600.278	Network Troubleshoot Technology	3	\$75	2940:121	Technical Drawing	3	\$20
2600.282	Current Networking Tonics	1.3	\$50	2940.122	Technical Drawing I	<u>,</u>	\$30
2000.202	Culterit Networking Topics	12	830	2040.122	Supervise Draffier	2	\$20
2/30:225	Histotechnology Practicum	5	210	2940:170	Surveying Dratung	3	320
2740:135	Medical Assisting Techniques II	4	\$28	2940:180	Intro to CAD	1	\$25
2740:235	Madical Assisting Techniques III	4	\$50	2940:210	Computer-Aided Drawing I	3	\$45
2740.240	Medical Transcription I	3	\$20	2940:211	Computer-Aided Drawing II	3	\$45
2740.240	Medical Transcription II	ž	\$10	2040:250	Architectural Draffing	ž	\$10
2740.242	Wedical Hanschpilon II	3	310	2940.250	Architectulai Dialung	3	310
2770:121	Surgical Assisting Procedures I	3	\$40	2980:101	Basic Surveying	2	\$20
2770:122	Surgical Assisting Procedures II	3	\$25	2980:102	Basic Surveying II	2	\$20
2770:131	Clinical Application I	2	\$15	2980:122	Basic Surveying	3	\$20
2770:233	Clinical Application III	5	\$50	2980:123	Surveying Field Practice	2	\$30
2700-121	Introduction to Bonoirston (Caro	2	\$25	2000.120	Construction Summing	2	620
2/90.121	Introduction to nespiratory care	3	\$00	2300.222		3	300
2790:122	Respiratory Patient Care	3	\$35	2980:223	Fundamentals of Map Production	3	\$20
2790:123	Mechanical Ventilators	3	\$35	2980:225	Advanced Surveying	3	\$30
2790:131	Clinical Application I	3	\$15	2980:227	Intro to Geographic and Land Information Systems	3 .	\$20
2790-134	Clinical Application IV	5	\$15	2980.228	Boundary Surveying	3	\$20
2700.000	Advensed Beeniveten/ Core	š	675	2000.250	Structure Drafting	, i i	#20 ·
2750.225	Advanced hespiratory care	3	400	2360.250		2	\$20
2800:200	Physics for Environmental Technology	1	\$25	2980:290	Special Topics: Surveying and Construction Tech	1-2	\$30
2800:210	Technical Computations	1	\$25	2980:310	Survey Computations and Adjustments	2	\$20
2800:230	Water and Atmospheric Pollution	3	\$25	2980:315	Boundary Control and Legal Principles	3	\$10
2800.232	Environmental Sampling Lab	2-3	\$25	2980:415	egal Aspects Surveying	3	\$15
2920-105	Basic Chemistor	2	\$15	2000:420	Route Surveying	2	\$20
2020.100	Dissic Chernishy	2	\$10	2300.420	Cubet sliveying	3	320
2820:110	Physical Science for Technicians	3	\$10	2980:42	Subdivision Design	3	\$25
2820:111	Introductory Chemistry	3	\$ 15	2980:422	GPS Surveying	2	\$30
2820:112	Introductory and Analytical Chemistry	3	\$15	2980:425	Land Navigation	3	\$30
2820:121	Technical Computations	1	\$5	2980:430	Surveying Project	3	\$20
2020-121	Software Applications for Tool	1	¢10	2090:445	Applications in GIS Lising CBS	š	. 600
2020.131	Task is Duries Maskeria I		310	2560.445	Applications in dis Using dies	3	3550
2820:161	Technical Physics: Mechanics I	2	\$10	2980:489	Special Topics: Surveying	1-3	\$20
2820:162	Technical Physics: Mechanics II	2	\$ 10	2990:237	Materials Testing I	2	° \$2 5
2820:163	Technical Physics: Electricity and Magnetism	2	\$10	2990:238	Materials Testing II	2	\$25
2820:164	Technical Physics: Heat and Light	2	\$15	2990:245	Cost Analysis and Estimating	3	\$15
2820.310	EORTBAN for Technologists	2	\$30	2990:310	Residential Building Construction	ž	\$20
2020.010	Electromochanical Davison	-	45	2000.050	Field Management and Caladelia	3	400
2630:110	Electromechanical Devices	4	20	2990:352	Field Management and Scheduling	2	\$30
2830:130	Introduction to Hydraulics and Pneumatics	3	\$5	2990:354	Foundation Construction Methods	3	\$20
2830:210	Motion Control I	4	\$5	2990:358	Advanced Estimating	3	\$30
2830:220	Motion Control II	3	\$5	2990:361	Constriuction Form Work	3	\$20
2830:230	Machine and Process Control	4	\$5	2990.410	Besidential Building Design	2	\$20
2000.200		7		2000.410		3	\$50
2030.240	nuusitai computer control	3	30	2550:422	Gro surveying	2	230
2830:250	Programmable Controllers	3	\$10	2990:462	Mechanical Service Systems	3	\$20
2830:260	Electrical Power and Wining	3	\$5	2990:463	Electrical Service Sytems	3	\$20
2830:270	Troubleshooting and Repair	3	\$10	2990:470	Advanced Construction Graphics	3	\$30
2940-112	Polymor Technology II	2	620	2000:490	Special Tanice: Construction	12	e20
2040.112		3	300	2990.409	special topics. Construction	1-5	\$20
2840:202	Instrumental Methods	3	\$30	Buchtel Colle	ge of Arts and Sciences		
2840:211	Polymer Technology III	3	\$30	3006:490	Workshon: Women Middle/Later Years	1.3	¢15
2840:260	Compounding Methods	2	\$30	2010:201	Introduction to Environmental Studios	1-0	415
2840:270	Natural and Synthetic Organic Polymers	4	\$20	3010.201	Introduction to Environmental Studies	2	30
2860.110	Basic Electricity and Electronics	Å	\$10	3010:401	Seminar: Environmental Studies	2	\$ 5
2000.110	Dasic Electricity and Electronica	7	\$10	3100:100	Introduction to Botany	4	\$5
2000.120		4	510	3100:101	Introduction to Zoology	4	\$5
2860:122	AU Circuits	3	\$10	3100:103	Natural Science: Biology	4	\$10
2860:123	Electronic Devices	3	\$10	3100-104	Introduction to Ecology Laboratory	1	¢5
2860:136	Digital Fundamentals	2	\$5	3100.104	Principles of Dislam:		00
2860:225	Electronic Device Applications	3	\$10	3100:111	minuples of Biology I	4	\$20
2860.227	Massiremente	2	\$20	3100:112	Principles of Biology II	4	\$20
2000.22/		2	320	3100:130	Principles of Microbiology	3	\$25
2860:231	Control Principles	3	\$10	3100-200	Human Anatomy and Physiology	3	\$15
2860:237	Digital Circuits	4	\$10	2100-202	Human Anatomy and Dhurlelow II	2	@10 @1E
2860:238	Microprocessor Fundamentals	4	\$10	3100:202	numan Anatomy and Physiology II	3	315
2860.242	Machinery and Controls	3	\$10	3100:212	Genetics Laboratory	1	\$15
2000.272		3	010	3100:264	Anatomy and Physiology of Speech and Hearing	3	\$15
2000.251	Communications Circuits	3	\$10	3100:265	Introductory Human Physiology	4	\$15
2860:255	Electronic Design and Construction	2	\$20	3100:331	Microbiology	4	\$50
2860:270	Survey of Electronics I	3	\$10	3100-342	Flora and Taxonomy	2	¢10
				3100.342	Histolog (3	310
Note: Additional	workshops and special topics courses offered on a roted	tion basis me	w include	3100:365	ristology I	3	\$15
fees not listed be	re Consult appropriate department for on me method	and compared	on fores for-	3100:366	Histology II	3	\$20
those cleaner	to, concurreppropriate appointment for course fridterial	and compute	19100310	3100:400	Food PLants	2	\$10

fees not listed here. Consult appropriate department for course material and computing fees for those classes.

54 The University of Akron 2001-2002

.

Course			Course	Course			Course
Number	Course Title	Credits	Fee	Number	Course Title	Craclite	Foo
2100.421	Territori Field Birls on					CIGUID	100
3100:421	Inderical Field Biology	4	\$175	3370:124	Plate Tectonics: The New Geology	1	\$5
3100:426	Wetland Ecology	4	\$15	3370:125	Earthquakes: Why, Where, and When	1	\$5
3100:427	Aquatic Ecology	4	\$50	3370:127	The Ice Age and Ohio	1	\$5
3100:433	Pathogenic Bacteriology	4	\$50	3370:128	Geology of Ohio	1	\$5
3100:435	Virology	4	\$50	3370-129	Medical Geology	1	\$5
3100:437	Immunology	Å	\$50	3370-130	Geologia Becord - Climate Change		
3100:440	Mucolomy	7	\$1E	2270:122	Genetation and Province Materia		30
3100.440	Next Development	4	315	3370:132	Gernstones and Precious Metals	1	\$5
3100:441	Plant Development	4	\$15	3370:133	Caves	1	\$5
3100:442	Plant Anatomy	3	\$15	3370:135	Geology of Energy Resources	1	\$5
3100:443	Phycology	4	\$15	3370:136	Earth's Oceans	1	\$5
3100:445	Plant Morphology	4	\$15	3370-137	Farth's Atmosphere and Weather	1	\$5
3100-448	Economic Botany	2	\$5	3370.200	Environmental Geology	2	¢5
0100.451	Concerning Dottering	2	30	3370.200	Environmental Geology	3	CC CC
3100:451	General Entomology	4	\$10	33/0:201	Exercises in Environmental Geology I	1	\$10
3100:453	Invertebrate Zoology	4	\$25	3370:202	Geology of National Parks	3	\$10
3100:454	Parasitology	4	\$15	3370:203	Exercises in Environmental Geology II	1	\$10
3100:455	Ichthyology	4	\$90	3370:230	Crystallography and Non-Silicate Mineralogy	3	\$15
3100:456	Omithology	4	\$15	3370-231	Silicate Mineralogy and Petrology	à	\$15
2100:459	Vertebrite Zeelee	7	\$10	2270-201	Engineering Cooler:	3	\$10 \$15
3100.436	Venteurate zookugy	-	310	3370.301	Engineering Geology	3	310
3100:461	Human Physiology	4	\$25	3370:310	Geomorphology	3	\$25
3100:462	Human Physiology	4	\$25	3370:324	Sedimentation and Stratigraphy	4	\$25
3100:464	Comparative Animal Physiology	4	\$50	3370:350	Structural Geology	4	\$25
3100:466	Vertebrate Embryology	4	\$30	3370:360	introductory Invertebrate Paleontology	4	\$25
3100:467	Comp Vertebrate Mombology	À	\$25	3370-371	Oceanography	Å	\$25
0100.407	Dis minimum Constitution	7	000	0070.071	Asshana lagiat Carlant	-	920
3100:471/571	Physiological Genetics	4	350	3370:405	Archaeological Geology	3	325
3100:480	Molecular Biology	3	\$15	3370:410	Regional Geology of North America	3	\$25
3100:485/585	Cell Physiology	4	\$60	3370:411	Glacial Geology	3	\$25
3100:494	Workshop: Basic Cell Tech and Res	1-3	\$10	3370:421	Coastal Geology	3	\$25
3100:494	Workshop: Molecular Biology High School Teaching	1-3	\$15	3370:425	Principles in Sedimentary Resin Analysis	3	\$25
2100-404	Weddehen: Bediction Select Jests and Comp	10	¢10	2270-422	Onticel Minerelets and Introductory Determiner	š	625
3100.494	workshop: Hadiation Safety Instrand Comp	1-0	310	3370.432	Optical Mineralogy and Introductory Petrography	3	320
3100;494	Workshop: Tropical Biology-Jamaica	1-3	\$175	3370:433	Advanced Petrography	3	\$25
3100:495	ST: Principles of LT Microscopy	1-3	\$40	3370:435	Petroleum Geology	3	\$25
3150:101	Chemistry for Everyone	4	\$25	3370:436	Coal Geology	3	\$25
3150-110/111	Introduction to General Organic and Biochemistry/Lab	4	\$25	3370:437	Economic Geology	3	\$25
0150.110/110	Introduction to Conoral, Organic and Diochernistry/Lab	-	£20	3370:441	Evolution of Coophynics	š	615
3150:112/113	Introduction to General, Organic and Biochernistry/Lab	4	\$30	3370.441	Fundamentals of Geophysics	3	310
3150:151/152	Principles of Chemistry I/Lab	4	\$30	3370:444	Environmental Magnetism	3	\$15
3150:153	Principles of Chemistry II	3	\$5	3370:446	Exploration Geophysics	3	\$15
3150:154	Qualitative Analysis	2	\$15	3370:450	Advanced Structural Geology	3	\$25
3150 201	Organic Chemistry and Biochemistry I	4	\$25	3370:462	Advanced Paleontology	3	\$25
3150:202	Organic Chemistry and Biochemistry II	4	\$25	3370:463	Micropaleontology	3	\$25
3150.202		7	425	2270.470	Case aminte :	2	40E
3150:265	Organic Chemistry Laboratory I	2	\$25	3370.470	Geochemistry	3	325
3150:266	Organic Chemistry Laboratory II	2	\$25	3370:472	Stable Isotope Geochemistry	3	\$25
3150:380	Advanced Chemistry Lab !	2	\$25	3370:474	Groundwater Hydrology	3	\$25
3150:381	Advanced Chemistry Lab II	2	\$25	3370:481	Analytical Methods in Geology	2	\$10
3150-480	Analytical Chemistry Laboratory III	2	\$30	3370:484	Geoscience Information Acquisition and Management	1	\$5
3160.401	Advanced Chemistry Laboratory III	2	e20	2450-221	Analytical Geometry and Calculuis L Honore	à	\$5
3160:481	Advanced Chemistry Lab IV	2	\$30	3450.221	Analytical Geometry and Calculus I-Honors	*	
3250:426	Econometric Methods and Applications	3	\$20	3450:222	Analytical Geometry and Calculus II-Honors	4	20
3250:427	Economic Forecasting	3	\$20	3450:289	ST: Analytical Geometry and Calculus III Lab	1-3	\$5
3300:111	English Composition	4	\$20	3450:427	Applied Numerical Methods	3	\$5
3300.112	English Composition II	3	\$20	3450:428	Applied Numerical Methods II	3	\$10
3300-278	Introduction to Fiction Writing	3	\$20	3450:429	Numerical Solutions: Ordinary Differential Equations	3	\$5
3300.278		2	\$20	2450.420	Numerical Solutions for Partial Differential Equations	2	65
3300:283	Film Appreciation	3	320 ·	3430.430	Numerical Solutions for Parual Differential Equations	5	#10
3300:378	Advanced Fiction Writing	3	\$20	3450:435	Systems of Ordinary Differential Equations	3	210
3300:380	Film Criticism	3	\$20	3450:489	T:Math Software Sciences Comp	1-3	\$15
3350:305	Maps and Map Reading	3	\$10	3460:125	Descriptive Computer Science	2	\$10
3350:306	Manning the Earth	3	\$10	3460:126	Introduction to Visual Basic Programming	3	\$10
2250-210	Physical and Environmental Geography	2	¢10	2460:201	Introduction Fortren Programming	3	\$10
3350.310	Physical and Environmental Geography	3	\$10	3400.201	Introduction Cohol Decrementar	3	¢10
3350:314	Climatology	3	\$10	3460:202	Introduction Cobol Programming	3	310
3350:340	Cartography	3	\$10	3460:205	Introduction Pascal Programming	3	\$10
3350:350	Geography of the U.S. and Canada	3	\$5	3460:206	Introduction to C Programming	3	\$ 10
3350:351	Ohio: Environment and Society	3	\$5	3460:208	Introduction to C ++	3	\$10
3350-353	Latin America	3	\$5	3460:209	Introduction Computer Science	4	\$15
2250.256	Europa	3	\$5	3460:210	Data Structures and Algorithms I	4	\$15
2250-250	Burgin and According of States	2	¢5	3460-202	Programming Applications with Cabol	3	\$10
3330.338	nusad anu Assuuateu States	3	40 40	3460,002	Assemble Language Desembles	2	¢15
3350:360	Asia	3	30	3400:300	Assembly Language Programming	3	910
3350:363	Amca South of the Sahera	3	\$5	3460:307	Applied Systems Programming	3	\$10
3350:403	Comp. Appl. in Geography and Planning	3	\$ 10	3460:316	Data Structures and Algorithms I	3	\$10
3350:405	Geographic Information Systems	3	\$ 10	3460:330	Survey of Programming Languages	3	\$25
3350:407	Advanced Geographic Information Systems	3	\$10	3460:406	Intro to C and UNIX	3	\$15
3350:436	Urban Land Use Analysis	3	\$10	2460:419	Introduction Discrete Structures	3	\$10
3350:442	Thematic Cartography	3	\$10	0400.400	Characteristic Characteristics	å	¢10
2250:444	Anna in Costagraphy and Coographic Info. Suptame	2	\$10	3400:420	Structured Programming	3	310
3350.444	Apps. In California and Geographic Into. Systems	3	010	3460:426	Operating Systems	3	\$15
3350:44/	nemote sensing	3	510	3460:428	UNIX System Programming	3	\$15
3350:448	Advanced Cartography	3	\$10	3460:430	Theory Programming Languages	3	\$10
3350:449	Advanced Remote Sensing	3	\$10	3460:435	Analysis of Algorithms	3	\$10
3350:489	ST: Geography	1-3	\$5	3460-440	Compiler Design	3	\$10
3350:490	Workshop: Creat, Geog. Res., K-12	1-3	\$25	3460-4FF	Data Communications and Computer Metworks	2	\$20
3350.490	Workshop: Field Trins for Educators	1-3	\$10	3400.433	Computer Complian	2	620
2250:405	Coil and Motor Field Studion	2	675	3460:457	Computer Graphics	3	\$20
3300:495	SUI AND WATER FIERD STUDIES	3	300	3460:460	Artificial Intelligence and Heuristic Programming	3	\$10
3350:496	Heid Research Methods	3	\$35	3460:465	Computer Organization	3	\$10
3370:100	Earth Science	3.	\$5	3460:467	Microprocessor Programming and Interfacing	3	\$25
3370:101	Introductory Physical Geology	4	\$10	3460.470	Automata, Computability, and Formal Languages	3	\$15
3370:102	Introductory Historical Geology	4	\$10	0420.475	Data Raca Management	2	¢15
3370-121	Dioceaure	1	\$5	3400:475		10	310
2270-121	Mana Extingiona Garlen	1	6 5	3460:489	SI: Computer Science	1-3	\$25
3370.122	IVIASS EXUNCIONS-GROIDGY		90	3470:260	Basic Statistics	3	\$5
				3470:261	Introductory Statistics I	2	\$5
Note: Additional v	vorkshops and special topics courses offered on a rotatio	n basis ma	ay include	3470:262	Introductory Statistics II	2	\$5
fees not listed her	e. Consult appropriate department for course material ar	nd computi	ing fees for	3470:280	Introduction to Statistical Computing	2	\$10
those classes	and more many and the company appropriate apparement for course material and computing roos for hose classes.			3470:461	Applied Statistics I	4	\$10

nd computing fees for those classes.

Course			Course	Course			Course
Number	Course Title	Credits	Fee	Number	Course Title	Credits	100
3470:462	Applied Statistics II	4	\$10	4450:495	Design Project I	2	\$30
3470:480	Statistical Computer Applications	3	\$20	4450:496	Design Project II	3	\$30
3500:101	Beginning Japanese	4	\$10	4600:165	Tools for Mechanical Engineering	3	\$50
3500:101	Beginning Swahili I	4	\$10	4600:401	Design of Energy Systems	2	\$55
3500:102	Boginning Jananese II	4	\$10	4600:461	Design of Mechanical Systems	2	\$55
2500.102	Boginning Supplied II	4	\$10	4600:483	Mechanical Engineering Measurements Laboratory	2	\$60
2500-201	Intermediate Jenenese i	3	\$10	4600 484	Mechanical Engineering Laboratory	2	\$60
3500.201	Internediate Japanese I	2	\$10	4900:101	Tools for Biomedical Engineering	3	\$50
3500:202	Intermediate Japanese II	3	\$10	4000.101	Introduction to Riemodical Engineering Design	2	\$50
3520:101	Beginning French I	4	\$10	4800:111	Introduction to Biorheokal Engineering Design	2	\$50
3520:102	Beginning French II	4	\$10	4800:305	Introduction to Biophysical Measurements	3	\$50
3520:201	Intermediate French !	3	\$10	4800:365	Mechanics of Bio Tissues	3	\$50
3520:202	Intermediate French II	3	\$10		untion		
3520:315	French Phonetics	3	\$10	Conege of Edi			
3530:101	Beginning German I	4	\$10	5100:205	Fundamental Education Computer Skills	1	\$10
3530:102	Beginning German II	4	\$10	5100:210	Characteristics of Learners	3	\$10
3530.201	Intermediate German I	3	\$10	5100:211	Teaching Learning Strategies	3	\$10
2520-202	Intermediate Corman II	š	\$10	5100:410	Professional Issues in Educations	3	\$10
0550.202	Decision Italian I	4	\$10	5100:420	Introduction to Computer-Based Education	3	\$25
3550(101	Deginning Italian I		\$10	5100:420	ST: Educational Media Technology	1_4	\$25
3550:102	Beginning italian II	4	\$10	5100.480	Medichan Mathematics for Education	12	¢15
3550:201	Intermediate Italian I	3	\$10	5100:490	workshop: wotwatori for Educators	1-0	\$10
3550:202	Intermediate Italian II	3	\$10	5100:490	Workshop: Photography for Educators	1-3	\$50
3570:101	Beginning Russian I	4	\$10	5100:490	Workshop: Video Production for Educators	1-3	\$35
3570:102	Beginning Russian II	4	\$10	5200:220	Visual Arts Culture in Elementary Education	1	\$15
3570:201	Intermediate Russian I	3	\$10	5200:250	Developing Processes of Investigation	3	\$10
3570:202	Intermediate Russian II	3	\$10	5200:320	Visual Arts Applications Elem. School	3	\$10
3580:101	Beginning Spanish I	4	\$10	5200:325	Teaching Phonics in Language Literacy Field Experience	3	\$10
3590-102	Beginning Spenish II	Å	\$10	5200:333	Teaching Science to Young Children	3	\$25
2590-201	Intermediate Spanish I	3	\$10	5200:337	Teaching of Reading	3	\$10
3500.201	Internediate Spanish I	3	\$10	5200:342	Teaching Math to Young Children	ž	\$5
3580.202	Intermediate Spanian II	3	\$10	5200.342	Comp. Musicianship for the Early Childhood Middle Law	1.2	¢4E
3580:301	Spanish Conversation	3	\$10	5200.365	Comp. Musicianship for the carry Childhood/Middae Lew	<i>и</i> З	340
3580:302	Spanish Composition	3	\$10	5200:370	Early Childhood Center Lab	2	\$15
3580:401	Advanced Conversation	3	\$10	5200:445	Evaluating Language Literacy	3	\$10
3580:402	Advanced Composition	3	\$10	5200:450	Integrated Curriculum Applications	3	\$15
3580:405	Spanish Linguistics: Phonology	4	\$10	5200:480	Special Topics: Teaching Elementary School Math	1-4	\$5
3650:261	Physics for Life Sciences I	4	\$20	5200:490	Workshop: Teacher Job Search	1-3	\$5
3650.262	Physics for Life Sciences II	4	\$20	5200:490	Workshop: Actual Problem Solving & Hand Cal.	1-3	\$5
2650-201	Elementary Classical Physics I	Å	\$20	5200:490	Workshon: Dev. Annr. Pract/Far Child	1.3	\$15
2650-202	Elementary Classical Physics I	7	\$20	5200:490	Workshop: Establishing a Balanced Baading Program	1.3	\$10
0000.202	Electronically Classical Physics II	7	\$20	5200:490	Modeling: Evolution Language Record Instruction	10	\$10
3000.310	Electronics and Measurement Techniques	3	\$20	5200.490	Workshop, Evaluating Language-based instruction	1-3	\$10
3650:322	Intermediate Lab I	3	\$25	5200:490	workshop: Getting Ready Classroom	1-3	\$10
3650:323	Intermediate Lab II	3	\$25	5200:490	Workshop: Integrating Comm. Resource	1-3	\$15
3650:451	Advanced Laboratory I	3	\$25	5200:490	Workshop: Literature in the Classroom	1-3	\$ 10
3650:452	Advanced Laboratory II	3	\$25	5200:490	Workshop: Making Language Learning Come Alive	1-3	\$10
3650:468	Digital Data Acquisition	3	\$20	5200:490	Workshop: Phonics Instruction for Today	1-3	\$20
3700:201	Introduction to Political Research	3	\$10	5200:490	Workshop: Shared Reading in Primary Grades	1-3	\$10
3700:301	Advanced Political Research	3	\$10	5200:490	Workshop: Surviving Substitute Teaching K-8	1-3	\$10
3700:370	Public Administration: Concents and Practices	Ă	\$10	5200:490	Workshon: Teaching Revond Text	1.3	\$10
3700:440	Suprav Basaarch Mathode	2	\$10	5200:490	Workshop: Child Abuse and Neglect	1.3	\$30
3700.440	Survey Research Meurous	3	\$10	5200.450	Workshop, Child Augest and Neglect	10	\$30
3700.442	Methods of Policy Analysis	3	\$10	5200.490	Workshop, Use Lt. Dev. Integ. Instr.	1-3	\$10
3750:110	Quantitative Methods in Psychology	4	\$15	5200:490	workshop: Language & Literature Multi Settings	1-3	\$15
College of Eng	lineering			5200:495	Student Teaching 4-6	6	\$25
college of Ling	Inventio			5200:496	Student Teaching 7-9	6	\$25
4200:101	Tools for Chemical Engineering	3	\$50	5250:333	Teaching Science to Middle Level Learners	3	\$25
4200:294	Chemical Engineering Design II	1-2	\$30	5250:338	Teaching Social Studies to Middle Level Learners	3	\$10
4200:360	Chemical Engineering Lab	3	\$50	5250:342	Teaching Math to Middle Level Learners	3	\$10
4200:394	Chemical Engineering Design III	1-3	\$30	5250:350	Integrating Language Arts and Media	3	\$20
4200:442	Plant Design	3	\$30	5300:311	Instr Tech:Secondary Education Math	5	\$5
4200:461	Solids Processing	3	\$30	5300:425	Advanced Micro Ann in Secondary Schools	3	\$35
4200:494	Design Project	3	\$30	5300:490	Workshop: Adv. Instructional Techniques for Language	1.3	\$20
4200:407	Honore Project	12	6 20	E200-490	Morkshop, Adv. Insuductional Techniques for Language	10	\$20
4200.497	Personal Project	10	\$30	5300.490	Workshop, Costa Filea - Educators	1-3	3/5
4200.499	Testa (a. Chill Fasianaire	1-3	\$30	5300:490	workshop: Educational Strategies Urban Schi. Environ.	1-3	30
4300:101	LOOIS TOT CIVIL Engineering	3	\$50	5300:490	Workshop: French Language Immersion	1-3	\$25
4300:314	Geotechnical Engineering	3	\$50	5300:490	Workshop: Improving 9th Grade Math Prof. Scores	1-3	\$5
4300:341	Hydraulic Engineering	3	\$50	5300:490	Workshop: Teaching Film/TV Survival Skills	1-3	\$50
4300:380	Engineering Materials Lab	3	\$50	5300:490	Workshop: Tech. & Instr. In Foreign Languages	1-3	\$15
4300:423	Chemistry for Environmental Engineers	3	\$50	5300:490	Workshop: Whole Language Teaching Teachers	1-3	\$25
4300:448	Hydraulics Lab	1	\$50	5300:490	Workshop: Lng. Art Eng. Tch. Best Pr.	1-3	\$25
4300:468	Highway Materials	3	\$50	5300:495	Student Teaching	4.11	\$50
4300:482	Special Projects	1.3	\$50	5400:420	Postsecondary Instructional Technologies	3	\$20
4300-490	Senior Desion	3	\$50	5400:420	Sue Curr Design: Postesconder Instruction	2	\$20
4400:101	Tools for Electrical Engineering	2	\$50	E400-43E	Sys. Coll. Design. Postsecondary Insulation	3	320
4400.101	Custobian & Locia	3	\$50	5400:435	Instructional Design in Postsecondary Education	3	\$20
4400-200	Switching of Logic	4	350	5400:490	workshop: Diversity in the Workplace	1-3	\$20
4400:320	Dasic Electrical Engineering	4	\$30	5400:490	vvonksnop:School to Work K-Adult	1-3	\$10
4400:340	Electric Circuits Laboratory	1	\$50	5400:495	Postsecondary Education Practicum	1-4	\$10
4400:361	Electronic Design	4	\$50	5500:286	Teaching Multipole Texts through Genre	3	\$10
4400:371	Control Systems I	4	\$50	5500:310	Instructional Design	3	\$10
4400:385	Energy Conversion Lab	2	\$50	5500:311	Instructional Resources	3	\$35
4400:401	Senior Project I	2	\$30	5500:320	Diversity in Learners	3	\$10
4400:402	Senior Project II	2	\$30	5500:330	Classroom Management	3	\$10
4400:455	Microwaves	4	\$30	5500:440	Dev Reading Content Area - FAAC	3	\$10
4400:465	Programmable Logic	3	\$50	5500.445	Evaluation annuane iterany	3	620
4400:470	Micronnosser Interfector	2	\$50	5500.475	Lasta stional Taskaalon (Archinetar	2	400
4400:472	Control Suttoms II		006	3000:475	Insulucional Technology Applications	3	520
4400:472	Control Systems II	4	\$50	5540:123	Dowing	.5	\$20
4400.484	Fower Electronics Laboratory and Design Project	2	\$50	5540:124	Canceing	.5	\$15
4400:497	HONORS PROJECT	1-3	\$30	5540:127	Gon	1	\$30
Note: Additional w	orkshops and special topics courses offered on a rotati	on basis ma	y include	5540:133	Liteguard Training	1	\$40
fees not listed here	. Consult appropriate department for course material a	nd computir	ng fees for	5540:137	Seiling	.5	\$10
those classes.				5540:155	Basic Kayaking	1	\$15

Course			Course
Number	Course Title	Credits	Fee
5540:190	Special Topics: Water Safety Instruction	5-2	\$15
5540:206	Orienteering	1	\$20
5540:207	Introduction to Bock Climbing	-	\$20
5540:208	Beckpecking	÷	520
5540:209	Elaberater Canoo Trinning	-	\$20
5550:102	PE Act L'Ethonn Cont. Act		\$20
5550:102	Methods of Tasshing Drusing Educations	2	\$20
5000.193 EEE0.201	Methods of Teaching Physical Educations	3	\$15
5000:201	NINESIOLOGY	2	\$10
5550:202	Diagnosis of Motor Skills	2	\$ 15
5550:211	First Aid and CPR	2	\$25
5550:235	Concepts of Motor Development	3	\$10
5550:240	Care and Prevention of Athletic Injury	4	\$20
5550:245	Adapted Physical Education	3	\$10
5550:302	Physiology of Exercise	3	\$20
5550:334	Games/Rhythms Elementary School Child	ž	\$5
5550-335	Movement Experience for the Elementary Child	ž	\$C
6550.338	Motor Learning and Development Early Child	2	6 10
5550.340	Com and Provention: Athlatic laive:	2	\$10
5550.340	Care and Prevention: Advedic injury	3	\$20
5550:403	Exercise lesting	3	\$ 15
5550:404	Exercise Prescription	3	\$15
5550:450	O&A Physical Education, Intramurals and Athletics	3	\$ 5
5550:480	Special Topics: Musculoskeleti Anatomy I	1-4	\$10
5550:480	Special Topics: Musculoskeleti Anatomy II	1-4	\$10
5550:490	Workshop: Alternative Healing Exercises	1-3	\$3
5550.490	Workshop: Bonding Music/Physical Education	1.3	E 10
5550:490	Workshop: Child at Risk	1.2	\$10
5550.400	Medichen Child in Spect I	1.0	510
5550.490	Workshop: Child in Sport I	1-3	\$10
5550:490	Workshop: Child in Sport II	1-3	\$10
5550:490	Workshop: Child in Sport: Psych CNOS	1-3	\$6
5550:490	Workshop: CI: Health/Wellness	1-3	\$5
5550:490	Workshop: Classroom Learning/Mgt.	1-3	\$6
5550:490	Workshop: Classroom Problems	1-3	\$5
5550:490	Workshop: Coaching Effect	1-3	\$10
5550:490	Workshop: Concents Strength Training	1.3	65
5550.400	Morkshop: Co.co/Creative Thinking	1.2	¢10
5550.450	Wedeberg Compared Concentration Street Training	1.0	310
5550.490	workshop: Current Concepts in Strength Training	1-3	30
5550:490	Workshop: Dev. Successful Child I	1-3	56
5550:490	Workshop: Easing Stress: CH/TCH I	1-3	S 6
5550:490	Workshop: Education for Healthy Heart	1-3	\$ 6
5550:490	Workshop: Education Healthy Heart	1-3	\$6
5550:490	Workshop: Encourage At-Risk Child	1-3	\$6
5500:490	Workshop: Enhance Self-Esteern Child	1-3	\$6
5550:490	Workshop: Enhance Teacher Perf./Esteem	1-3	\$6
5550:490	Workshop: Enhancing Athlatic Performance	1-3	ŝõ
5550:400	Morkshop: Ethical leguage - Sports	1.3	\$10
5550.400	Morkehan: Hanith Ed. Lindsta	1.2	\$7
5550.490	Workshop, Health Ed. Opdate	1-3	\$/
5550:490	vvorksnop: HIV/AIDS Update	1-3	\$/
5550:490	Workshop: Law/Van: Violence and the Unruly	1-3	\$6
5550:490	Workshop: Leg. Pit. Teacher/Coach Avoi	1-3	\$ 6
5550:490	Workshop: Leg. Rights of Profession	1-3	\$6
5550:490	Workshop: Legal Update - Educators	1-3	\$5
5550:490	Workshop: Maximizing Athletic Performance	1-3	\$5
5550:490	Workshop: Max Ind Spt/Mot Performance	1-3	\$6
5550:490	Workshop: Menalt Strategies for Peak Performance	1-3	\$6
5550:490	Workshop: Methods of Teaching Health Ed. Lindate	1-3	\$6
5550:400	Morkshop: Motivational Stratagias: Sports/Eversia	1.3	
5550.450	Merkshop: Methysian the At Pick Child	1.2	9/ 86
5000.490	Workshop: Motivating the Athrisk Child	1-3	30
5550:490	vvonksnop: Motivation, Lang. and Arts	1-3	30
5550:490	Workshop: New Games, Inr., Co-op Games	1-3	56
5550:490	Workshop: Nurture Success Children	1-3	\$5
5550:490	Workshop: Personal Watercraft	1-3	\$5
5550:490	Workshop: Psych Aspects of Coaching	1-3	\$8
5550:490	Workshop: Rehab. and Adv. Taping Techniques	1-3	\$6
5550:490	Workshop: Sport Perf. Enhance I	1-3	\$12
5550:480	Workshop: Sport Perf. Enhance II	1-3	\$10
5550:490	Workshop: Strategies for Classroom Mot	1-3	\$10
5500:490	Workshop: Strength/Conditioning Fundamentals	1-3	\$10
5550,400	Markehon: Streen in Child's Marke	1.2	* 6
5550.450	Workshop, Suess HI Cinic S Viola	12	
5550.490	Workshop: Tarchi and Suess Reduction	1.0	30
5550:490	vvonksnop: Teaching 3 H S Ivlovt.	1-3	30
5550:490	Workshop: Teacher's Hole/Disruptive Student	1-3	\$10
5550:490	Workshop: Teachers Should Know About Law	1-3	\$ 6
5550:490	Workshop: Techniques for Develop Peace School	1-3	\$6
5550:490	Workshop: Tow Mor. Success Child	1-3	\$6
5550:480	Workshop: Violence Prevention Strategies	1-3	\$5
5550:480	Workshop: Water Safety Skills: Sailing	1-3	\$10
5550:490	Workshop: Water Safety Skills: Canoe	1-3	\$10
5550:490	Workshop: World Health Issues	1-3	\$5
5550:495	Student Teaching for Physical and Health Education	10	\$50
5560:440	Introduction to Outdoor Pursuits	3	\$20
5560:459	Omanization and Administration Outdoor Duraute	3	\$20
5500.400	Adventure Theremy	2	220
0000.402	Auventure merapy	3	\$20
5560:464	vviiderness Education Association Outdoor Leadership	3	320
5660:490	Workshop: Co-op Learning Resident OE	1-3	\$12
5560:490	Workshop: Inst: Self/Conc Enhance	1-3	\$12
5560:490	Workshop: OE the Sea Coast Environ.	1-3	\$7

Note: Additional workshops and special topics courses offered on a rotation basis may include fees not listed here. Consult appropriate department for course material and computing fees for those classes.

Course Number	Course Title	Credits	Course Fee
5560:494	Workshop: African Safari	4	\$2,600
5570:101	Personal Health	2	\$3
5570:202	Stress, Life-Style, and Health	3	\$10
5570:323	Methods and Materials Teaching Health Ed.	3	\$10
5610:403	Student Teaching Colloquium	1	\$20
5610:463	Assessment in Special Education	3	\$25
5610:470	Clinical Practicum in Special Education	3	\$25
5610:485	Student Teaching: Special Education	8	\$50
5610:490	Workshop: Assess and Eval:EC SE	1-3	\$25

College of Business Administration

All courses at the undergraduate level in the College of Business Administration are assessed a fee of \$2 for one-credit classes, \$3.50 for two-credit classes, or \$5 for three- or four-credit classes.

College of Fi	ne and Applied Arts		
7100:131	Introduction to Drawing	3	\$10
7100:132	Drawing for Designers Three-Dimensional Design	3	56 \$50
7100:170	Fundamentals of Photography	3	\$25
7100:184	Graphic Design Principles	3	\$5
7100:185	Introduction to Computer Graphics	3	\$2 5
7100:213	Introduction to Lithography	3	\$45
7100:214	Introduction to Screen Printing	3	\$45
7100:215	Introduction to Relief Printing	3	\$50
7100:222	Introduction to Sculature	3	\$75
7100:231	Drawing II	3	\$10
7100:233	Life Drawing	3	\$5
7100:243	Introduction to Painting	3	\$30
7100:249	Figure Painting	3	\$30
7100:254	Introduction to Ceramics	3	\$45
7100:268	Color in Metal	3	\$35
7100:275	Introduction to Photography	3	\$35
7100:281	Web Page Design	3	\$40
7100:285	Digital Imaging	3	\$25
7100:288	Typography	3	\$25
7100:289	Intermediate Computer Design	3	\$40
7100:317	Printmaking II	3	\$50
7100:318	Portrary Fashion Photography	3	\$30 625
7100:320	Figurative Sculpture	3	\$75
7100:322	Sculpture II	3	\$75
7100:323	Lost Wax Casting	3	\$100
7100:335	Intarmediate Life Drawing	3	\$5
7100:348	Intermediate Painting	3	\$30
7100:349	Intermediate Drawing	3	\$30
7100:354	Ceramics II	3	\$45
7100.368	Colors in Metels II	3	\$35
7100:375	Photography II	3	\$55
7100:381	Digital Imaging I	3	\$40
7100:383	Multimedia Production	3	\$40
7100:385	Computer 3D Modeling and Animation	3	\$30
7100:386	Packaging Design	3	\$35
7100:387	Advertising Layout Design Production for Designers	3	\$10
7100:388	Advanced Printmaking	3	\$50
7100:422	Advanced Sculpture	3	\$75
7100:450	Advanced Life Drawing/Life Painting	3	\$5
7100:454	Advanced Ceramics	3	\$75
7100:455	Advanced Painting/Drawing	3	\$30
7100:466	Advanced Metalsmithing	3	\$35
7100:475	Advanced Photography Advanced Photography: Color	3	\$35
7100:478	Advanced Commercial Photography	3	\$35
7100:481	Design X Nine	3	\$40
7100:482	Corporate Identity and Graphic Systems	3	\$35
7100:483	Graphic Design Presentation	3	\$35
7100:486	Interactive Multimedia Development	3	\$40
7100:488	Publication Design Special Terric: Studio Art	3	\$35
7100:485	Workshon: Cross Cultural Caramics	1-4	\$75
7100:491	Architectural Presentations I	3	\$5
7100:492	Architectural Presentations II	3	\$5
7400:123	Fundamentals of Construction	3	\$12
7400:125	Principles for Apparel Design	3	\$15
7400:132	Early Childhood Nutrition	2	\$5
7400:133	Nutrition Fundamentals	3	\$5
7400:139	Food for the Family	3	\$60
7400:147	Orient. Prof. Studies in Family and Consumer Sciences	1	\$10
7400:158	Introduction to Interior Design	3	\$20
7400:219	Clothing Communication	3	\$10
7400:221	Evaluation of Apparel and Household Textiles	3	\$10
7400:225	The Fashion Industry	3	\$12
		-	

Course

Course		0.0	course	course		Condito	Eas
Number	Course Title	Credits	1-00	Number	Course me	Creaks	199
7400:257	AutoCAD for Interior Design	3	\$40	7400:485	Seminar: Senior Design Studio I	1-3	\$20
7400.258	Light in Man-Made Environments	3	\$20	7400:485	Seminar: Senior Design Studio II	1-3	\$20
7400-250	Family Housing	3	\$10	7400:485	Seminar: Senior Design Studio II	1-3	\$20
7400.205	Child Development	ä	\$10	7400:485	Seminar Senior Design Studio IV	1-3	\$20
7400:205	Child Development	3	\$10	7400,405	Seminar See for Interior Design	1.2	\$10
7400:270	Theory and Guidance of Play	3	310	7400.485	Serimar, Spec. to intend Design	10	
7400:280	Early Childhood Curriculum Methods	4	\$20	7400:485	Seminar: Update - FD Addreves	1-3	30
7400:295	Direct Experiences in the Hospital	1	\$5	7400:485	Seminar: Update - Fat Substitute	1-3	5
7400:305	Advanced Construction and Tailoring	5	\$12	7400:485	Seminar: Vocational H E Teaching Methods	1-3	\$29
7400:311	Studies in Fiber Art	3	\$12	7400:485	Seminar: Vocational Methods: Job Training	1-3	\$6
7400:315	Food Systems Management I - Clinical	2	\$50	7400:485	Seminar: Women and Food	1-3	\$10
7400-216	Science of Nutrition	-	\$5	7400:485	Seminar Fruinement and Demonstration Techniques		
7400.310	Science of Northold	7	e10	7400:407	Sports Mutrition	2	65
/400:328	Nutrition in Medical Science (4	310	7400.467	Sports Nourion	10	e10
7400:329	Nutrition in Medical Science I Clinical	2	\$50	7400:488	Practicum in Dietetics	1-3	\$10
7400:331	Interior Design Theory	3	\$20	7400:490	Workshop: American Cooking	1-3	\$35
7400:332	Human Factors/Interior Space	3	\$20	7400:490	Workshop: Building Adolescent Life Skills	1-3	\$5
7400:333	Space Planning and Programming	3	\$20	7400:490	Workshop: Child Abuse	2	\$7
7400:334	Specifications for Interiors I	3	\$20	7400:490	Workshop: Children and Loss	1-3	\$7
7400.004	Considerations for Interiors II	š	\$20	7400-490	Workshop: Children and Stress	1-3	\$7
7400:335	Specifications for intendes in	3	320	7400.490	Workshop, Children and Talminian	1-0	
7400:336	Principle and Practice: Intenor Design	3	315	7400:490	workshop: Children and Television	1-3	32
7400:337	Interior Design Contract Documents	3	\$20	7400:490	Workshop: Child and Family Humor	1-3	\$15
7400:340	Meal Service	2	\$35	7400:490	Workshop: Child in Marketplace	1-3	\$5
7400:352	Strategic Merchandise Plan	3	\$10	7400:490	Workshop: Development of Humor in Children	1-3	\$5
7400:360	Parant_Child Balations	3	\$10	7400:490	Workshop: Dynamics of Self Esteem	1.3	\$4
7400-262	Family Life Mensormant	š	6 5	7400:490	Morkehon: Ecology of Trauma	1.3	64
7400:302		3	30 005	7400.490	Workshop, Ecology of Hadria	1.0	40 E0
7400:400	Nutrition Comm. & Ed. Skills	4	\$25	7400:490	vvorksnop; Families; An Inti. Perspective	1-3	342.50
7400:401	Family-Life in the Economically Deprived Home	. 2	\$5	7400:490	Workshop: Family Stress/Coping	1-3	\$30
7400:403	Advanced Food Preparation	3	\$25	7400:490	Workshop: Functional/Dysfunctional Families	1-3	\$4
7400:413	Food Systems Management II	3	\$5	7400:490	Workshop: Heelth Issues of Children	1-3	\$5
7400-414	Food Systems Management II - Clinical	3	\$120	7400:490	Workshop: Helping Families Cone with Stress	1-3	\$5
7400-419	History of Europhyse and Interiors I	š	\$10	7400-490	Workshop: Helping Families Cope War Sacus	1.2	¢5
7400:418	History of Furniture and interiors i	3	310	7400.490	Workshop, neiping Parnines Cope	1-3	30
7400:419	History of Furniture and Interiors II	3	\$10	7400:490	Workshop: Helping Adolescent Sex Offenders	1-3	\$4
7400:420	Experimental Foods	3	\$30	7400:490	Workshop: Home Computer Productivity	1-3	\$10
7400:423	Professional Image Analysis	3	\$12	7400:490	Workshop: Home Word Processing	1-3	\$10
7400:424	Nutrition in Life Cycle	3	\$ 5	7400:490	Workshop: Images for Success	1-3	\$12
7400:425		3	\$25	7400-490	Workshop: Joy of Health Food Preparation	1-3	\$25
7400.420		Ĕ	42.0 #1E	7400.400	Workshop, boy or riderin odd i reperation	10	
7400:420		5	315	7400:490	workshop: warrage and Divorce	1-3	34
7400:427	Global Issues: Text & Apparel	3	\$10	7400:490	Workshop: Nurturing Children	1-3	\$5
7400:428	Nutrition in Medical Science II	5	\$10	7400:490	Workshop: Nutrition for Consumers	1-3	\$5
7400:429	Nutrition in Medical Science II Clinical	3	\$120	7400:490	Workshop: Nutrition Update	1-3	\$5
7400:433	Senior Design Studio I	3	\$20	7400:490	Workshop: Parent/Adolescent Communication	1-3	\$4
7400-434	Senior Design Studio (I)	3	\$20	7400:490	Workshop: Positive Discuss For Parents	1-3	\$3
7400:425	Deserative Elements in Interior Design	1	¢10	7400:490	Morkshop: Polationship Building	1.2	
7400.435	Decorative Electrents in Interior Design		310	7400.490	vvorksrop, neiduorisrip buikuing	1-3	324
7400:436	Textile Conservation	3	\$15	7400:490	workshop: Stress Management	1-3	\$4
7400:437	Historic Costume	3	\$10	7400:490	Workshop: Success Parent & Group Parent	1-3	\$ 6
7400:438	History of Fashion	3	\$10	7400:490	Workshop: Success Parenting-90s	1-3	\$ 6
7400:439	Fashion Analysis	3	\$10	7400:490	Workshop: Teaching Nutrition and Wellness	1-3	\$2
7400:446	Culture Ethnicity and the Family	3	\$10	7400:490	Workshop: Teenegers as Parents	1-3	\$7
7400.447	Capier Carriers Critical Insues in Brof. Development	1	¢10	7400.400	Madahan MadDafat Andiation for Familian	10	#0F
/400:44/	Senior Seminar: Unical Issues in Prot. Development		\$10	7400:490	vvorksnop: vvoruPerrect Application for Pamilies	1-3	\$25
7400:449	Flat Pattern Design	3	\$12	7400:495	Internship: Guided Experiences in Child-Life Program	8	\$20
7400:450	Demonstration Techniques	2	\$5	7400:496	Parent Education	3	\$10
7400:451	Child in the Hospital	4	\$30	7400:497	Internship: Fashion Retailing	2-6	\$18
7400:455	Practicum Experience in a Child-Life Program	3	\$25	7400:497	Internship: Interior Design	2-6	\$25
7400-458	Senior Design Studio II	3	\$20	7500.100	Fundamentals of Music	2	\$20
7400:450	Senior Design Studio IV	2	\$20	7500:101	Introduction to Music Thoop	2	e20
7400.403	Food Industry Analysis and Field Study	3	420	7500.101	Classic Dises I	2	320
/400:4/0	Food Industry: Analysis and Field Study	3	\$10	/500:104	Classic Plano I	2	\$15
7400:474	Cultural Dimensions: Food	3	\$10	7500:105	Classic Piano II	2	\$ 15
7400:475	Analysis of Food	3	\$30	7500:141	Ear Training/Sight Reading I	1	\$15
7400:476	Developments in Food Science	3	\$10	7500:142	Ear Training/Sight Reading II	1	\$ 15
7400:478	Senior Portfolio Review	1	\$10	7500:154	Music Literature i	2	\$10
7400-479	The NCIDO Exemination	i	\$10	7600:165	Music Literature II	2	¢10
7400.473	Community Nutrition I	2		7500,155	Frankrige Advalue II	2	\$10
7400:460	Community Nutrition 1	3	\$25	7500:201	Exploring Music: Bach to Rock	3	\$10
7400:481	Community Nutrition I - Clinical	1	\$30	7500:254	String Instruments Techniques I	2	\$20
7400:482	Community Nutrition Ii	3	\$10	7500:255	String Instruments Techniques II	2	\$20
7400:483	Community Nutrition II - Clinical	1	\$30	7500:261	Keyboard Harmony I	2	\$15
7400:484	Orientation to Hospital Setting	2	\$20	7500:262	Keyboard Harmony II	2	\$15
7400:485	Seminar: AutoC AD for Interior Designers	1-3	\$40	7500.275	Flute/Double Reed Class	1	\$15
7400-495	Seminar Art and Science of Wine	1.2	620	7600:276	Trumpet and French Hern Methods		£20
7400.405	Seminal: Alt and Scence of Wine	1-3	\$30	7500.276	Charlest and Crushese Mathede		\$20
7400:465	Seminar: Child and Farming Health	1-3	\$10	7500:277	Clarinet and Saxophone Methods	1	\$30
7400:485	Seminar: Comm & Ed Skills Dietetics	1-3	\$15	7500:297	Introduction to Music Education	2	\$10
7400:485	Seminar: Computer Applications in FC	1-3	\$5	7500:340	Teaching General Music	2	\$40
7400:485	Seminar: Coping with Chronic Illness	1-3	\$7	7500:341	Curriculum Innovations in General Music	3	\$10
7400:485	Seminar: Dec. Elementary Interior Design	1-3	\$10	7500:345	Low Brass Methods	1	\$20
7400:485	Seminar: Equipment and Demonstration Tech	1-3	\$15	7500:346	Flute and Double Reed Methods	1	\$20
7400:485	Seminar: ECS RSH Methods	1.2	\$10	7500-351	Music History I	3	\$10
7400-405	Sominar: FD Cham and Disson	1.0		7500.551		3	310
7400.460	Seminar, FD Chem, and Disease	1-3	30	/500:352	IVIUSIC FIISTORY II	3	\$10
/400:485	Seminar: Food Safety: Microb IS	1-3	\$5	7500:353	Electronic Music	3	\$25
7400:485	Seminar: Food Safety Overview	1-3	\$5	7500:442	Instrumental Methods	2	\$20
7400:485	Seminar: Food Theory and Application	1-3	\$60	7500:443	Instrumental Practicum	2	\$20
7400:485	Seminar: Human Factors and Interior Space	1-3	\$15	7500:453	Music Software Survey and use	2	\$25
7400:485	Seminar: Interior Design Theories	1.2	\$10	7500.459	Percussion Methods	1	640
7400-495	Seminar Introduction to Eranah Cuisian	1 3	\$7E	7500.400	Madahan Kathi P	10	
7400.400	Cominger, introduction to French Cuisine	1-3	940	7500:490	Aladahara Ada Alici A	1-3	\$10
/400:465	Seminar: Introduction to Italian Cuisine	1-3	\$25	/500:490	workshop: Adv. MIDI Applications	1-3	\$40
/400:485	Seminar: Landscape Architecture	1-3	\$20	7500:490	Workshop: Alexander Technique	1-3	\$50
7400:485	Seminar: NCIDQ Prep	1-3	\$10	7500:490	Workshop: Appalachian Clog and Dance	. 1-3	\$11
7400:485	Seminar: Office Design	1-3	\$15	7500:490	Workshop: Art of Steel Drum Making	1-3	\$12
7400:485	Seminar: Orientation to Nutrician/Dietetics	1-3	\$15	7500:490	Workshop: Brass Teach Techniques for Pu	1-3	\$10
7400:485	Seminar: Quantity Meals	1.3	\$25	7500:490	Workshop: Choral Reading Session	1.3	\$20
7400:485	Seminar: Senior Design Synthesis	1-3	\$15	7500.490	Workshop: Class Guitar Caroor Fact	1.2	6 20
	Contract Contract Contract Contraction	1.0		/ 300.430			÷

58 The University of Akron 2001-2002

Course			Course	Course			Course
Number	Course Title	Credits	Fee	Number	Course Title	Credits	Fee
7500:490	Workshop: Comp Dri Dson Impr Perc	1-3	\$15	7900-124	Reliet I	2	
7500:490	Workshop: Comp MIDI for Musician	1-3	\$40	7900:125	Ballet II	2	40 69
7500:490	Workshop: Comp MIDI Synth for Ed	1-3	\$40	7900:130	Jazz Dance I	2	
7500:490	Workshop: Comp Skills/Vocal Tchrs	1-3	\$15	7900:144	Tan Dance I	2	
7500:490	Workshop: Computerized Drill Design	1-3	\$15	7900:145	Tap Dance II	2	60
7500:490	Workshop: Cond Gest: Inf Chor Tone	1-3	\$25	7900:150	Baltroom Dance I	1	
7500:490	Workshop: Development of MS & HS Jazz Band	1-3	\$20	7900:200	Viewing Dance	3	\$10
7500:490	Workshop: Early Childhood: Philosophy	1-3	\$20	7900:219	Modem III	2	40
7500:490	Workshop: Enhanced Con Amer Lit/Music	1-3	\$15	7900-220	Modern IV	2	- 04. 60
7500:490	Workshop: Excellence in Perf I	1-3	\$150	7900-224	Relet III	2	
7500:490	Workshop: Excellence in Perf II	1-3	\$190	7900.224		3	30
7500:490	Workshop: Engle Music Typeset	1-3	\$40	7900.225		3	36
7500:490	Workshop: Handbell Techniques	1-3	\$10	7900:230	Secolar Dance N	1.	
7500:490	Workshop: Health Dun Class Sneek	1.2	\$10	7900:403	Special Topics: Dance	1-4	\$8 \$6
7500:490	Workshop: Healthind Classroom Son	12	320	7900.490	Classical Datiet Casesable	1-3	38
7500:490	Workshop: Junior High Inst. Technique	12	. 30	7910.101	Classical ballet Ensemble		38
7500:490	Workshop, Junior Flight Inst. Techniques	1.2	\$10	7910:102	Character Ballet Ensemble	1	\$8
7500-490	Workshop: Kodaly IA	12	\$20	7910.103	Contemporary Dance Ensemble		38
7500.490	Workshop, Notary ID Workshop, March Band Tachnic ye	1.0	320	7910.104	Jazz Dance Ensemble	1	. \$8
7500.400	Workshop, Warch Dand Workshop	1-3	210	7910:105	Musical Correctly Ensemble	1	\$8
7600.400	Workshop, Middle School Ceneral Music Chel	10	940	7910:108	Opera Dance Ensemble	1	\$8
7500.490	Modelana Milate Scilor Science Intersic. Citer.	10	320	7910:107	Experimental Dance Ensemble	1	38
7500:490	Workshop: Music for Malintia Linese	1-3	\$10	7910:108	Choreographer's workshop	1	\$8
7500.490	Workshop: Music for Provide Living	1-3	30	7910:109	Ethnic Dance Ensemble	1	\$8
7500:490	Workshop: Music for Special Needs	1-3	\$10	7910:110	Penod Dance Ensemble	1	\$8
7500.490	Workshop: OHFF Level IIA	1-3	\$20	7910:111	Touring Ensemble	1	\$8
7500:490	Workshop: OHFF Level IIB	1-3	\$20	/920:122	Ballet V	5	\$8
7500:490	Workshop: Percussion for Band Directors	1-3	\$10	7920:141	Pointel	2	\$8
7500:490	Workshop: Summer Brass Performance for High School	1-3	\$6	7920:222	Ballet VI	5	\$8
7500:490	Workshop: Summer Clarinet Instrument	1-3	\$20	7900:228	Modern V	3	\$8
7500:490	Workshop: Teaching Music - Early Childhood	1-3	\$20	7920:229	Modern VI	3	\$8
7500:490	Workshop: Teaching Young Singers	1-3	\$20	7920:241	Pointe II	2	\$8
7500:490	Workshop: Techniques for Beginning Bands	1-3	\$20	7920:246	Tap Dance III	2	\$8
7500:490	Workshop: Voice Types, Opera Role	1-3	\$20	7920:270	Musical Theatre Dance Techniques	3	\$8
7500:490	Workshop: Woodwinds Find Tps Sch Dir.	1-3	\$20	7920:316	Choreography I	2	\$8
7510:126	Marching Band	1	\$15	7920:317	Choreography II	2	\$8
7520:021-069	Applied Music for Non-Majors	2	\$125	7920:320	Movement Fundamentals	2	\$8
7520:021-069	Applied Music for Non-Majors	4	\$250	7920:322	Ballet VII	5	\$8
7520:121-469	Applied Music for Music Majors	2	\$125	7920:328	Modern VII	3	\$8
7520:121-469	Applied Music for Music Majors	4	\$250	7920:329	Modern VIII	3	\$8
7600:201	Newswriting	3	\$10	7920:334	Pas De Deux I	2	\$8
7600:204	Editing	3	\$5	7920:341	Pointe III	2	\$8
7600:206	Feature Writing	3	\$ 5	7920:342	Men's Class	2	\$6
7600:270	Voice Training for Media	2	\$15	7920:347	Tap Dance IV	2	\$8
7600:280	Media Production Techniques	3	\$15	7920:351	Jazz Dance III	2	\$8
7600:282	Radio Production	3	\$10	7920:361	Learning Theory for Dance	2	\$3
7600:283	Studio Production	3	\$15	7920:403	Special Topics: Dence	1-4	\$8
7600:300	Newswriting	3	\$10	7920:416	Choreography III	2	\$8
7600:301	Advanced Newswriting	3	\$5	7920-417	Choreography IV	2	\$8
7600:302	Broadcast Newswriting	3	\$5	7920:422	Ballet VIII	5	\$9
7600:303	Public Relations Writing	3	\$10	7920:434	Pas De Deux II	2	\$6
7600:304	Editing	3	\$5	7920:451	Jazz Dance IV	2	\$8
7600:308	Feet as Writing	3	\$5	7920:490	Workshop in Dance	1.3	69
7600:309	Public Relations Publications	3	¢10	7920:497	Independent Study in Dance	1-3	
7600:344	Group Decision Making	ă	\$5	7920-498	Senior Honors Project in Dance	1-3	69
7800-345	Business and Professional Speaking	2	\$10	/320.430	Control Frontions in Froject in Dance	10	40
7600:346	Adv Public Speaking	3	\$10	College of Nu	rsing		
7600.340	Resis Audio and Video Editing	2	\$15	8200-211	Foundations of Nursing Practice I	5	\$90
7000.305	Communication Technology & Cha	2	\$15 \$6	8200.211	Foundations of Nursing Practice II	5	\$50
7600.373	Redio & TV Writing	3	65	8200-215	Professional Role Devalorment	3	\$10
7800-405	Made Consumition	3	\$10	8200-225	Health Assessment	3	\$70
7800-403	New Media Writing	3	\$10 \$E	8200-215	Pathonhusiology Nurses	2	\$10
7600.410	Now Madia Production	3	40 \$15	8200-225	Cultural Dimensions of Nursion	2	\$10
7800.417	Menazine Writing	3	-910 -95	8200.323	Nursing Pharmacology	3	610
7000:420	Commonsiel Electronic Dublinhing	3	30 #10	9200-226	Concepts of Professional Nursing	3	\$10
7000.420	Contractical Electronic Fublishing	2	\$1U \$1E	8200.330	Nursing of the Childheating Early	5	\$70
7000:408	Norsenear video Editing Single Company Production	3	\$15	8200-380	Nursing Of the Criscobeling Paring	5	\$70
7000:472	anger Califora FloudCuon Destuction Desetion	3	410 #16	8200.300	Nursing Care of Older Adulto	5	\$70
7000:483	Frouction Practicum	3	\$10 #1E	8200.370	Month Health Numing	5	620
7700:350	Engance Pracecum	3	\$15 #15	8200.380	Numical Com of Healthy Individuals	5	\$10
7700:351	Clinical Prosticum: Armal Calcale	4	a15	0200.400	Nuraing Caro of Fleatury Individuals	6	\$10
7700:352	Clinical Practicum: Aural Henab	2	\$10	8200.410	Nursing Families with Complex Health Problems	5	\$00
7700:440	Augumentative Communication	3	510	0200.410	Numing of individuality with Complex Field Problems	2	\$10
7700:450	Assessment or communicative Disorders	3	\$15 \$15	0200.430 9200.43E	Hurston Recent ch	3	\$00 \$10
7700:451	Autorogy Screening Practicum	2	315	0200:430	Nursing of Computation	5	\$10
7/00:461	UNAL FUDIC SCHOOL SPEECT-Lang. and Hr. HT.	2	30	0200,440	Professional Numina Loadamhia	5	810
7800:106	Intro to Scenic Design	3	30	0200.450	FIDIESSIDIZE INUTSING LeaderShip	5	\$1U
/800:107	Introduction to Stage Costuming	3	\$12	8200:450	Senior Nursing Practicum	0	\$55
/800:1/2	Acong I	3	23	6200:405	Froiessional issues	4	\$10
/800:263	Scene Painting	3	\$5	8200:485	Leauership and management holes: Prof. of Nursing	9	\$25
/800:265	Basic Stagecraft	3	\$10				
7800:301	Introduction to Theatre/Film	3	\$3				
7600:307	Advanced Stage Costuming	3	\$20				
7800:355	Stage Lighting Design	3	\$10				
7600:480	Independent Study	1-3	\$5				
7900:115	Dance as an Art Form	2	\$8				
7900:119	Modern	2	\$8				
7900:120	Modern II	2	\$8				

Installment Payment Plan

This plan is designed to spread registration and University housing fees into as many as four installments (two during a summer semester) depending on when the application is received. The payment plan will be available as an option for payment through the 15th day of the semester. An application fee of \$26.00 is assessed for the Installment Payment Plan (IPP). Charges subject to change without notice.

Semester applications are to be received in the office by the close of business on the billing due date. Application forms are included with the student fee invoice or may be obtained in the Installment Payment Office. The application fee only is required, along with your signed application to begin the plan. Additional funds may be added to the application fee to lessen future payments. Your **processed** financial aid will be used against your charges. Upon receipt of your application and application fee, a billing request for your first payment will be processed. The balance will be billed either in one, two, or three equal installments, depending on the semester and registration period. All past due obligations must be paid prior to participation in the payment plan. Monthly invoices will be sent to your listed mailing address indicating the amount due and the required payment date. However, it is the student responsibility to know when payments are due and to pay on time even though an invoice may not have been received.

Any course(s) added or dropped will adjust automatically to the payment plan. Your payment due will reflect the increased amount of any course added. Any credit received from a dropped course will be deducted from the amount you owe, depending on the period in which you withdraw, and subject to the withdrawal and refund policies of the University.

If additional installments are not received on or before their due date, a late charge is assessed at \$20 per payment. Charges subject to change without notice.

Student Health and Accident Insurance

Student health and accident insurance designed specifically for a student of The University of Akron is required of all residence hall students and all international students except those who present proof that they already have similar coverage. Other students enrolled for six or more credit hours may purchase this insurance, at the same annual individual rate, through the Student Health Services Office.

For more information, contact Health Services at 330-972-7808.

Veterans Expenses

A disabled veteran who is eligible for admission to the University may register for courses without payment of fees if the disabled veteran has been authorized for training by the V.A. If the disabled veteran has not been authorized, payment of all fees is required. However, the University will return to the veteran the payment made when the official authorization is received.

A non-disabled veteran must pay fees at the time of registration. The nondisabled veteran will receive direct payment from the V.A. after enrollment has been certified under the provision of USC Title 38.

An Ohio Veterans Bonus Commission recipient may arrange with the Accounts Receivable Office to have the Ohio Bonus Commission billed directly for tuition charges only.

Dependents of a veteran covered under other provisions of USC Title 38 must pay fees at the time of registration. The V.A. will make direct payment to the payee.

Regulations Regarding Refunds – Credit/Noncredit

All fees, e.g., instructional, general, parking, etc., are subject to change without notice. Students shall be charged fees and/or tuition and other fees in accordance with schedules adopted by the Board of Trustees. Registration does not automatically carry with it the nght of a refund or reduction of indebtedness in cases of failure or inability to attend class or in cases of withdrawal. The student assumes the risk of all changes in business or personal affairs.

Fees Subject to Refund - Credit

Certain fees are subject to refund.

- Instructional fee (tuition) and nonresident surcharge.
- General fee.
- · Course materials and computing fee
- Student parking fee (only if permit is returned).
- Student teaching fee.
- Laboratory breakage and late service deposit.
- Residence hall fees (note: subject to special policy).
- Technology fee.

Amount of Refund - Credit

Amount of refund is to be determined in accordance with the following regulations and subject to course instructor/adviser signature requirements contained in The University of Akron's official withdrawal policy:

- In full
 - if the University cancels the course;
 - if the University does not permit the student to enroll or continue except for disciplinary reasons. No refund will be granted to a student dismissed or suspended for disciplinary reasons;
 - if the student dies before or during the term; is drafted into military service by the United States; is called to active duty; or if the student enlists in the National Guard or Reserve prior to the beginning of the term. Notice of induction or orders to active duty is required if the student is called to active duty. A student who enlists voluntarily for active duty should see "in part" below.

In part

 if the student requests official withdrawal after the Sunday (Midnight) which begins the second week of the fall or spring semesters, the following refund percentages apply:

During the second week of the semester	70%
During the third week of the semester	50%
During the fourth week of the semester	30%
During the fifth week of the semester	20%
Thereafter	0%

 if the student requests official withdrawal after the Sunday (Midnight) which begins the second week of the semester of any summer session the following refund percentages apply:

During the second week of the summer session	40%	
Thereafter	0%	

- refunds for course sections which have not been scheduled consistent with either the standard 15-week fall/spring semester or the five-week summer term scheduling pattern will be handled on a pro rata basis according to the number of days of the section (class, institute, or workshop) which have passed compared to the number of days said section has been scheduled to meet.
- Refunds will be determined as of the date of formal withdrawal unless proof is submitted that circumstances beyond control of the student, e.g., hospital confinement, prevented the filing of the formal withdrawal earlier, in which case the refund will be determined as of said circumstance. The student assumes responsibility for filing for a refund.
- Refunds will be mailed as soon as possible. Refund checks are subject to deduction for any amount owed to The University of Akron by the student.

Refund Policy for Noncredit Courses

If a non-credit course is canceled by The University of Akron, a full refund will be issued. Withdrawal requests received up to three (3) business days prior to the first class meeting will result in a full refund less a \$10 processing charge, or an opportunity to transfer to another course. Thereafter, withdrawal requests received up to the beginning of the second class meeting will receive a 50% refund. No refunds are issued after the second day of classes. Exceptions to this policy are noted in the non-credit schedule of classes. Substitutions may also be accepted in lieu of a refund.

Refunds for non-credit courses are determined by the date the withdrawal request is received. The refund period cannot be extended if the student fails to attend the first class. Charge cards and refund checks will be processed promptly. Parking permits must be returned to the Continuing Education office to receive a refund.

Note: See page 62 for additional refund information if Financial Aid is involved.

Residence Hall Refunds

Refund/Release and Forfeiture Policy

A Contract for Housing Accommodations and Food Services at The University of Akron which is terminated by the student, or otherwise terminated by The University of Akron, is subject to the following refund provisions:

- A full refund of any prepaid fees (including the \$150 prepayment) in accordance with the Refund/Release Schedule provisions include:
 - Graduation of the STUDENT from The University of Akron.
 - Academic dismissal of the STUDENT from The University of Akron.
 - Non-attendance or complete withdrawal by the STUDENT from the UNI-VERSITY prior to the start of the Contract Terms (except the required prepayment which shall be forfeited). The required prepayment will be refunded to NEW FRESHMEN when notification of intent to cancel Contract is received prior to May 15 for Contracts commencing Fall Semester.
 - Mandatory or recommended participation in academic programs of The University of Akron requiring the STUDENT to commute or relocate beyond the Akron metropolitan area (i.e., student teaching, study abroad programs, or co-op engineering assignment). The STUDENT will be required to provide written verification of his/her participation in such programs.
- A partial refund of prepaid fees (except the \$150 prepayment) according to the Refund Schedule and release of financial liability for subsequent semesters covered by the Contract Terms, in the event the STUDENT: (1) completely withdraws from The University of Akron after the start of the Contract Term; (2) marriage with legal documentation provided; (3) military activation. In such instances, the STUDENT shall not be liable for further forfeiture. The STUDENT will be required to provide written verification of his/her actions and/or obligations. The \$150 rental prepayment by RETURNING STUDENTS is retained by the UNIVERSITY regardless of cancellation date.
- · A partial refund of prepaid fees in accordance with the Refund Schedule:
 - In the event the UNIVERSITY, in its sole discretion, terminates the Contract for reasons related to the orderly operation of the Residence Halls, or for reasons relating to the health, physical, or emotional safety and well-being of the STUDENT, or for reasons relating to the health and well-being of the persons or property of other students, faculty, staff, or UNIVERSITY property. In such instances the STUDENT shall not be liable for further forfeitures and shall be released of further financial liability beyond the date of termination.
 - In the event the STUDENT violates the Contract for any reason, except that as set forth below, prior to the end of the terms thereof but continues to be enrolled as a STUDENT at The University of Akron. In addition, if the STUDENT has contracted for any subsequent semester beyond that semester in which the Contract is terminated, the STU-DENT shall pay, as forfeiture, for cancellation of the Contract an additional amount of \$200.
 - In the event the STUDENT is dismissed or suspended from The University of Akron for disciplinary reasons in accordance with laws or rules and regulations of the Board of Trustees, or, if the STUDENT is placed on terms of disciplinary probation in accordance with laws or rules and regulations of the Board of Trustees, whereby such terms of probation prohibit the STUDENT from residing in UNIVERSITY housing accommodations.

It is agreed that the University may terminate this Contract prior to the expiration of the Contract term and require the student to vacate the STUDENT'S room if it is determined by the University that the STUDENT violated a term of this Contract or any of the rules and regulations specified above in this paragraph. Such a determination will be made only after a hearing is convened of which the student is given prior written notice and the right to be heard in accordance with the University's applicable disciplinary procedures and regulations.

These conditions do not waive the STUDENT from financial liability for any fees which are due later than the effective date such termination, dismissal, suspension, or probation.

Refund Schedule

Beginning with the first day of the fall and spring semesters, the following refund percentages shall apply for all contracts for housing accommodations and food services:

- One to twelve inclusive calendar days: 70% refund and 70% food plan, if applicable;
- 13 to 24 inclusive caldendar days: 50% refund of housing and 50% food plan, if applicable;
- 24 to 36 inclusive calendar days: 30% refund of housing and 30% food plan, if applicable;
- Thereafter: 0%

Notice Requirements

All notices of intent to terminate the Housing Accommodations and Food Services Contract must be submitted in writing to the Department of Residence Life and Housing. If the student is a minor (under the age of 18 years), the written notification of termination must be cosigned by the student's parent or legal guardian.

THE UNIVERSITY OF AKRON RESIDENCY REQUIREMENTS

Students wishing to apply for a change in residency status for tuition purposes must file a Validation of Ohio Residency Status Form, which can be obtained from the Office of the Registrar, Spicer 104 or at www.uakron.edu/registrar/forms.htm. After completion, the student may be required to submit the necessary documents in support of their petition for Ohio residency. After careful review, a determination is made and the classification is adjusted appropriately. Please submit the Validation of Ohio Residency Status Form at least two weeks prior to the beginning of the term for which the reclassification is requested.

If a student believes he/she qualifies for Ohio residency based on any of the residency rules or exceptions, the student still must petition for residency to be eligible to qualify as an in-state student.

Payment of a nonresident tuition surcharge is required of any student who does not qualify as a permanent resident of Ohio as defined by Section 3333-1-10 of the Ohio Revised Code

A. Intent and Authority

- It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the state of Ohio primarily for the purpose of receiving the benefit of a state-supported education.
- This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Revised Code.

B. Definitions

For purposes of this rule:

- 1. A "resident of Ohio for all other legal purposes" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the Revised Code, provided such person has not, within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.
- "Financial support" as used in this rule, shall not include grants, scholarships, and awards from persons or entities which are not related to the recipient.

- 3. An "institution of higher education" as used in this rule shall mean any university, community college, technical institute or college, general and technical college, medical college or private medical or dental college which receives a direct subsidy from the state of Ohio.
- 4. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, "domicile" is a person's permanent place of abode; there must exist a demonstrated intent to live permanently in Ohio, and a legal ability under federal and state law to reside permanently in the state. For the purpose of this policy, only one (1) domicile may be maintained at a given time.
- 5. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the United States.

C. Residency for subsidy and tuition surcharge purposes

The following persons shall be classified as residents of the state of Ohio for subsidy and tuition surcharge purposes:

- A dependent student, at least one of whose parents or legal guardian has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.
- 2. A person who has been a resident of Ohio for the purpose of this rule for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.
- 3. A dependent child of a parent or legal guardian or the spouse of a person who, as of the first day of a term of enrollment, has accepted full-time selfsustaining employment and established domicile in the State of Ohio for reasons other than gaining the benefit of favorable tuition rates. Documentation of full-time employment and domicile shall include both of the following documents:
 - a. A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that parent or spouse of the student is employed full-time in Ohio.
 - b. A copy of the lease under which the parent or the spouse is the lease and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which parent or spouse is the owner and occupant; or if parent or spouse is not the lease or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that parent or spouse resides at that residence.

D. Additional criteria which may be considered in determining residency for the purpose may include but are not limited to the following:

1. Criteria evidencing residency:

- a. if a person is subject to tax liability under Section 5747.02 of the Revised Code;
- b. if a person qualifies to vote in Ohio;
- c. if a person is eligible to receive state welfare benefits;
- d. if a person has an Ohio driver's license and/or motor vehicle registration.
- 2. Criteria evidencing lack of residency:
 - a. if a person is a resident of or intends to be a resident of another state or nation for the purposes of tax liability, voting, receipt of welfare benefits, or student loan benefits (if the loan program is only available to residents of that state or nation);
 - b. if a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of welfare benefits.

E. Exceptions to the general rule of residency for subsidy and tuition surcharge purposes.

- A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education.
- 2. A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
- 3. A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.

- 4. A person who is transferred by his or her employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile as long as such person has fulfilled his or her tax liability to the state of Ohio for at least the tax year preceding enrollment.
- 5. A person who has been employed as a migrant worker in the state of Ohio and his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

F. Procedures

- A dependent person classified as a resident of Ohio for these purposes (under the provisions of Section C. 1 of this rule) and who is enrolled in an institution of higher education when his or her parents or legal guardian removes their residency from the State of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.
- In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of 12 months following such removal, constitute relinquishment of Ohio residency status other wise established under paragraphs C. 1. or C. 2. of this rule.
- 3. For students who qualify for residency status under C.3., residency status is lost immediately if the employed person upon whom resident student status was based accepts employment and establishes domicile outside Ohio less than 12 months after accepting employment and establishing domicile in Ohio.
- 4. Any person once classified as a nonresident, upon the completion of 12 consecutive months of residency, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding 12 consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident. Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of documentation regarding the sources of a student's actual financial support.
- Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification.
- 6. Any institution of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

Financial Aid

Financial aid programs were developed by the federal and state governments as well as by institutions of postsecondary education to assist students from families with limited resources to meet educational expenses. The primary purpose of financial aid is to ensure that no one is denied the opportunity of a college education because of financial need.

When applying for financial aid at The University of Akron, the Office of Student Financial Aid determines a budget that best suits the needs of the student. The budget includes direct costs that must be paid to the University (instructional and general fees and room and board in the residence halls) and variable expenses such as transportation and personal expenses.

Generally, financial aid is provided in three forms: gift aid, loans, and work. It is not unusual for a student to have all three forms of aid. This is called a "financial aid package." If a person receives a proper financial aid package, it is assumed that the family will not be expected to contribute more than is reasonable for a family member's education. The word "family" is crucial because the financial aid system assumes that the family will work together to assist a family member meet college expenses.

MISSION STATEMENT

The mission of the Office of Student Financial Aid is to assist students in procuring the financial aid they qualify for in order to promote their academic, social, cultural, personal and physical growth and development.

In the Office of Student Financial Aid, we are aware of the changing needs of today's college student. Therefore, we are committed to assisting students in meeting their financial obligations to The University of Akron.

SOURCES OF AID

To meet the needs of the financial aid applicant there are a number of sources from which aid can be received. The following programs represent those sources of aid for which The University of Akron selects recipients and/or distributes the funds. The application(s) for these programs can be obtained at the Office of Student Financial Aid.

Federal Programs

Federal Pell Grant

This is the basic federal grant program for undergraduate students. The U.S. Department of Education determines eligibility, and money is disbursed by the University. Because this is a "grant," it is not repayable. The amount of the grant varies based on hours of enrollment. After applying for the grant, the student will receive a Student Aid Report (SAR); The University of Akron will receive the information electronically as long as the student listed The University of Akron as a college choice on the application. The award is based on full-time enrollment. If enrollment is less than full time, an adjustment to the Pell Grant will be necessary.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This is a non-repayable grant that is offered to undergraduate students who have exceptional need as determined by the U.S. Department of Education. These grants are only awarded to students who meet the strict guidelines established by the Department of Education and who have met the priority awarding deadline (March 1) established by The University of Akron. Entering freshmen and continuing students must have a 2.00 grade point average and must be enrolled for a minimum of six (6) credit hours to be eligible.

Federal College Work-Study Program (FCWSP)

The College Work-Study Program is a program that provides an eligible student with a job on-campus or, in limited cases, an off-campus job related to community service. Eligibility for FCWSP is determined on the basis of need, early application (March 1), a 2.00 grade point average, and a minimum enrollment of six (6) credit hours each semester. This award shows the amount of money that can be earned while employed as a work-study student during the academic year. This award is earned through employment and cannot be deducted from the fee invoice.

Federal Perkins Loan

The Federal Perkins Loan Program offers low-interest, long-term loans for an eligible student. Eligibility and loan amounts are determined through early application (March 1), a 2.00 grade point average and need. This federal loan must be repaid, beginning nine months after ceasing to be enrolled for a minimum of six (6) credit hours. The current interest rate is 5 percent and is calculated at the time repayment of the loan begins.

Federal Subsidized Stafford Loan

This program offers low-interest loans to an eligible student on the basis of financial need. The Free Application for Federal Student Aid (FAFSA) must be completed and processed. The interest for this loan is paid by the federal government while the student is in school. An award notification, estimating the potential eligibility for the loan, will be sent to the student.

Federal Unsubsidized Stafford Loan

This loan is not based on financial need. The government does not pay the interest while the student is in school. The student can elect to pay the interest or have the interest capitalized. Interest will begin accumulating on the unsubsidized portion immediately. Steps for application are the same as the Federal Subsidized Stafford Loan.

Nursing Student Loan

The Nursing Student Loan Program offers low-interest, long-term loans for eligible students. Eligibility and loan amounts are determined through early application (March 1), a 2.00 grade point average, minimum enrollment of six (6) credit hours, and need. The federal loan must be repaid beginning nine months after ceasing to be enrolled for the minimum credit hour requirement. The current interest rate is 5% and is calculated at the time repayment of the loan begins.

Federal PLUS Loan

The parents of undergraduate, dependent students may borrow through this program. Eligibility is not based on financial need. If this is the only aid the student is seeking, a FAFSA does not have to be completed. There is no annual limit, so parents may borrow up to the cost of attendance less any other financial aid. Applications may be obtained at the University or by contacting your local lending institution. Low monthly payments for this variable-interest rate loan begin 30-60 days after loan receipt unless alternative arrangements are made with the lender.

State Programs

Ohio Instructional Grant (OIG)

The OIG is available to an eligible undergraduate student who is an Ohio resident. Eligibility is based on family income. The grant is awarded by the Ohio Board of Regents. If eligible, the school will receive an award notice to disburse funds to the student. The student must complete the FAFSA to apply for the grant.

Ohio Academic Scholarship

The state of Ohio awards scholarships each year to a graduating senior from each high school in Ohio. The scholarship must be used at a college in Ohio. The amount is \$1,000 and is renewable for four years.

Ohio National Guard Scholarship

This scholarship is available to the student who enlists in the Ohio National Guard. Contact a local recruiter for information.

Ohio War Orphans Scholarship

Scholarships are available to a student whose father or mother was a veteran from Ohio and has been disabled or deceased. For information contact the Ohio Board of Regents at (888) 833-1133 or (614) 644-7420.

University Programs

Scholarships

The University offers scholarships to students with high academic achievement. Academic scholarships are awarded to the continuing student as well as the outstanding high school student who plans to enroll. These academic scholarships are renewable each year based on continued high academic performance. A *University Scholarship Application* must be submitted **each** academic year. Priority deadline for entering freshmen applicants is February 1, for continuing students April 1. In order to be considered for all possible scholarships, students should also complete a Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1, but no later than March 1, each year. While scholarship requirments vary, all those listed here, unless noted otherwise, require students to carry a minimum of 12 credit hours per semester while enrolled at The University of Akron.

Scholarships for Excellence are awarded to the top entering freshmen from the State of Ohio. Recipients are selected from among applicants who meet the following minimum requirements: high school grade point average of 3.50, class rank in the top 10 percent and nation test score of at least 26 ACT/1160 SAT. It is renewable, with a maximum of eight semesters of eligibility.

Presidential Scholarships are awarded to entering freshmen selected from among the top students remaining in the Scholarship for Excellence pool after the Scholarship for Excellence recipients have been selected. Renewable, with a maximum of eight semesters of eligibility. The **University Honors Program** provides scholarships, curriculum options, special housing and other advantages to especially motivated and high-achieving undergraduates who meet the program's admission requirements. Candidates are selected by the University Honors Council. Essay and interview required.

Jim and Vanita Oelschlager Leadership Awards are focused on the long-term potential of talented entering freshmen from northeast Ohio and parts of Pennsylvania who have demonstrated leadership, scholarship and service. Documentation of leadership and/or service is required. Scholarships are prorated for less than full-time enrollment. Renewable, with a maximum of eight full-time semesters of eligibility.

National Merit Finalists are offered freshmen scholarships covering the full cost of Ohio tuition, fees, room and meal plan. For the remaining three years, the scholarship covers full tuition and fees. Renewable, with a maximum of eight semesters of eligibility.

Academic Scholarships are awarded to continuing and outstanding high school students. Students with the strongest credentials qualify until funds are exhausted. Renewable.

ROTC Scholarships are available to qualified students who demonstrate academic and leadership potential. Special incentives are available for students majoring in nursing. Contact the Army or Air Force office for details.

Departmental and Performance Scholarships are offered by many academic departments and are usually based on academic record or an audition/portfolio.

Installment Payment Plan

The University offers an Installment Payment Plan (IPP) to the student who needs temporary help in paying tuition and housing. Information and applications are available at the IPP Office (Spicer Hall 105) 330-972-5100.

Student Employment

Located in Spicer Hall 127, Student Employment assists students in finding parttime employment opportunities both on and off campus. These positions may or may not relate to students' career goals and are designed to allow the students to work around their academic schedules. Check the "Student Job Board" outside of Spicer 127 for on- and off-campus part-time job listings. Register for the applicant pool in Spicer 127, or call 330-972-7405.

Job Location & Development

The Job Location & Development Program exists to assist students in locating offcampus part-time employment. By working part-time, students are able to gain some valuable work experience and to earn money to assist with college expenses. Parttime jobs are posted in glass display cases and in notebook binders in the the Office of Student Financial Aid and Employment in Spicer Hall 127.

Student Volunteer Programs

Student Volunteer Programs seek to recruit and refer students for volunteer positions with social service and nonprofit agencies in Northeast Ohio. Volunteering offers students a wealth of experience which will enable discovery of the reality of American life in ways that cannot be as graphically communicated in the classroom. In addition, the rendering of public service by student volunteers will help them develop an understanding of professional requirements and their role as truly educated citizens; enhance their educational experiences; give concrete form to the abstract learning of the college curriculum by applying it to immediate human needs; and know that a truly successful life must include helping others.

Students who are in good academic standing may participate in the program's volunteer activities. Students are also expected to respect the rules and regulations of their volunteer agency. The Student Volunteer Program is located in the Office of Student Financial Aid and Employment in Spicer Hall 119.

Application for Financial Aid

To apply for the Federal Pell Grant, Ohio Instructional Grant, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Nursing Student Loan, Federal Stafford Loan (Subsidized and Unsubsidized), and the Federal College Work-Study Program, the student must complete and submit the Free Application for Federal Student (FAFSA) or the Renewal Application to the Federal Processor. Applications are available in January for the following school year. Applications can also be completed on the World Wide Web at www.fafsa.ed.gov. For technical assistance, call 1-800-801-0576.

Computation of Financial Aid

Government formulas determine what the family may be able to contribute toward the student's education. This amount is called the family contribution. Some of the key factors involved in computing the family contribution are as follows:

- Family income
- Family assets
- Number of family members in college
 Medical bills
- Family size
- Unusual expenses

The difference between the cost of education and the family contribution is called the unmet need. The unmet need is the amount the Office of Student Financial Aid attempts to cover through various financial aid programs to assist a student in meeting educational costs.

Notification of Award

A student will be notified of the aid package by a Financial Aid Award Notification sent to the mailing address. If questions arise regarding the Financial Aid Award Notification, either call or write the office for clarification.

Distribution of Aid

Most financial aid will be applied directly to the tuition fee invoice. Awards are based on full-time enrollment (12 semester credits). If the student is not taking at least 12 credits, contact the Office of Student Financial Aid so that financial aid may be adjusted.

The student is awarded aid for the entire academic year; however, the aid is disbursed proportionately each semester. A brochure giving specific instructions will be included with the students' award notification. If a student's aid exceeds the direct costs, the difference is given to the student prior to the beginning of each semester to assist with other educational expenses such as transportation, housing, books, etc.

The student must maintain satisfactory enrollment status to be eligible for all aid.

Revision of Awards

After receipt of the financial aid award, situations may arise which may necessitate a revision in the aid package. A revision may result from receipt of an outside scholarship; a dramatic change in the family income such as unemployment of a parent or a divorce, etc. If family circumstances change, contact the Office of Financial Aid so the aid package may be reviewed.

Eligibility for Aid as it Applies to Certain Classifications of Students

Transfer Students

The University of Akron Office of Student Financial Aid will use the National Student Loan Database (NSLDS), eliminating the need to request individual financial aid transcripts (FATs) for most Title IV student aid applicants. The exception will be mid-year transfers (anyone who has attended any other college after January 1, 1999). The University does reserve the right to request FATs for any applicant that displays conflicting information.

If a student is transferring to the University during the academic year and has received a Federal Pell Grant and/or OIG from the prior school, the student must:

- Request a duplicate Student Aid Report from Federal Pell Programs. This duplicate Student Aid Report must be sent to the Office of Student Financial Aid before any funds can be disbursed to the student. Instructions for receiving a duplicate Student Aid Report can be obtained from the office.
- Have the former Financial Aid Office provide a transfer request to have the OIG transferred to The University of Akron. Federal Perkins Loans, Federal College Work-Study Programs, Federal Supplemental Educational Opportunity Grants, and scholarships do not automatically transfer. The student must reapply for these programs at The University of Akron.

Graduate, Law, and Postbaccalaureate Students

A graduate or professional student who has already received a bachelor's degree can apply for the Federal Subsidized and Unsubsidized Stafford Loans. The Federal Pell Grant, Ohio Instructional Grant and Federal Supplemental Educational Opportunity Grant cannot be received. Postbaccalaureate students can only apply for Subsidized and Unsubsidized Stafford Loans. A graduate assistantship is available through various graduate departments. A graduate fellowship and other graduate awards are distributed by the Graduate School; therefore, a separate application is required.

Guest Students

A guest student is one who is taking classes at The University of Akron but will receive the degree at another institution. Contact the Office of Student Financial Aid for written instructions on how to receive financial aid.

International Students

A student in the United States on a student or other temporary visa is not eligible for any state or federal financial aid. Application for scholarships, short-term loans, and some types of employment may be made.

Veterans

A veteran may be eligible to receive educational benefits through the Veterans Administration and should contact the Veterans Office, Spicer Hall Room 112, at the University for details.

Student Rights and Responsibilities

It is your right as a student to know and understand all aspects of your financial aid award. It is also your responsibility to follow all rules of each program. We anticipate that the information contained in this Bulletin will assist you with your questions regarding financial aid.

Standards of Satisfactory Academic Progress

Financial Aid recipients are required to be making Satisfactory Academic Progress toward completion of their educational programs as determined by the Office of Student Financial Aid. This is true whether or not student financial aid has been received previously. A copy of the Standards of Satisfactory Academic Progress Policy may be obtained from the Office of Student Financial Aid in Spicer Hall, Room 119.

Refund/Repayment Policy (Title IV Return of Funds)

Students on Financial Aid:

This policy is used to determine the amount of federal student aid that must be returned to the appropriate aid programs and should not be confused with the published university refund policy. When a student withdraws from all classes on/or after the first day of classes **and** the student has received financial aid the following refund policy will apply:

The refund/repayment policy is a pro-ration of earned versus unearned financial aid. The earned financial aid percentage is determined by taking the days attended in the period by total days in the period. (Example: Student withdraws 5th day of the semester which has 110 days in its period, 5/110 = 5 percent earned.) Subtracting earned aid from aid that was awarded and disbursed gives you the amount of unearned aid that must be returned. The responsibility to repay unearned aid is shared by the institution and the student in portion to the aid each is assumed to possess. The federal formula is applicable to all students who receive Title IV federal aid and withdraws on or before the 60 percent point in the semester.

Under the refund/repayment policy, the programs are reimbursed in the following order: Unsubsidized Stafford Loan, Subsidized Stafford Loan, Federal Perkins Loan, PLUS Loan, Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, State Grant.

Please inquire in the Office of Student Financial Aid for more information on our refund policy or if you would like to review examples.

Family Education Rights and Privacy Act (FERPA)

A student has a right to:

- Inspect and review education records pertaining to the student;
- Request and amendment to the student's records; and
- Request a hearing (if the request for an amendment is denied) to challenge the contents of the education records, on the grounds that the records are inaccurate, misleading, or violate the rights of the student.

The parent or eligible student has a right to:

- Inspect and review the student's education records;
- Request the amendment of the student's education records to ensure they are not inaccurate, misleading, or in otherwise in violation of the student's privacy or other rights.
- Consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.
- File with the U.S. Department of Education a complaint concerning alleged failures by the school to comply with the requirements of FERPA; and

Obtain a copy of the school's FERPA policy.

Disclosure of Personally Identifiable Information

- FERPA regulations list conditions under which "personally identifiable information" from a student's education record may be disclosed without the students prior consent.
- Disclosure may be made to authorized representatives of the U.S. Department
 of Education, the Office of Inspector General, or state and local education
 authorities. These officials may have access to education records as a part of
 an audit or program review, or to ensure compliance with Student Financial
 Assistance program requirements. (Representatives of the Department
 include research firms that are under contract with the Department to conduct
 studies of financial aid procedures, using student information provided by the
 schools selected for the study. The term also includes the Student Financial
 Assistance program public inquiry contractor.)
- Disclosure may be made if it is in connection with financial aid that the student
 may receive a request from the Immigration and Naturalization Service (INS) or
 the Federal Bureau of Investigation (FBI) for access to a student's records.
 Such a request may be granted only if the student information is needed to
 determine the amount of the aid, the conditions for the aid, the student's eligibility for the aid, or to enforce the terms or conditions of the aid.
- Disclosure may be made to the student's parent, if the student is dependent on the parent, as defined by the Internal Revenue Service. If the student receives more than half of his or her support from the parent, under the IRS definition, the student is a dependent of the parent. (Note that the IRS definition is quite different from the rules governing dependency status for the Student Financial Assistance programs.)
- Disclosure may be made to organizations that are conducting studies concerning the administration of student aid programs on behalf of educational agencies or institutions.

Inquiries

Since the process of applying for financial aid may at first seem complicated, it is suggested that families contact a high school counselor or a University financial aid officer for additional information. Direct inquiries to: Office of Student Financial Aid, Spicer Hall 119, The University of Akron, Akron, OH 44325-6211; Phone: 330-972-7032 or (800) 621-3847. The Office of Student Financial Aid is scheduled to move to the Student Administration Building (SAS) at 185 East Mill Street by January, 2002.



Undergraduate Academic Programs

Community and Technical College

William H. Beisel, Ed.D., Interim Dean Michael J. Jalbert, J.D., Interim Associate Dean Carol Gigliotti, Ph.D., Assistant Dean Don Laconi, Assistant Dean

OBJECTIVES

The Community and Technical College helps to further the goals and purposes of the University by emphasizing the following objectives:

- The college serves the student by providing the means to examine academic and career opportunities considering interests, abilities and achievements.
- The college provides for industry, business, government agencies, health-care establishments and human service occupations; pre-service and in-service training for entry-level positions and/or advancement in employment.
- Consistent with the philosophy of learning as a life-long experience, the college provides educational opportunities for the student no matter the age, background and need; full- or part-time, day or evening.
- The college provides quality instruction with qualified and experienced teachers who are encouraged to use the community as a "laboratory" for achieving educational goals.

The college recommends each student for the appropriate degree in accordance with their level of academic accomplishment.

The college offers both pre-service and in-service training; pre-service for the recent high school graduates who can receive an associate degree upon the satisfactory completion of a program of study; and in-service through evening courses where employed persons may pursue the same degrees while working full time. The college also offers some bachelor's degrees, certificates and minors.

Cooperative Education

Minimum requirements for cooperative education students include the following:

- Enrollment in a program of study offered by the Community and Technical College wherein cooperative education has been established.
- Minimum grade-point average of 2.00 for all University of Akron course work and a minimum of 2.00 for all course work applicable to program of study.
- Completion of specific courses and/or credits for a particular program as approved by the college faculty.

Minor Areas of Study

For an explanation of minor areas of study in the Community and Technical College, see **Section 5** of this Bulletin.

BACCALAUREATE DEGREE PROGRAMS OF INSTRUCTION

Emergency Management (Step-Up) Degree Program

Bachelor of Science in Emergency Management

For the first and second years, see Associate Degree Program in Fire Protection. Technology (65 credits), Criminal Justice Technology (64 credits), Environmental Health and Safety Technology (69 credits)

Third Year

		Crocks
2235:305	Principles in Emergency Management	3
2235:380	Disaster Victims: Casualties and Recovery	3
2235:490	Current Topics in Emergency Management	3
3300:112	English Composition	3
3350:310	Physical and Environmental Geography	3
3370:200	Environmental Geology	3
3370:201	Exercises in Environmental Geology Lab	_1
		16

Spring Seme	ster	Credits
2235:350	Emergency Response Preparedness and Planning	3
3350:305	Maps and Map Reading	3
3400:210	Humanities in Western Traditions I	4
3370:xxx	Natural Science	1
5540:xxx	Physical Education	1
	Area Studies & Cultural Diversity	_2
Fourth Year		17
Fail Semeste	r	
2235:405	Hazard Prevention and Mitigation	3
2235:450	Emergency Management Research Methods and Applications	4
2980:227	Introduction to Geographic and Land Information	3
2980:425	Land Navigation	3
3350:314	Climatology	3
3350:433	Introduction to Planning	3
3600:120	Introduction to Ethics	_3
		22
Spring Seme	stor	
2235:410	Disaster Relief and Recovery	3
2235:495	Internship: Emergency Management	1-4
	Technical Electives	2-5
	Area Studies & Cultural Diversity	2
	Humanities Requirement	3

 Required Electives — A minimum of 21 credit hours must be completed from the courses listed below. Those specifically identified in the curriculum guide are suggested. Students may select other courses which better support his/her career interests.

18

2235:490	Current Topics in Emergency Management	1-4
2235:497	Independent Study: Emergency Management	1-4
2980:227	Introduction to Geographic and Land Information	3
2980:425	Land Navigation	3
3100:105	Introduction to Ecology	2
3100:104	Introduction to Ecology Lab	1
3250:385	Economics of Natural Resources and the Environment	3
3350:305	Maps and Map Reading	3
3350:340	Cartography	3
3350:314	Climatology	3
3350:320	Economic Geography	3
3350:428	Industrial and Commercial Site Location	3
3350:444	GIS Applications in Geography and Planning	3
3350:447	Introduction to Remote Sensing	3
3370:350	Structural Geology	3
3370:421	Coastal Geology	3
3400:471	American Environmental History	3
3700:370	Public Administration Concepts and Practices	4
3700:412	Global Environment Politics	3
3850:428	The Victim in Society	3
7600:303	Public Relations Writing	3
7600:344	Group Decision Making	3

Bachelor of Arts in Interdisciplinary Studies

This degree meets the needs of students who have an interdisciplinary academic goal. It expands opportunities for non-traditional students to complete their degrees at The University of Akron by allowing them to combine courses from various colleges to design a program. For more information on the program, see page 97.

Engineering Technology

The baccalaureate-level programs in Engineering Technology are intended to fill the widening gap in modern industry between the professional engineer and the engineering technician. The graduate of a program works in close support of engineers, translating conceptual ideas into functioning systems and providing supervisory direction for the implementation of these ideas by technicians and craftsmen.

These programs are designed as transfer programs to permit the qualified engineering technology student to continue education to the baccalaureate degree. During the first and second years, a student follows an associate degree program in the corresponding engineering technology. The third and fourth years provide the additional study required for the baccalaureate degree. Emphasis is placed on advanced training in the student's field of specialization, broadened knowledge of related technical fields, extended general education and basic management training.

The programs are available in automated manufacturing engineering technology, electronic engineering technology, mechanical engineering technology, surveying and mapping and construction engineering technology. It is intended that a graduate will find employment in manufacturing, technical sales and service, application engineering, inspection and testing and the more standardized aspects of engineering design.

The requirements for the Bachelor of Science in Automated Engineering Manufacturing Technology, the Bachelor of Science in Electronic Engineering Technology, the Bachelor of Science in Mechanical Engineering Technology. the Bachelor of Science in Surveying and Mapping, or the Bachelor of Science in Construction Engineering technology are as follows:

- Compliance with the general University requirements for a baccalaureate degree as listed in this Bulletin.
- Compliance with the requirements of the General Education program as outlined in this Bulletin.
- Completion of the requirements for the associate degree in a related engineering technology at The University of Akron or other accredited institution.
- Successful completion of a minimum of 131 credits in BSAMET, 136 credits in BSMET, 139 in the BSEET Program, 137 in the BSSM and 138 in the BSCET, including associate degree program, general education courses, and the following course requirements.

Bachelor of Science in Automated Manufacturing Engineering Technology

The Bachelor of Science in Automated Manufacturing Engineering Technology is an upper level degree program designed to provide the student with additional education beyond an AAS degree. A Manufacturing Engineering Technology associate degree program serves as the first two years. Although an associate manufacturing program is cited, graduates from other related associate programs can frequently enter the program with little or no bridgework.

Third- and fourth-year requirements:		
00000:0000	Humanities Requirement (see adviser)	
XXXX:XXX	Area Studies/Cultural Diversity Requirement (see adviser)	4
2030:154	Elements of Math IV	3
2030:255	Elements of Calculus	3
2040:247	Survey of Basic Economics	3
2820:310	Programming for Technologists	2
2860:270	Survey of Electronics	3
2870:301	Computer Control of Automated Systems	3
2870:311	Facilities Planning	3
2870:441	Advanced Quality Practices	3
2870:448	CNC Programming II	3
2870:470	Simulation of Manufacturing Systems	3
2870:480	Automated Production	3
2870:490	Manufacturing Project	2
2920:310	Economics of Technology	3
2940:210	Computer Aided Drawing I	3
2940:211	Computer Aided Drawing II	3
3300:112	English Composition	3
3400:210	Humanities in the Western Tradition I	4
6500:301	Management: Principles and Concepts	3
6500:330	Principles of Operations Management	3
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	
	Technical Electives	3

Bachelor of Science in

Electronic Engineering Technology Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012: Telephone: 410-347-7700.

For the first- and second-year requirements, see associate degree program in 2860: Electronic Engineering Technology.

Third- and fourth-	year requirements:	
3300:112	English Composition	3
3400:210	Humanities in the Western Tradition (4
XXXX:XXXX	Humanities Requirement (see adviser)	6
10000000000	Area Studies/Cultural Diversity Requirement (see adviser)	4
2030:345	Basic Techniques for Data Analysis	2
2030:356	Calculus for Technical Applications	3
2820:111	Introductory Chemistry	3
2860:350	Advanced Circuit Theory	3
2860:352	Microprocessor Systems	4
2860:354	Advanced Circuit Applications	4
2860:400	Computer Simulations in Technology	3
2860:406	Communication Systems	3

		Creans
2860:453	Control Systems	4
2920:310	Economics of Technology	3
XXXX:XXX	Computer Programming Elective	2
6500:301	Management Principles and Concepts	3
6500:330	Principles of Operations Management	3
7600:106	Effective Oral Communication	3
	Technical Electives	5
Electronic Tec	hnology Electives:	
2860:451	Industrial Electronic Systems	
	or .	
2860:420	Biomedical Electronic Instrumentation	3
	or	
2860:430	Senior Topics in Electronic Technology	

Prior to enrolling in the program and to taking 2860:350 Advanced Circuits, a student must have completed at least 45 credits of a two-year electronic technology associate degree program; maintained a grade-point ratio of 2.00 or higher in major courses (Mathematical Analysis or equivalent, Basic Physics or equivalent, and technical courses in the 2860 or 2900 series or equivalent); and maintained a minimum overall grade-point ratio of 2.00.

Bachelor of Science in Mechanical Engineering Technology

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012: Telephone: 410-347-7700.

For first- and second-year requirements, see associate degree program in mechanical engineering technology.

Third- and fourth-year requirements

trinta ana ioan	in your requirements.	
2030:356	Calculus for Technical Applications	3
2040:247	Survey of Basic Economics	3
2820:310	Programming for Technologists	2
2820:111	Introductory Chemistry	3
2820:112	Introductory and Analytical Chemistry	3
2860:270	Survey of Electronics I	3
2860:271	Survey of Electronics II	3
2880:241	Intro to Quality Assurance	3
2920:310	Economics of Technology	3
2920:344	Dynamics	2
2920:346	Mechanical Design III	4
2920:347	Production Machinery and Processes	3
2920:365	Applied Thermal Energy II	2
2920:370	Plastics Design and Processing	3
2920:402	Mechanical Projects	1
2920:405	Industrial Machine Control	3
2920:470	Plastics Processing and Testing	2
3300:112	English Composition	3
3400:210	Humanities in the Western Tradition I	4
XXXX:XXX	Humanities Requirement (see adviser)	6
XXXXXXXX	Area Studies/Cultural Diversity Requirement (see adviser)	4

Prior to enrolling in the program, a student must have completed at least 45 credits of the two-year program with a grade-point ratio of 2.00 or higher in Math for Engineering Technology, Technical Physics and technical courses (2920 series) in the two-year program; and a minimum overall grade-point ratio of 2.00.

Bachelor of Science in Surveying and Mapping Technology (BSSMT)

The B.S. in Surveying and Mapping Technology degree program is an upper-level degree program designed to provide the student with additional education beyond the AAS degree in Surveying and Construction Engineering Technology. This degree is also designed to meet the formal education requirements for registration as a Professional Surveyor in the State of Ohio.

This upper-level degree program is defined as follows:

- The first two years are completed as an AAS degree in Surveying and Construction Engineering Technology or similarly based program.
- Two of the remaining three years are for the completion of prescribed course work
- The remaining year of the three years is devoted to a cooperative work experience in the Surveying and Mapping field. The student normally enters the coop segment between the junior and senior years.

The B.S. in Surveying and Mapping Technology degree program includes classroom, laboratory and industry experiences which stress the application of established surveying and mapping knowledge.

Requirements for Admission

Applicants for the Surveying and Mapping Technology program must hold an associate degree in Surveying and Construction Engineering Technology from an accredited program or provide an equivalent academic background. The applicant must have a minimum cumulative grade-point average of 2.0 out of a possible 4.0. Applicants with an associate degree in a discipline other than Surveying and Construction Engineering Technology will be required to complete a specific formal set of courses as specified at the time of admission. Final approval for admission is based upon recommendations from the Director of the Surveying and Mapping Program.

Cooperative Work Study Requirement

The required Cooperative Work Study experience of the Surveying and Mapping Technology program consists of 52 weeks of surveying work experience which may begin after the student has completed 34 hours of course work in the Surveying and Mapping program. This program may be satisfied by any one of the following options:

- A. One calendar year.
- B. Three semesters (Summer I and II counts as one semester for the co-op).
- C. Department review of prior or concurrent work experience.

Students having prior or concurrent work experience should submit to the Surveying and Mapping Technology Co-op Review Committee appropriate documentation before signing their program contract. The Surveying and Mapping Technology Co-op Review Committee will determine whether this work experience satisfies the co-op requirement.

Requirements for Graduation

- Compliance with the requirements of the general studies program as outlined in this Bulletin.
- Completion of the requirements for the associate degree in Surveying and Construction Engineering Technology, Surveying Option, at The University Akron or an approved associate degree program. Students transferring from another institution must have their transcripts evaluated to ensure that they have the required number of credits in surveying courses. Those found deficient must complete lower level surveying course work before upper level Surveying and Mapping Technology courses can be taken.
- Successful completion of a minimum of 136 credits in the B.S. in Surveying and Mapping Technology program including the associate degree program, the general studies courses, a one-year co-op, and the following course requirement:

Third and Fifth	Year Requirements	Credits
XXXX:XXXX	Natural Science Elective	2
XXXX:XXXX	Humanities Requirement (see advisor)	3
XXXXXXX	Area Studies/Cultural Diversity Requirements (see advisor)	4
2030:345	Basic Techniques for Data Analysis	2
2030:356	Calculus for Technical Applications	3
2420:103	Essentials of Management Technology	3
2820:310	Programming for Technologists	2
2980:310	Survey Computations & Adjustments	2
2980:315	Boundary Control & Legal Principles	3
2980:355	Computer Applications in Surveying	3
2980:415	Legal Aspects of Surveying	3
2980:421	Subdivision Design	3
2980:422	GPS Surveying	2
2980:430	Surveying Project	3
3300:112	English Composition II	3
3350:405	Geographic Information Systems	3
3350:447	Remote Sensing	3
3400:210	Humanities in the Western Tradition I	4
3600:120	Introduction to Ethics	3
5550:211	First Aid and Cardiopulmonary Resuscitation	2
	Technical Electives	6
	Surveying Electives	6

Bachelor of Science in Construction Engineering Technology

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012: Telephone: (410) 347-7700.

Program Description

The B.S. in Construction Engineering Technology degree program is an upperlevel degree program designed to provide the student with additional education beyond the AAS degree in Surveying and Construction Engineering Technology. This degree is also designed to meet the formal education requirements for registration as a Professional Engineer in the State of Ohio. This upper-level degree program is defined as follows:

- The first two years are completed as an AAS degree in Surveying and Construction Engineering Technology or similarly based program.
- Two of the remaining three years are for the completion of prescribed course work.
- The remaining year of the three years is devoted to a cooperative work experience in the construction field. The student normally enters the co-op segment between the junior and senior years.

The B.S. in Construction Engineering Technology degree program includes classroom, laboratory and industry experiences which prepares students for careers in the construction industry and other allied industries.

Requirements for Admission

Applicants for the Construction Engineering Technology program must hold an associate degree in Surveying and Construction Engineering Technology from an accredited program or provide evidence of an equivalent academic background. The applicant must have a minimum cumulative grade-point average of 2.0 out of a possible 4.0. Applicants with an associate degree in a discipline other than Surveying and Construction Engineering Technology will be required to complete a specific formal set of courses as specified at the time of admission. Final approval for admission is based upon recommendations from the Director of the Construction Engineering Technology Program.

Cooperative Work Study Requirement

The required Cooperative Work Study experience of the Construction Engineering Technology Program consists of 52 weeks of construction work experience which may begin after the student has completed 34 hours of course work in the Construction Engineering Technology Program. This program may be satisfied by any one of the following options.

A. One calendar year.

- B. Three semesters (Summer I and II count as one semester for the co-op).
- C. Department review of prior or concurrent work experience.

Students having prior or concurrent work experience should submit to the Construction Engineering Technology Co op Review Committee appropriate documentation before signing their program contract. The Construction Engineering Technology Co-op Review Committee will determine whether the work experience satisfies the co-op requirement.

Requirements for Graduation

Compliance with the requirements of the general studies program as outlined in this Bulletin.

Completion of the requirements for the associate degree in Surveying and Construction Engineering Technology, Construction Option, at The University of Akron or an approved associate degree program. Students transferring from another institution must have their transcripts evaluated to ensure that they have the required number of credits in Construction Engineering Technically courses. Those found deficient must complete lower level construction engineering technology course work before upper level construction engineering technology courses can be taken.

Successful completion of a minimum of 136 credits in the B.S. in Construction Engineering Technology Program including the associate degree program, the general studies courses, a one-year co-op, and the following course requirements.

Third and Fifth Ye	ar Requirements:	Credits
2030:356	Calculus for Technical Applications	3
2420:243	Survey of Finance	3
2990:352	Field Management and Scheduling	2
2990:354	Foundation Construction Methods	3
2990:355	Computer Applications in Construction	3
2990:356	Safety in Construction	2
2990:358	Advanced Estimating	3
2990:453	Legal Aspects of Construction	2
2990:462	Mechanical Service Systems	3
2990:463	Electrical Service Systems	3
2990:466	Hydraulics	3
2990:468	Construction Management	3
3300:112	English Composition II	3
3370:101	Introductory Physical Geology	4
3400:210	Humanities in the Western Tradition	4
5550:211	First Aid and Cardiopulmonary Resuscitating	2
6200:201	Accounting Concepts and Principles for Business	3
6500:301	Management Principles and Concepts	3
xxxxx	Area Studies and Cultural Diversity	4
XXXX:XXXX	Humanities Requirement	6
	Technical Electives	6

Credits

ASSOCIATE DEGREE PROGRAMS OF INSTRUCTION

Specialized technical programs are offered in the following departments of the college:

Allied Health Technology Associate Studies Business Technology Engineering and Science Technology Public Service Technology

These programs lead to the Associate in Applied Science, Associate in Applied Business (carrying a designation of the specific program), and Associate of Technical Study. In addition, a program in liberal arts leading to the Associate of Arts and a program leading to the Associate of Individualized Studies are offered in the Associate Studies Division.

Requirements for Graduation

Candidates for the associate degree must have the following:

- Complete the required courses listed in the program.
- Complete as a minimum, the number of credits listed for each program.
- Earn a minimum grade-point average of 2.00 in all work taken at The University of Akron.
- · Be recommended by the faculty.

Spend the last semester in residence (earning a minimum of 16 credits) at the University unless excused by the dean of the college.

 Complete other University requirements as in "Requirements for Graduation," Section 3 in this Bulletin.

A student who expects to receive a second associate degree must eam a minimum of 16 credits in residence which have not counted toward the student's first degree.

Allied Health

2740: Medical Assisting Technology

This program provides students with the background to perform receptionist, record keeping and general office duties and to assist physicians in examining patients, performing simple laboratory tests and helping with treatment in physicians' offices, clinics and hospital outpatient departments.

		Credits
2020:121	English	4
2030:130	Introduction to Technical Math	3
2040:240	Human Relations	3
2040:244	Death and Dying	2
2420:211	Basic Accounting I	3
2440:103	Software Fundamentals	2
2540:119	Business English	3
2540:151	Intermediate Word Processing	3
2540:256	Medical Office Procedures	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:125	Medical Assisting I	4
2740:135	Medical Assisting II	4
2740:230	Basic Pharmacology	3
2740:235	Medical Assisting III	4
2740:240	Medical Transcription I	3
2740:245	Medical Assisting IV	4
2740:241	Medical Records	3
2780:106,7	Anatomy and Physiology for Allied Health I, II	6
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
2000 100	OF COLOR	
7600:106	Effective Oral Communication	3

2760: Radiologic Technology

This program prepares graduates to perform radiologic examinations under a physician's direction for diagnosis and treatment of physical diseases and injuries. Although the University is authorized to offer the associate degree in radiologic technology, this degree program is not fully operational on campus at this time but is offered in conjunction with an area hospital school of radiology.

A student who satisfactorily completes an accredited program in radiologic technology at a hospital school having an affiliation with the University may earn the associate degree by completing additional courses at the University. The student will then receive a block of credit for the hospital program that is applicable only to the associate degree in radiologic technology. (Selective Admission) The degree requirements for the student are as follows:

2020:121	English	4
2030:130	Introduction to Technical Mathematics	3
2040:240	Human Relations	3
2740:120	Medical Terminology	3
2780:106	Anatomy and Physiology for Allied Health I	3
	or	
3100:200, 201	Human Anatomy and Physiology I, Lab	4
2780:107	Anatomy and Physiology for Allied Health II	3
	or	
3100:202, 203	Human Anatomy and Physiology II, Lab	4
2760:161	Physical Science for Radiologic Technology I	2
2760:165	Radiographic Principles	3
2760:261	Physical Science for Radiologic Technology II	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Electives	2
	Credits for Hospital Program	41

Radiology schools at the following hospitals are affiliated with the University: Children's Hospital Medical Center of Akron

Applications for admission to these programs should be made directly to the hospital school.

2770: Surgical Assisting Technology *

This program trains people to prepare equipment and assist the physician and other members of the surgical team with patient care and related services in the hospital operating room. (Selective admission.)

Surgical Technologist Option

2020:121	English**	4
2030:130	Introduction to Technical Mathematics**	3
2040:240	Human Relations**	3
2040:242	American Urban Society**	3
2540:118	Exploring the Internet**	2
2740:120	Medical Terminology**	3
2740:121	Study of Disease Processes for Medical Assisting	3
2740:230	Basic Pharmacology**	3
2770:100	Introduction to Surgical Assisting Technology	4
2770:221	Surgical Assisting Procedures I	3
2770:222	Surgical Assisting Procedures II	3
2770:231	Clinical Application I	2
2770:232	Clinical Application II	5
2770:233	Clinical Application III	5
2770:248	Surgical Anatomy I	3
2770:249	Surgical Anatomy II	3
2780:106,107	Anatomy and Physiology for Allied Health I, II**	6
2820:105	Basic Chemistry**	3
3100:130	Principles of Microbiology**	3
7600:106	Effective Oral Communication**	3
	General Elective**	2

2790: Respiratory Care *

This program prepares persons, under the supervision of a physician, to administer medical gases, medications and operate equipment in the medical care of patients with respiratory disorders. Selective admission.

2020:121	English	4
2030:130	Introduction to Technical Mathematics	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2780:106,7	Anatomy and Physiology for Allied Health I, II	6
2790:121	Introduction to Respiratory Care	3
2790:122	Respiratory Patient Care	3
2790:123	Mechanical Ventilators	3
2790:131	Clinical Application I	3
2790:132	Clinical Application II	2
2790:133	Clinical Application III	5
2790:134	Clinical Application IV	5
2790:141	Pharmacology	2
2790:242	Pathology for Respiratory Care	3
2790:201	Anatomy and Physiology of Cardiopulmonary System	3
2790:223	Advanced Respiratory Care	3
2790:224	Pulmonary Rehabilitation and the Respiratory Care Department	2
2820:105	Basic Chemistry	3
3100:130	Principles of Microbiology	3
7600:106	Effective Oral Communication	3

Deadline for application is April 15.

** Must be completed prior to applying for admittance.

Associate Studies

2020: Associate in Arts

Through basic course work and general education, this program is intended to produce a socially intelligent individual, one who understands effective social values as well as scientific facts.

		Creans
2020:121	English	4
3300:112	English Composition II	3
XXXX:XXX	Natural Science Requirement †	8
3400:210	Humanities in the Western Tradition I (see adviser)	4
XXXXXXXX	Humanities Requirement**	6
2040:240	Human Relations ##	3
2040:242	American Urban Society ##	3
	or	
2040:243	Contemporary Global Issues	3
	or	
2040:247	Survey of Basic Economics ##	3
XXXXXXXXX	Area Studies/Cultural Diversity Requirement	2
2040:254	The Black Experience from 1619 to 1877	2
	or	
2040:255	The Black Experience from 1877	2
	or	
2040:256	Diversity in American Society	2
XXXXXXXXX	Mathematics Requirement	3 or 4
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	3
	Electives	21 or 22

2100: Individualized Study

The Associate of Individualized Study (AIS) is designed for students whose educational goals cannot be met through one of the structured associate degree programs. It makes available a program of study which combines course work from various disciplines and focuses on education for individual development.

A student at The University of Akron may apply for the AIS program by meeting with the AIS coordinator and submitting the AIS application. The purpose of this procedure is to determine the appropriateness of the program for the student; and, with the assistance of the AIS chair, to select the areas of study.

Although students assume the responsibility for the selection of their areas of study, they must receive assistance and approval from the Chair of the AIS program. Requirements for graduation from the AIS program are:

- Completion of:
 - ---- course 2100:190 Individualized Study Evaluation;
 - minimum of 40 credits in the AIS program after acceptance to the program;
 - minimum of 20 credits of Community and Technical College courses;
 - minimum of 16 credits in the General Course Category;
 - at least one-half of the courses in the approved areas of concentration at the 200 or above level number equally divided among the selected areas;
 - ---- all other University of Akron requirements for graduation.
 - Areas of concentration will be formed by courses drawn from a minimum of two and a maximum of four instructional areas.
 - AIS degree will not be awarded in any combination of areas of concentration for which The University of Akron offers either an associate or baccalaureate degree.
 - Areas of concentration must serve a coherent educational or occupational goal.
 - Only previous coursework completed with a grade of "C" or higher may be applied toward the AIS degree.

† At least two courses from two different sets; one of which must be a lab course.

** Six credits from two different sets.

See "The University College," Section 4 of this Bulletin for alternate course options.

Business Technology

2280: Hospitality Management

Provides the general knowledge and skills necessary for success within the multifaceted hospitality industry.

Options	· · · ·	
Culinary Arts		Credits
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2280:101	Introduction to Hospitality Safety and Sanitation	3
2280.120	Fundamentals of Food Preparation I	4
2280:122	Fundamentals of Food Preparation II	4
2280:160	Wine and Beverage Service	3
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	3
2280:237	Internship Restaurant Onemtions and Management	1
2280.233	Menu Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2280:261	Baking and Classical Desserts	4
2420:104	Introduction to Business in the Global Environment	3
- 2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I Business English	3
2540:143	Microsoft Word Beginning	2
7400:133	Nutrition Fundamentals	3
7600:105	Introduction to Public Speaking	3
7000 400	or F// when Oast Communication	2
7600:106 Dectouront Mo		3
2020-121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation i	4
2280:122	Wine and Reverage Service	3
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	3
2280:233	Restaurant Operations and Management	4
2280:237	Internship	1
2280:240	Systems Management and Personnel	3
2280:243	Menu Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2520:212	Principles of Sales Business English	3
2540.119	Business Software Applications	4
7600:105	Introduction to Public Speaking	3
	or	2
7600:106	Effective Oral Communication	3
Hotel/Motel N	Aanagement Feelieb	4
2020:121	Lugion Human Relations	3
2040:247	Survey of Basic Economics	3
2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:160	Vvine and Beverage Service	3
2280:232	Restaurant Operations and Management	4
2280:237	Internship	1
2280:240	Systems Management and Personnel	3
2280:245	Menu, Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2280:268	nevenue Centers Hotel Catering and Marketing	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting 1	3
2520:103	Principles of Advertising	3
2540:119	Business English Business Software Applications	. 3 4
2540:270	Introduction to Public Speaking	3
7800-108	or Effortive Oral Communication	з
/000.100		5

lotel Marke	ting and Sales	Credits
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:232	Dining Room Service and Training	. 3
2280:233	Restaurant Operations and Management	4
2280:237	Internship	1
2280:243	Food Equipment and Plant Operations	3
2280:256	Hospitality Law	3
2280:268	Revenue Centers	3
2280:278	Hotel Catering and Marketing	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2520:103	Principles of Advertising	3
2520:202	Retailing Fundamentals	3
2520:206	Retail Promotion and Advertising	3
2520:212	Principles of Sales	3
2540:143	Microsoft Word Beginning	2
2540:263	Business Communications	3
2540:270	Business Software Applications	4
2540:271	Desktop Publishing	3
	or	
2540:273	Computer-based Graphic Presentations	3
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	3

2420: Business Management Technology®

This program provides comprehensive training in varied business activities which prepare for beginning management or supervisory-level positions in business, industry or self-employed management.

Options

General		
2020:121	English	4
2030:151	Elements of Math I	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:125	Essentials to Personal Finance	3
2420:170	Applied Mathematics for Business	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting I	2
2420:213	Essentials of Management Accounting	3
2420:243	Survey in Finance	3
2420:250	Problems in Business Management	3
2420:280	Essentials of Business Law	3
2520:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
	or	
2520:212	Principles of Sales	3
2540:119	Business English	3
2540:263	Business Communications	3
2540:270	Business Software Applications	4
2560:110	Principles of Transportation	3
7600:105	Introduction to Public Speaking	3
	or	•
7600:106	Effective Oral Communication	3
	Electives	1
Accounting		
2020:121	English	4
2030:151	Elements of Math I	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2520:101	Essentials of Marketing Technology	3
2420.202	Elements of Human Resource Management	3
2420:103	Essentials of Management Technology	3
2420.104	Introduction to Business in the Global Environment	3
2420:125	Essentials to Personal Finance	3
2420:170	Applied Mathematics for Business	3
2420:211.12	Basic Accounting I. II	5
2420:213	Essentials of Management Accounting	3
(A) Students ent	ering the Business Management program must demonstrate a fi	ndamentai

(*) Students entering the Business Management program must demonstrate a fundamental knowledge of computers by examination or take the following bridge courses prior to enrolling in 2420 courses: 2440:101, 102, 103 and 2540:140.

* Courses not transferable to College of Business Administration.

		Credits
2420:215	Computer Applications for Accounting Cycles	3
2420:216	Survey of Cost Accounting*	3
2420:217	Survey of Taxation *	4
2420:219	Business Accounting Project	3
2420:243	Survey in Finance	3
2420:245	Business Management Accounting Internship	3
	or	
2420:220	Applied Accounting*	3
2420:280	Essentials of Business Law	3
2540:119	Business English	3
2540:270	Business Software Applications	4
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	3
Small Busin	ess Management	
2020:121	English	4
2030:151	Elements of Math I	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:117	Small Business Development	3
2420:118	Financial Management and Planning for the Small Business	4
2420:125	Essentials to Personal Finance	3
2420:170	Applied Mathematics for Business	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	2
2420:217	Survey of Taxation	3
2420:227	Entrepreneurship Projects	4
2420:280	Essentials of Business Law	3
2520:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
	or	
2520:212	Principles of Sales	3
2540:119	Business English	3
2540:263	Business Communications	3
2540:270	Business Software Applications	4
7600:105	Introduction to Public Speaking	3
7000.000	or Effective Oral Oceanoration	
7600:106	Effective Ural Communication	3

2440: Computer Information Systems

This program prepares graduates to enter the job market as computer programmers for business and industry. Emphasis of the curriculum is on programming computers to solve business problems.

 Students entering the Computer Information Systems program must demonstrate a fundamental knowledge of computers by examination or take the following bridge courses prior to enrolling in the program.

Bridge Courses

2440:101	Fundamentals of Computer Concepts	1
2440:102	Introduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Non-Majors	2

Options

Programmin	ag Specialist	
2020:121	English	4
2030:151	Elements of Math I	2
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211,12	Basic Accounting I, II	5
2440:121	Introduction to Logic/Programming	3
2440:140	Internet Tools	3
2440:145	Operating Systems	3
2440:160	Java Programming	3
2440:170	Visual BASIC	3
2440:180	Database Concepts	3
2440:210	Client/Server Programming	3
2440:234	Advenced Business Programming	3
2440:241	Systems Analysis and Design	3
2440:251	Computer Applications Project	3
2440:256	C++ Programming	3
2540:119	Business English	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking or	. 3
7600:106	Effective Oral Communication	3
Programming Specialist

with Pre-Busin	ness Administration Option	Credits
2020:121	English	4
2030:151	Elements of Math I	2
2040:240	Human Relations	3
2420:104	Introduction to Business in the Global Environment	3
2440:121	Introduction to Logic/Programming	3
2440:140	Internet Tools	3
2440:145	Operating Systems	3
2440:160	JAVA Programming	3
2440:170	Visual BASIC	3
2440:180	Database Concepts	3
2440:210	Client/Server Programming	3
2440:234	Advanced Business Programming	3
2440:241	Systems Analysis and Design	3
2440:251	Computer Applications Projects	3
2440:256	C++ Programming	3
2540:119	Business English	3
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
3450:141	Algebra with Business Applications	3
	or	
3450:145	College Algebra	4
0.000 0.00	or Oh ha in bail a trait	-
3450:210	Calculus with Business Applications	3
5540:xxx	Physical Education	1
6200:201,2	Accounting I, II	6
7600:105	Introduction to Public Speaking	3
7600-106	or Effective Oral Communication	3
		5
Microcompute	r Specialist	
2020:121	English	4
2030:151	Elements of Math I	2
2030(161	Math for Modern Lechhology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420.104	Pasia Accounting 1.1	5
2420.211,12	Introduction to Logic/Programming	2
2440:140	Internet Toole	3
2440.140		3
2440:170		3
2440:175	Microcommuter Application Support	3
2440:180	Database Concents	3
2440:210	Client/Server Programming	3
2440:241	Systems Analysis and Design	3
2440:247	Hardware Support**	3
2440:257	Microcomputer Projects	3
2440:267	Microcomputer Database Applications	3
2440:268	Network Concepts**	3
2540:119	Business English	3
7600:105	Introduction to Public Speaking	3
7000 400	or Frank on the second second	
7600:106	Effective Oral Communication	3
Microcompute	r Specialist with Pre-Business Administration O	ption
2020:121	English	4
2030:151	Elements of Math I	2
2040:240	Human Relations	3
2420:104	Introduction to Business in the Global Environment	3
2440:121	Introduction to Logic/Programming	3
2440:140	Internet Tools	3
2440:145	Operating Systems	3
2440:170	Visual BASIC	3
2440:175	Microcomputer Application Support	3
2440:180	Database Concepts	3
2440:210	Client/Server Programming	3
2440:241	Systems Analysis and Design	3
2440:247	Haroware Support."	3
2440.257	Microcomputer Projects	3
2440.207	Network Concents**	3
2540.200	Rusiness English	3
3250.200	Principles of Microsconomics	3
3250-201	Principles of Macroeconomics	3
3450:141	Algebra with Business Applications	3
	01	5
3450:145	College Algebra	4
	or	
3450:210	Celculus with Business Applications	3
5540:xxx	Physical Education	1
6200:201,2	Accounting I, II	6

7600:105 Introduction to Public Speaking 3 or 7600:106 Effective Oral Communication 3 **Computer Maintenance and Networking** 2020:121 English 4 2030:151 Elements of Math I 2 and 2030:152 Elements of Math II 2 or 2030:161 Math for Modern Technology 4 2040:222 Technical Report Writing 3 2040:240 Human Relations 3 2040:247 Survey of Basic Economics 3 2420:103 Essentials of Management Technology 3 2420 104 Introduction to Business in the Global Environment 3 2420:211 Basic Accounting | 3 2420:212 Basic Accounting II 2 2440:145 Operating Systems 3 2440:268 Network Concepts 2 2440:280 Microprocessor Service Practicum/Seminar 3 2540:270 Business Software Applications 4 2600:240 Microsoft Networking I 3 or 2440:201 Cisco Networking I 4 2600:242 Microsoft Networking II 3 or 2440:202 Cisco Networking II 4 2600:244 Microsoft Networking III 3 or 2440:203 Cisco Networking III 4 2860:110 Basic Electricity and Electronics 4 2860:136 **Digital Fundamentals** 2 2860:206 Personal Computer Servicing 4 2860:217 Survey of Digital Electronics 4 7600:105 Introduction to Public Speaking 3 or

Credits

3

7600:106 Effective Oral Communication

Cisco Networking classes offered at main campus only. Microsoft Networking classes offered at Wayne Campus only.

2520: Marketing and Sales Technology

This program equips graduates to fill entry-level positions in distributive business areas including retailing, industrial distribution and fashion.

Students must pass department placement exams or complete Bridge Courses as needed as a result of the department placement exam before enrolling in Marketing and Sales courses 2520.

Bridge Courses

440:101	Fundamental Computer Concepts	1
440:102	Introduction to Windows	1
440:103	Software Fundamentals	2
540:140	Keyboarding for Nonmajors	2

Options

Advertising		
2020:121	English	4
2020:224	Writing for Advertising	4
2030:151	Elements of Math I	2
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
	or	
3250:200	Principles of Microeconomics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting	3
2420:280	Essentials of Business Law	3
2520:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
2520:202	Retailing Fundamentals	3
2520:204	Services Marketing	3
2520:206	Retail Promotion and Advertising	3
2520:212	Principles of Sales	3
2520:221	Adventising Campaign	3
2520:240	Marketing Internship	3
2540:263	Business Communications	3
	or	
2020:222	Technical Report Writing	3
2540:270	Business Software Applications	- 4
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3

**Student must be admitted to program or obtain permission from program director.

2540: Office Administration

Preparing students for the different but often overlapping fields of administrative assisting, secretarial, word processing, information management, or clerical work, this program is based on personal career objectives. Students choose from program options that prepare them for positions in administrative assistant work; medical, legal, or international secretarial; or office/information management.**

Options

2540:143

2540:151

2540:243

2540:253

2540:263

2540:270

2540:271

2540:273

2540:281

3

3

3

3

3

4

1

3

Credits 4

4

3

3

3 3

3

3	Medical Sec	retarial	Credits
3	2020:121	English	4
3	2040:240	Human Relations	3
3	2420:104	Introduction to Business in a Global Environment	3
3	2420:170	Applied Mathematics for Business	3
3	2420:211	Basic Accounting I	3
3	2540:119	Business English	3
3	2540:129	Information/Records Management	3
	2540:143	Microsoft Word Beginning	2
3	2540:151	Intermediate Word Processing	3
4	2540:243	Internship	3
1	2540:253	Advanced Word Processing	3
3	2540:256	Medical Office Procedures	3
3	2540:263	Business Communications	3
3	2540:270	Business Software Applications	4
3	2740:120	Medical Terminology	3
3	2740:121	Study of Disease Processes	3
	2740:125	Medical Assisting I	4
4	2740:240	Medical Transcription I	3
4	2740:241	Medical Records	3
4	5550:211	First Aid and CPR	2
3	7600:105	Introduction to Public Speaking	3
3		Or	-
3	7600:106	Effective Oral Communications	
2	,	Flectives	1
3		LIBOLINGS	
3	Internationa	Secretarial	
3	2020:121	English	4
3 2	2040:240	Human Relations	3
3	2040:247	Survey of Basic Economics	3
3	2420:104	Introduction to Business in the Global Environment	3
3	2420:170	Applied Mathematics for Business	3
3	2420:211	Basic Accounting I	3
3	2540:119	Business English	3
3	2540:121	Introduction to Office Procedures	3
3	2540:129	Information/Records Management	3
3	2540:143	Microsoft Word, Beginning	2
3	2540:151	Intermediate Word Processing	3
3	2540:243	Internship	3
•	2540:253	Advanced Word Processing	3
3	2540:263	Business Communications	3
4	2540:270	Business Software Applications	4
1	2540:281	Editing/Proofreading/Transcription	3
3	3500000	Beginning Foreign Language I and If	8
	3500:xxx	Intermediate Foreign Language I and II	6
4	7600:105	Introduction to Public Speaking	3
4	7600-106	Of Effective Oral Communication	2
4	7000:100	Effective Oral Communication	3
3	Administrati	ve Assistant	
3	Preparing stud	ents for an office position as an administrative ass	istant. Associate
	degree course	s may be applied toward a four-year business edu	cation or techni-
3	cal education of	legree.	
3			
3	2020:121	English	4
3	2040:240	Human Relations	3
3	2040:247	Survey of Basic Economics	3
3	2420:104	Introduction to Business in the Global Environment	3
3	2420:170	Applied Mathematics for Business	3
3	2420:211	Basic Accounting I	3
3	2540:119	Business English	3
3	2540:121	Introduction to Office Procedures	3
3	2540:129	Information/Records Management	3

2020:121	English
2030:161	Math for Modern Technology
2040:240	Human Relations
2040:247	Survey of Basic Economics
	or
3250:200	Principles of Microeconomics
2420:104	Introduction to Business in the Global Environment
2420:211	Basic Accounting I
2420.280	Essentials of Business Law
2520.101	Essentials of Marketing Technology
2520:103	Principles of Advertising
2520.100	Retailing Fundamentals
2520.202	Services Marketing
2520.204	Retail Promotion and Advertising
2520.200	Dringinlas of Salas
2520.212	Principles of Sales
2040:203	Business Communications
0000.000	
2020:222	Technical Report vvriting
2540:270	Business Software Applications
5540:xxx	Physical Education
7400:139	The Fasion and Furnishings Industry
7400:219	Clothing Communications
7400:221	Evaluation of Apparel and Household Textiles
7400:225	Textiles
7600:105	Introduction to Public Speaking
Retailing	
2020-121	English
2020.121	
2020.224	Virtung tot Advertising
2030:161	Math for Modern Technology
2040:240	Human Helations
2040:247	Survey of Basic Economics
	or
3250:200	Principles of Microeconomics
2420:104	Introduction to Business in the Global Environment
2420:211	Basic Accounting I
2420:280	Essentials of Business Law
2520:101	Essentials of Marketing Technology
2520:103	Principles of Advertising
2520:202	Retailing Fundamentals
2520:204	Services Marketing
2520:206	Retail Promotion and Advertising
2520:212	Principles of Sales
2520:221	Advertising Campaign
2520:240	Marketing Internship
2520:254	Sales Management Technology
2540:263	Business Communications
	or
2020:222	Technical Report Writing
2540:270	Business Software Applications
5540 200	Physical Education
7600:105	Introduction to Public Sneaking
-	
Sales	
2020:121	English
2020:224	Writing for Advertising
2030:161	Math for Modern Technology
2040:240	Human Relations
2040:247	Survey of Basic Economics
	or
3250:200	Principles of Microeconomics
2420:104	Introduction to Business in the Global Environment
2420:211	Basic Accounting I
2420:243	Survey in Finance
2420:280	Essentials of Business Law
2520:101	Essentials of Marketing Technology
2520:103	Principles of Adventising
2520:202	Retailing Fundamentals
2520.204	Services Marketing
2520.206	Betail Promotion and Advertising
2520.200	Principles of Sales
2520.212	Advertising Campaign
2020.221	Modesting Internation
2520.240	Salaa Maaaaamaat Tachaalaa (
2020.204	Sales Management rechnology
2040.203	Dusiness Communications

Fashion

2020:222

2540:270

5540:xxx

7600:105

Technical Report Writing

Physical Education

Business Software Applications

Introduction to Public Speaking

** Associate degree courses may be applied toward a four-year business education or technical education degree.

2

3

3

3

3

4

3

3

3

Microsoft Word Beginning

Advanced Word Processing

Business Communications

Desktop Publishing

Business Software Applications

Editing/Proofreading/Transcription

Computer-Based Graphic Presentations

Internship

Intermediate Word Processing

74 The University of Akron 2001-2002

7600:105	Introduction to Public Speaking	Creans 3
7600:106	or Effective Oral Communication	3
	Electives	4
Suggested Ele	actives:	
2040:241	Technology and Human Values	3
2040:242	American Urban Society	3
2040:244	Death and Dying	2
2040:251	Human Behavior at Work	3
2040:254	The Black Experience from 1619 to 1877	2
2540:120	Keyboarding Skill Development	1
2540:289	Career Development for Office Professionals	3

2560: Transportation

This program is aimed at developing technical knowledge and skills in the area of transportation management.

General		
2020:121	English	4
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law	3
2440:103	Software Fundamentals	2
2520:101	Essentials of Marketing Technology	3
2540:119	Business English	3
2540:263	Business Communications	3
2560:110	Principles of Transportation	3
2560:115	Motor Transportation	3
2560:116	Air Transportation	2
2560:117	Water Transportation	2
2560:118	Transportation Rate Systems	3
2560:221	Traffic and Distribution Management	3
2560:222	Microcomputer Applications in Transportation	3
2560:224	Transportation Regulation	3
2560:227	Transportation of Hazardous Materials and Wastes	2
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	3

Engineering and Science Technology

2830: Electromechanical Service Technology

This program is designed to prepare technicians to repair and maintain both the electrical and mechanical subsystems of manufacturing equipment.

2020:121	English	4
2030:151	Elements of Mathematics	2
2030:152	Elements of Mathematics II	2
2040:240	Human Relations	3
2440:103	Software Fundamentals	2
2820:110	Physical Science for Technicians	3
2830:110	Electromechanical Devices	4
2830:210	Motion Control I	4
2830:220	Motion Control II	3
2830:230	Machine and Process Control	4
2830:240	Industrial Computer Control	3
2830:250	Programmable Controllers	3
2830:260	Electrical Power and Wiring	3
2830:270	Troubleshooting and Repair Practices	3
2860:110	Basic Electricity and Electronics	4
2880:110	Manufacturing Processes	2
2920:130	Introduction to Hydraulics and Pneumatics	3
2940:140	Survey of Engineering Technology	3
5540:xxx	Physical Education	1
	General Electives	8

2840: Polymer Technology

This program will prepare graduates for employment in the polymer processing industry. The student will learn the basic properties of plastic materials, how these properties are measured in a laboratory, and the various manufacturing procedures used to process plastics into finished products.

		Credits
2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Math IV	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2820: 100	Introduction to Engineering Technology	2
2820:111	Introductory Chemistry	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:164	Technical Physics: Heat and Light	2
2840:111	Polymer Technology I	3
2840:112	Polymer Technology II	3
2840:202	Instrumental Methods	3
2840:211	Polymer Technology III	3
2840:220	Case Studies in Polymer Design and Processing	2
2840:260	Compounding Methods	2
2840:281	Polymer Project	2
2860:110	Basic Electricity and Electronics	4
2880:100	Basic Principles of Manufacturing	4
2880:151	Industrial Safety and Environmental Protection	2
2880:241	Introduction to Quality Assurance	3
2920:130	Introduction to Hydraulics and Pneumatics	3
2940:180	Introduction to Computer Aided Drafting	1
	General Electives	3

2860: Electronic Engineering Technology

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012: Telephone: 410-347-7700. This program prepares individuals for work as technicians in developing, manufacturing, installing, testing and maintaining electronic equipment and systems.

2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Mathematics IV	2
2030:255	Elements of Calculus	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:164	Technical Physics: Heat & Light	2
2860:120	DC Circuits	4
2860:122	AC Circuits	3
2860:123	Electronic Devices	3
2860:136	Digital Fundamentals	2
2860:225	Electronic Device Applications	3
2860:237	Digital Circuits	4
2860:238	Microprocessor Applications	4
2860:242	Machinery and Controls	3
2860:251	Communication Circuits	3
2860:260	Electronic Project	2
2870:301	Computer Control of Automated Systems	3
2940:210	Computer Aided Drawing 1	3
5540:xxx	Physical Education	1

2880: Manufacturing Engineering Technology

Through the study of basic technical subjects and through concentration on work measurement, manufacturing computer applications, quality control, robotics, manufacturing work cells, and MRPII, this program educates the student in the areas of analysis, design and management of the resources, facilities and people involved in modern manufacturing.

Options

Computer-A	Vided Manufacturing Option	Credits
2020:121	English	4
2020:222	Technical Report Writing	3
2030:151	Elements of Mathematics I*	2
2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III*	2
2040:240	Human Relations	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:163	Technical Physics: Electricity and Magnetism*	2
2870:348	CNC Programming I*	3
2880:100	Basic Principles of Manufacturing Management*	4
2880:110	Manufacturing Processes*	2
2880:130	Work Measurement and Cost Estimating	3
2880:151	Industrial Safety and Environmental Protection*	2
2880:201	Robotics and Automated Manufacturing	3
2880:211	Computenzed Manufacturing Control	3
2880:232	Labor-Management Relations	3
2880:241	Introduction to Quality Assurance	· 3
2920:130	Introduction to Hydraulics and Pneumatics*	3
2940:121	lectnical Drawing I"	3
2940:180	Introduction to CAD*	
534U:XXX	Toshoisel Electrice	2
	General Electives	3
	General Electives	0
Industrial S	upervision Option	
2020:121	English	4
2020:222	Technical Report Writing	3
2030:151	Elements of Mathematics I*	2
2030:152	Elements of Mathematics II	2
2040:247	Survey of Basic Economics	3
2040:251	Human Benavior at Work	3
2420:103	Essentials of Human Resource Management	3
2420.202	Basis Assounting I	3
2420.211	Basic Accounting I	3
2420.212	Essentials of Business Law	3
2920.200	Software Applications for Technology	3
2880:100	Basic Principles of Manufacturing Management*	
2880:110	Manufacturing Processes	2
2880:130	Work Measurement and Cost Estimating	3
2880:151	Industrial Safety and Environmental Protection*	2
2880:201	Robotics and Automated Manufacturing	3
2880:211	Computerized Manufacturing Control	3
2880:232	Labor Management Relations	3
2880:241	Introduction to Quality Assurance	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Electives	4
	Technical Electives	3
General Elec	tives (four credits required from following):	
2040:240	Human Relations	3
2040:241	Technology and Human Values	2
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2040:254	The Black Experience from 1619 to 1877	2
Technical Electiv	ves (three credits required from following):	
2420:170	Business Mathematics	3
2420:211	Basic Accounting (3

echnical Electres (three credits required from following):		
2420:170	Business Mathematics	
2420:211	Basic Accounting I	
2820:164	Technical Physics: Heat & Light	
3450:138	Mathematics of Finance	

2920: Mechanical Engineering Technology

2 1

Ger

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012: Telephone: 410-347-7700.

This program prepares individuals to work as technicians in developing, designing, manufacturing, testing and servicing mechanical equipment and systems.

		Credits
2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Mathematics IV	3
2030:255	Elements of Calculus	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2820:131	Software Applications	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:163	Technical Physics: Electricity and Magnetism	2
2820:164	Technical Physics: Heat and Light	2
2920:101	Introduction to Mechanical Design	3
2920:142	Introduction to Material Technology	3
2920:243	Kinematics	2
2920:245	Mechanical Design II	5
2920:247	Technology of Machine Tools	3
2920:249	Applied Thermal Energy	2
2920:251	Fluid Power	2
2920:252	Thermo-Fluids Laboratory	1
2940:121	Technical Drawing I	3
2940:210	Computer Aided Drawing I	3
2990:125	Statics	3
2990:241	Strength of Materials	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3

2940: Drafting and Computer Drafting Technology

This program prepares an individual to work as a drafter by providing in-depth knowledge of drafting principles as well as computer-aided drafting. The program is designed to prepare the student to work in the major fields of technology, including electrical, architectural, mechanical, manufacturing, surveying, and structural technology. It will educate the individual to compile detailed drawings based on rough sketches, specifications and calculations made by engineers, architects and designers. This daytime program is especially suitable for those who have a special interest or talent for spatial visualization, but do not want an extensive coverage of advanced mathematics or physics.

2020:121	English	4
2020:222	Technical Report Writing	3
2030:151	Elements of Mathematics	2
2030:152	Elements of Mathematics II	2
2040:240	Human Relations	3
2820:131	Software Applications for Technology	1
2870:348	CNC Programming I	3
2880:110	Manufacturing Processes	2
2940:121	Technical Drawing I	3
2940:122	Technical Drawing II	3
2940:150	Drafting Design Problems	2
2940:170	Surveying Drafting	3
2940:200	Advanced Drafting	3
2940:210	Computer Aided Drawing I	3
2940:211	Computer Aided Drawing II	3
2940:230	Mechanical Systems Drafting	3
2940:240	Electrical and Electronic Drafting	3
2940:250	Architectural Drafting	3
2940:260	Drafting Technology Project	3
2980:223	Fundamentals of Map Production	3
2990:231	Building Construction	2
2990:250	Structural Drawing	2
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Electives	5
neral Electives:		
2030:153	Elements of Mathematics III	2
2030:154	Elements of Math IV	3
2040:241	Technology and Human Values	2
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2040:251	Human Behavior at Work	3
2040:254	The Black Experience from 1619 to 1877	2

2

Students completing NTMA Journeyman's Machinist Program receives bypass credit for these courses. Those not completing the entire program or who have completed the program prior to 1/1/96, see an advisor.

2980: Surveying and Construction Engineering Technology

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - Telephone: 410-347-7700,

Designed to provide a foundation in mathematics, physics, technical drawing, and communication skills, this program allows increased application of these areas in order to build an in-depth background in either construction or surveying.

Options

Construction		Credits
2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of mathematics il	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Mathematics IV	3
2030:255	Elements of Calculus	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:163	Technical Physics: Electricity and Magnetism	
	or	-
2820:164	Technical Physics: Heat and Light	2
2940:121	Technical Drawing	3
2940:210	Computer Aided Drawing I	3
2980:101	Basic Surveying I	2
2980:102	Basic Surveying It	2
2980:123	Surveying Field Practice	2
2980:222	Construction Surveying	3
2990:125	Statics	
2990:231	Building Construction	2
2990:234	Elements of Structures	3
2990:237	Materials Testing I	2
2990:238	Materials Testing II	2
2990:241	Strength of Materials	3
2990:245	Cost Analysis and Estimating	3
2990:250	Structural Dratting	2
7600:105	Introduction to Public speaking	3
7000-100	Of Effective Oral Communications	2
7600:106	Effective Oral Communications	3
Surveying		
2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Mathematics IV	3
2030:255	Elements of Calculus	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:163	Technical Physics: Electricity and Magnetism	
	or	
2820:164	Technical Physics: Heat and Light	2
2940:170	Surveying Drafting	3
2940:210	Computer Aided Drawing I	3
2980:101	Basic Surveying I	2
2980:102	Basic Surveying II	2
2980:123	Surveying Held Practice	2
2980:222	Construction Surveying	3
2980:223	Fundamentals of Map Production	3
2900:225	Auvaliced Sulveying	3
2980:227	nuo, lo deographic et Land Into, systems Roundany Supraving	3
2980.228	Supering Station	
2980,000	Station	3
2990:120	Natoriale Testing I	3
2550:237	Introduction to Public Speaking	2
/000:105	or	3
7600-106	Effective Orel Communications	3
/000.100		5

Associate of Technical Studies

The Associate of Technical Studies (ATS) program is available for adult students whose educational objectives and interests cannot be met through one of the formal associate degree programs.

Requirements

- Completion of the ATS application, including the selection of a minimum of one and a maximum of three major areas of study with a reasonable selection of courses from each area.
- Approval of the ATS application by the ATS coordinator, the faculty in the appropriate division(s), the ATS Committee, and the dean of the Community and Technical College.
- Application toward the degree of only that transfer course category and 14 semester credits in the basic course category.
- Completion of at least one half of the technical courses taken at The University
 of Akron in the approved area(s) of study at the 200 level or higher, to be
 equally divided among the selection areas, where applicable.
- Completion of a total of 64 semester credits with a grade-point average of 2.0.
- Completion of all other graduation requirements of The University of Akron.

Public Service Technology

2200: Early Childhood Development

This program prepares individuals for employment as child care workers, filling a variety of staff positions in either a day-care center, nursery school or Head Start program with infants, toddlers, and pre-Kindergarten children. Graduates can own their own center, run a family day care home, or be a center director.

		Credits
2020:121	English	4
2030:130	Introduction to Technical Math	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2200:245	Infant/Toddler Day-Care Programs	3
2200:250	Observing and Recording Children's Behavior	3
2200:246	Multicultural Issues in Child Care	3
2200:247	Diversity in Early Childhood Literacy	3
2200:295	Early Childhood Practicum 11	5
5200:360	Teaching in the Early Childhood Center	2
5200:370	Early Childhood Center Laboratory	2
5540:xxx	Physical Education	1
5550:211	First Aid	2
5610:450	Special Education Programming: Early Childhood	3
7400:132	Early Childhood Nutrition	2
7400:265	Child Development	3
7400:270	Theory and Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	4
7400:448	Before and After School Care	2
7400:460	Organization and Supervision of Child Care Centers	3
7600:106	Effective Oral Communication	3
	Humanities Elective *	2-4
	General Elective	0-2

Pre-Kindergarten Associate Certification is available. See program adviser for other requirements for certification.

2220: Criminal Justice Technology

This program provides the student with a professional perspective of criminal justice through skills and technical functions and offers courses designed to develop a better understanding of our rapidly changing society.

2020:121	English	4
2020:222	Technical Report Writing	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2220:100	Introduction to Criminal Justice	3 -
2220:102	Criminal Law for Police	3
2220:104	Evidence and Criminal Legal Process	3
2220:106	Juvenile Justice Process	3
2220:240	Vice and Organized Crime	3
2220:250	Criminal Case Management	6
2220:296	Current Topics in Criminal Justice ¹¹	6
2220:298	Applied Ethics in Criminal Justice	3
2820:105	Basic Chemistry	3
3850:100	Introduction to Sociology	4

* See department for list of humanities options.

11 Changes by subject each semester. Must be taken twice for a total of six credits.

		Credits
5540:xxx	Physical Education **	1
7600:106	Effective Oral Communication	3
2220:xxx	Technical Electives***	6
Security Ad	ministration	
2020:121	English	4
2020:222	Technical Report Writing	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2220:101	Introduction to Proprietary Safety	4
2220:102	Criminal Law for Police	3
2220:104	Evidence and Criminal Legal Procedure	3
2220:240	Vice and Organized Crime	3
2220:250	Criminal Case Management	6
2220:296	Current Topics in Criminal Justice ¹¹	1-3
2230:204	Fire Hazards Recognition	3
2230:250	Hazardous Materials	4
2230:257	Fire and Safety Issues for Business and Industry	3
2420:104	Introduction to Business in the Global Environment	3
2440:103	Software Fundamentals	2
2820:105	Basic Chemistry	3
5540:xxx	Physical Education **	1
7600:106	Effective Oral Communication	3
2220:xxx	Technical Elective***	3

A student with a particular interest in corrections may vary the program of study by making the following substitutions: 3850:330 Criminology, three credits; 2220:270 Community Corrections, three credits; or 2260:278 Techniques of Community Work, four credits; and 3850:431 Corrections, three credits, for courses: 2220:250 Criminal Case Management, six credits; and 2220:240 Vice and Organized Crime, three credits. Students must complete electives to equal the 64-credit program requirement.

2230: Fire Protection Technology

This program prepares persons to serve governmental, industrial and other fire protection agencies in fire fighting and prevention, property protection and in handling emergency situations.

2020:121	English	4
2020:222	Technical Report Writing	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2230:100	Introduction to Fire Protection	3
2230:102	Fire Safety in Building Design and Construction	3
2230:104	Fire Investigation Methods	4
2230:204	Fire Hazards Recognition	3
2230:202	Incident Management for Emergency Responders	4
2230:205	Fire Detection and Suppression Systems I	3
2230:206	Fire Detection and Suppression Systems II	3
2230:250	Hazardous Materials	4
2230:254	Fire Codes and Standards	3
2230:257	Fire and Safety Issues for Business and Industry	3
2230:280	Fire Service Administration	4
2820:105	Basic Chemistry	3
2940:180	Introduction to Computer Aided Drafting	1
7600:105	Introduction to Public Speaking	3
2230:xxx	Technical Electives	4
Recommended To	echnical Electives:	
2230:153	Principles of Fire Protection and Life Salety	3
2230:290	Special Topics in Fire Protection	1-2
2230:294	Advanced Fire Investigation Methods	3
2230:295	Fire Protection Internship	4
2230:297	Independent Study	1-4

2260: Community Services Technology

This program prepares individuals for employment supportive of social work and of other professional community service personnel providing social services for individuals, families, groups and communities.

General Program		Credits
2020:121	English	4
2020:222	Technical Report Writing	3
	or	
3300:112	English Composition II	3
	or	
2540:119	Business English	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2040:254	The Black Experience from 1619 to 1877	2
2260:100	Introduction to Community Services	3
2260:150	Introduction to Gerontological Services	3
2260:240	Pharmacology of Psychoactive Drugs	3
2260:260	Introduction to Addiction	3
2260:262	Basic Helping Skills	4
2260:277	Case Management in Community Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community and Social Services	5
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
7750:276	Introduction to Social Welfare	4
2260:xxx	Technical electives	6
2260:xxx	General electives	4
2440 or 2450	Computer electives	4

Options

Addictio

Addiction S	ervices	
2260:240	Pharmacology of Psychoactive Drugs	3
2260:260	Introduction to Addiction	3
2260:261	Addiction Treatment	4
2260:263	Group Principles in Addiction	4
Select three of	credits from the following:	
2260:264	Addiction and the Family	, 3
2260:265	Women and Addiction	3
2260:267	Addiction Assessment and Treatment Planning	3
2260:268	Dual Diagnosis	3
2260:269	Criminal Justice and Addiction	3
2260:270	Relapse Prevention	2
2260:271	Non-chemical Addictions and Dependencies	2
Gerontology	/	
1850:450	Interdisciplinary Seminar in Gerontology	2
1850:486	Retirement Specialist	2
2040:244	Death and Dying	2
7400:390	Family Relationships in Middle and Later Years	3
	Gerontology Electives	4
0	P	
Social Servi		
2020:121		4
2030:161	Math for Modern Technology	4
2040:240	Human Helations	3
2040:247	Survey of Basic Economics	3
2040:254	The Black Experience from 1619 to 1877	2
2260:100	Introduction to Community Services	3
2260:150	Introduction to Gerontological Services	3
2260:260	Introduction to Addiction	3
2260:262	Basic Helping Skills	4
2260:277	Case Management in Community Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community and Social Service	5
3100:103	Natural Science: Biology	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
7750:270	Poverty in the United States	3
7750:276	Introduction to Social Welfare	4
7750:427	Human Behavior and Social Environment I	3
Technical Elective	as (suggested):	
2200:245	Infant/Toddler Day-Care Programs	3
2220:106	Juvenile Justice Process	3
2260:210	Addiction Education and Prevention	3
2260:230	Community-Based Residential Services	3
2260:240	Pharmacology of Psychoactive Drugs	3
2260:290	Special topics in Community Services Technology	2-4

** The following are recommended: 139, Life Saving; 155, Swimming; 173, Self-Defense; or 174, Karate.

11 Changes by subject each semester. Must be taken twice for a total of six credits.

***Graduates of an Ohio Basic Police Officers Training Academy may receive credit for 2220:xxx Technical Electives, six credits.

Prerequisites include 7750:427 Human Behavior in Social Work Environment (3) and 3100:103 ŧ Natural Sciences: Biology/Lab (4).

2290: Legal Assisting Technology

4

2020:121	English	4
2020:222	Technical Report Writing	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2220:104	Evidence and Criminal Legal Process	3
2290:101	Introduction to Legal Assisting	3
2290:104	Basic Legal Research and Writing	3
2290:106	Business Associations	3
2290:108	Real Estate Transactions	3
2290:110	Tort Law	3
2290:112	Family Law	3
2290:118	Probate Administration	4
2290:204	Advanced Legal Research	3
2290:214	Civil Procedure	3
2290:216	Debtor-Creditor Relations	3
2290:218	Advanced Probate Administration	3
2290:220	Legal Assisting Internship	4
2420:211	Basic Accounting I	3
2440:103	Software Fundamentals	2
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Electives	3
	Technical Electives	3
Recommended 0	Seneral Electives (choose one)	
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
Recommended T	echnical Electives (choose one)	
2220:102	Criminal Law for Police	3
2220:106	Juvenile Justice Process	3
2290:290	Special Topics - Legal Assisting	3-5

Credits

Wayne College

John P. Kristofco, Ph.D., *Dean* Paulette M. Popvich, Ph.D., *Associate Dean of Instruction*

HISTORY AND MISSION

To meet the needs of the citizens of Wayne, Holmes and Medina counties, The University of Akron–Wayne College opened its doors in 1972. Wayne College offers nine technical programs and nine certificate programs, as well as the first 64 credits of many baccalaureate programs. The following degrees are available from The University of Akron–Wayne College: Associate of Arts; Associate of Science; Associate of Technical Studies; Associate of Applied Business in Business Management Technology, Health Care Office Management and Office Administration; Associate of Applied Science in Environmental Health and Safety Technology, Computer Service and Network Technology, and Social Services Technology.

ADMISSIONS

Admission materials can be obtained by writing the Admissions Office at Wayne College or the Office of Admissions of The University of Akron, or by calling 683-2010 in the Orrville/Wooster area, or 1-800-221-8308 in Ohio.

The student enrolled at Wayne College may also take courses at the main campus of The University of Akron while attending Wayne College. Likewise, a student enrolled on the main campus may take courses at Wayne College. The University of Akron-Wayne College is accredited at the associate degree level by the North Central Association of Colleges and Schools.

WAYNE COLLEGE PROGRAMS

The following associate degree programs are available at Wayne College. The structure of these programs may differ from similar programs within the Community and Technical College of The University of Akron. All required courses for these programs are available at the college for students attending day or evening classes. A diploma issued as a result of the completion of one of these programs carries The University of Akron–Wayne College designation. In some instances, specific course sequencing is necessary, especially to the student attending full time, to accommodate completion of the program in two years. Please consult an adviser at Wayne College for further details.

Associate of Technical Studies

The Associate of Technical Studies (ATS) provides an integrated program of study for those students whose educational objectives and interests cannot be met through the college's formal associate degree programs. The Associate of Technical Studies permits students to combine various courses from two or more of the college's existing programs with other University credits, with credits earned at other postsecondary institutions, and/or with training received through other educational enterprises.

The Associate of Technical Studies is administered through the Office of the Dean and coordinated by the Associate Dean of Instruction. Interested students must complete a formal Associate of Technical Studies application. Upon application, the Associate Dean of Instruction makes an initial assessment of any transfer work and assists the applicant in selecting relevant areas of study. The application is then forwarded for review by the faculty most closely associated with the proposed area of study. Upon faculty acceptance, the application is submitted to the Associate of Technical Studies Committee who, upon approval, forwards the application to the dean of Wayne College for final approval.

The following are the graduation requirements for the Associate of Technical Studies:

- Completion of an Associate of Technical Studies application specifying a coherent combination of technical courses selectively drawn from two but no more than three major areas of study and reflecting a reasonable array of courses within each area of study.
- Approval of the Associate of Technical Studies application by the Associate Dean of Instruction, relevant faculty, the Associate of Technical Studies committee, and the dean of Wayne College.
- Degree application of only that transfer coursework completed with a "C" (2.0) grade or better.

- Completion of at least 14 credits of "general education" courses and 14 credits of "basic" courses, as required by the Ohio Board of Regents.
- Completion of at least one-half of the technical credits at The University of Akron and/or Wayne College, equally divided among the selected areas of study.
- Completion of a minimum of 64 credits with a grade point average of 2.0
- Completion of all other University graduation requirements.

2020: Associate of Arts/Associate of Science

The Associate of Arts and Associate of Science degree (sometimes referred to as the university parallel, transfer, or general education) programs are intended to produce an intelligent individual who understands effective social behavior and appreciates scientific fact and human values. The programs are designed to impart specific skills essential to effective adult functioning. These include the abilities to write and speak effectively, to calculate, and to think constructively and critically. The programs also provide a broad foundation of general knowledge about the physical and social universe as preparation for advanced baccalaureate study.

Most recipients of the Associate of Arts and the Associate of Science degrees transfer to bachelor's degree-granting institutions to complete their intellectual, professional, and cultural goals. The Associate of Arts and the Associate of Science degrees meet the general education requirements for most baccalaureate degree programs at The University of Akron and other college and universities through out the country.

Completing the Associate of Arts or the Associate of Science degree also fulfills the Transfer Module as outlined by the Ohio Board of Regents.

		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I ¹	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity Requirement ²	4
	Humanities Requirement 1	6
	Mathematics Requirement ³	3
	Natural Sciences Requirement 4	8
	Physical Education/Wellness	1
	Social Sciences Requirement ⁵	6
	Electives ⁶	22
		64
Science (Option	
3300:111	English Composition I	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I ¹	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity Requirement ²	4
	Humanities Requirement 1	6
	Mathematics Requirement ³	3
	Natural Sciences Requirement ⁴	8
	Physical Education/Wellness	1
	Social Sciences Requirement 5	6
	Electives 7	22
		64

1 Students must have completed a minimum of 32 semester credits and have completed 3300:112 English Composition II before enrolling for this course. An additional six credits of humanities must also be completed. Please consult an adviser for specific options.

- 2 Students must complete two courses totaling four credits from the area studies/cultural diversity options. The engineering student is required to take only one course. Please consult an adviser for specific options.
- 3 The mathematics requirement varies by department. Please consult an adviser for specific requirements.
- 4 A minimum of eight credits of natural science are required. One course must have a laboratory component. However, departmental requirements may vary. Please consult an adviser for specific information.
- 5 Students may satisfy the General Education Requirement in the social sciences area by completing two courses totaling six credits from two different sets in the social science group. Please consult an adviser for specific information.
- 6 In the arts program, a student is free to choose any electives, but they must be in some logical sequence. They should lead to some upper-college degree program, i.e., arts and sciences, education, or fine and applied arts.
- 7 In the science program, a student is free to choose any electives. However, at least two-thirds of the credits must be in the natural sciences; mathematics, statistics or computer science; engineering; business administration; or nursing department; and should lead to some upper-college degree objective.

2260: Social Services Technology

This program prepares graduate for preprofessional employment in social work as Social Work Assistants. The curriculum combines learning experiences in the classroom with field work in human service organizations. With only four additional credits beyond the associate degree, it is also possible to complete a Certificate in Gerontological Social Services and a Certificate in Therapeutic Activities. While both the associate to bachelor's and the general options can lead to immediate employment, the associate to bachelor's degree option also provides the first half of a bachelor's degree in social work at The University of Akron School of Social Work.

General Option

2040:240	Human Relations	3
2260:121	Social Service Techniques I	3
2260:122	Social Service Techniques II	3
2260:150	Introduction to Gerontological Services	3
2260:171	Career Issues in Social Services I	1
2260:172	Career Issues in Social Services II	1
2260:223	Social Service Techniques III	3
2260:260	Introduction to Addiction	3
2260:273	Career Issues in Social Services III	1
2260:275	Therapeutic Activities	3
2260:285	Social Services Practicum	1
2260:287	Social Services Practicum II	1
2260:294	Social Services Practicum Seminar	2
3300:111	English Composition	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3850:100	Introduction to Sociology	4
3850:104	Social Problems	3
7400:201	Courtship, Marriage and Family Relations	3
7600:106	Effective Oral Communication	3
7750:270	Poverty in the U.S.	3
7750:276	Introduction to Social Welfare	4
	Physical Education/Wellness	1
	Electives	_3
		60

Associate to Bachelor's Degree Option with Bachelor of Arts/Social Work degree

2260:121	Social Service Techniques I	3
2260:122	Social Service Techniques II	3
2260:150	Introduction to Gerontological Services	3
2260:171	Career Issues in Social Services I	1
2260:172	Career Issues in Social Services II	1
2260:223	Social Service Techniques III	3
2260:260	Introduction to Addiction	3
2260:273	Career Issues in Social Services III	1
2260:285	Social Services Practicum I	1-2
2260:287	Social Services Practicum II	1-2
2260:294	Social Services Practicum Seminar	2
3100:103	Natural Science-Biology	4
3300:111	English Composition	4
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
7750:270	Poverty in the U.S.	3
7750:276	Introduction to Social Welfare	4
	Economics requirement	3
	Human Development requirement	3
	Natural Science requirement	4
	Physical Education/Wellness	1
	Social Services Elective(s)	<u>1-3</u>
		68

2420: Business Management Technology

Accounting Option

Credits

The Accounting Option provides paraprofessional training for a variety of accounting positions. Graduates will be prepared for immediate employment in the areas of financial accounting, sales, procurement, credit and collections, business research, data compilation and reporting.

Condian

		Ciouita
2040:247	Survey of Basic Economics	3
2040:251	Human Behavior at Work	3
2040:260	The Arts and Human Experience	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:171	Business Calculations	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	2
2420:213	Essentials of Management Accounting	3
2420:214	Essentials of Intermediate Accounting	3
2420:216	Survey of Cost Accounting	3
2420:217	Survey of Taxation	4
2420:218	Automated Bookkeeping	2
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:103	Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:119	Business English	3
2540:263	Business Communications	3
2540:289	Career Development for Business Professionals	3
3300:111	English Composition	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Electives	_2
		67

Data Management Option – Networking Emphasis

Local area networks (LANs) have either supplemented or replaced mainframe computing systems. The increased reliance on LANs has led to a shortage of qualified local area network administrators. Wayne College's associate degree in Business Management Technology-Data Management with Network Emphasis will prepare you to meet the challenge of an exciting career in the computer networking and information technology industry. The Data Management program incorporates Novell, Inc. standard courses and prepares students to qualify for Novell's Certification. CNE certification is highly regarded by the computing industry.

2030:151	Elements of Mathematics I	2
2030:152	Elements of Mathematics	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2040:260	The Arts and Human Experience	3
2420:103	Essentials of Management Technology	3
2420:104	Intro. to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:102	Introduction to Windows	1
2520:101	Essentials of Marketing Technology	3
2540:119	Business English	3
2540:263	Business Communications	3
2600:270	Introduction to Network Technologies*	2
2600:272	Network Technology I*	3
2600:274	Network Technology II*	3
2600:276	Network Directory Structures*	2
2600:278	Network Troubleshooting Techniques*	3
2600:282	Current Networking Topics*	2
3300:111	English Composition	4
5540:xxx	Physical Education/Wellness	1
7600:106	Effective Oral Communication	_3
		64

Data Management Option – Software Emphasis

Wayne College's associate degree in Business Management Technology-Data Management: Software Emphasis can prepare you to meet the challenge of many exciting advancements being made in the Information Technology industry. The program prepares you to effectively use computers in a business environment. Graduates of this program will be prepared to fill first-level positions where computers are used in office management, computer sales, computer support, or local area network management.

Crodits

		0,00,00
2030:151	Elements of Mathematics I	2
2030:152	Elements of Mathematics II	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2040:260	The Arts and Human Experience	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	2
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:102	Introduction to Windows	1
2440:103	Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:170	Visual BASIC	3
2440:245	Introduction to Databases for Micros	3
2520:101	Essentials of Marketing Technology	3
2540:119	Business English	3
2540:263	Business Communications	3
2600:272	Network Technology I	3
3300:111	English Composition I	4
5540:xxx	Physical Education/Wellness	1
7600:106	Effective Oral Communication	_3
		64

General Business Option

The General Option provides training in varied business activities in preparation for a first-level management position in business, industry, government and non-profit organizations or as a self-employed manager.

2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2040:251	Human Behavior at Work	3
2040:260	The Arts and Human Experience	3
2420:103	Essentials of Management Technology	3
2420:104	Intro. to Business in the Global Environment	3
2420:171	Business Calculations	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	2
2420:218	Automated Bookkeeping	2
2420:243	Survey of Finance	3
2420:280	Essentials of Business Law	3
2440:103	Software Fundamentals	2
2520:101	Essentials of Marketing Technology	3
2540:119	Business English	3
2540:140	Keyboarding for Nonmajors	2
2540:263	Business Communications	3
2880:232	Labor-Management Relations	3
3300:111	English Composition	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Electives	_3

2530: Health Care Office Management

The Health Care Office Management program is designed to meet the needs of current health care office employees and others to develop skills to prepare for technical, supervisory, or management positions in the health care field. Graduates will be trained in the daily operation and management of the health care practice. The responsibilities include all administrative, financial, human resources, clerical, and supply functions.

		Creats
2040:240	Human Relations	3
2040:251	Human Behavior at Work	3
2040:260	The Arts and Human Experience	3
2420:103	Essentials of Management Technology	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2440:103	Software Fundamentals	2
2440:125	Spreadsheet Software	2
2530:241	Health Information and Records Management	. 3
2530:245	Reimbursement Payment Systems in Health Care	3
2530:255	Health Care Office Management & Medicolegal Issues	3
2530:260	Health Care Office Management Internship	3
2540:119	Business English	3
2540:256	Medical Office Procedures	3
2540:263	Business Communications	3
2540:284	Office Nursing Techniques I	2
2540:289	Career Development for Business Professionals	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
5550:211	First Aid & CPR	2
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	_1
		67

2540: Office Administration

The Wayne College Office Administration program prepares students for different but often overlapping fields of administrative assisting, secretarial, word processing, information management, or clerical work. This program is based on personal objectives; students choose from program options that prepare them for work as an executive assistant, a legal administrative assistant, or a health care administrative assistant. Associate degree courses may be applied toward a baccalaureate degee in business education or technical education.

Executive Assistant Option

2040:240	Human Relations	3
2040:260	The Arts and Human Experience	3
2420:103	Essentials of Management Technology	3
2420:171	Business Calculations	3
2420:211	Basic Accounting I	3
2440:102	Introduction to Windows	1
2440:125	Spreadsheet Software	2
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:150	Beginning Keyboarding	3
2540:151	Intermediate Word Processing	3
2540:241	Information Management	3
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:270	Business Software Applications	4
2540:271	Desktop Publishing	3
2540:273	Computer-Based Graphics Presentation	3
2540:281	Editing/Proofreading/Transcription	3
2540:28 9	Career Development for Business Professionals	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Elective	_1
		66

Legal Administrative Assistant Option

		Crouits
2040:240	Human Relations	3
2040:260	The Arts and Human Experience	3
2420:171	Business Calculations	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law	3
2440:102	Introduction to Windows	1
2440:125	Spreadsheet Software	2
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:150	Beginning Keyboarding	3
2540:151	Intermediate Word Processing	3
2540:241	Information Management	3
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:273	Computer-Based Graphics Presentation	3
2540:279	Legal Office Procedures	- 4
2540:281	Editing/Proofreading/Transcription	3
2540:289	Career Development for Business Professionals	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Elective	1

Health Care Administrative Assistant Option

2040:240	Human Relations	3
2040:260	The Arts and Human Experience	3
2420:171	Business Calculations	3
2440:103	Software Fundamentals	2
2530:241	Health Information and Management	3
2530:245	Reimbursement Payment Systems in Health Care	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:151	Intermediate Word Processing	3
2540:243	Intemship	3
2540:253	Advanced Word Processing	3
2540:256	Medical Office Procedures	3
2540:263	Business Communications	3
2540:282	Medical Machine Transcription	3
2540:284	Office Nursing Techniques I	2
2540:289	Career Development for Business Professionals	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
5550:211	First Aid and CPR	2
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
		65

2600: Computer Service and Network Technology

This program prepares you for employment in support of computer systems in a networked environment. You will be prepared to configure, install, maintain, upgrade, troubleshoot, and repair various networked computer systems used in manufacturing and service enterprises. You will also be prepared to support hardware areas of computer system communications, such as modems, and related electronics including power supplies, memory, microprocessors, and the interface between the system and peripheral components. Additionally, you will be prepared to support software areas of computer operating systems, such as DOS/Windows, and related application software including word processing, spreadsheet and database management. The Novell NetWare networking courses satisfy Novell's Certified Novell Engineer (CNE) course requirements. The Microsoft networking courses satisfy Microsoft's Certified Systems Engineer (MCSE) course requirements.

Graduates of this program have assumed positions in the computer and networking support industry such as: computer service technician, systems analyst, networking technician, PC specialist, computer systems specialist.

		Creats
2020:222	Technical Report Writing	3
2030:151	Elements of Math I	2
2030:152	Elements of Math II	2
2040:251	Human Behavior at Work	3
2440:121	Introduction to Logic/Programming	3
2440:145	Operating Systems	3
2600:100	Basic Electronics for Technicians	5
2600:125	Digital Electronics for Technicians	4
2600:160	Personal Computer Servicing	4
2600:180	Microprocessor Service Practicum	2
2600:185	Microprocessor Service Practicum Seminar	1
2600:240	Microsoft Networking 1	1-4
2600:242	Microsoft Networking II	1-4
2600:244	Microsoft Networking III	1-4
2600:246	Microsoft Networking IV	1-4
2600:270	Introduction to Network Technologies	2
2600:272	Network Technology	3
2600:274	Network Technology II	3
2600:276	Network Directory Structures	2
2600:278	Network Troubleshooting Techniques	3
2600:282	Current Networking Topics	2
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
		66

2800: Environmental Health and Safety Technology

This program is to prepare students for employment in business, industry, and government as environmental health and safety technicians. The environmental health and safety technicians carries out organizational plans intended to ensure a healthy and safe work and community environment. Specifically, the technician monitors, records, and reports on the handling, processing, and disposal of materials and products in compliance with local, state, federal, and organizational standards and trains and advises supervisory and operational personnel in the provision of a safe and healthy environment.

Graduates of the program will possess knowledge and laboratory skills sufficient to enable them to understand, communicate, and effectively address most environmental health and safety issues and will understand the legal and regulatory system within which modern industry operates. Environmental consulting firms, manufacturers, medical facilities, regulatory agencies, and waste treatment plants can hire graduates in entry-level positions to monitor and control wastes and to assist them in complying with local, state, and federal regulations and regulatory agencies.

2020:222	Technical Report Writing	3
2040:251	Human Behavior at Work	3
2230:250	Hazardous Materials	4
2230:257	Fire and Safety issues for Business and Industry	3
2420:104	Introduction to Business in the Global Environment	3
2800:200	Physics for Environmental Technicians	1
2800:210	Occupational Safety and Risk	3
2800:220	Environmental Law and Regulations	3
2800:230	Water and Atmospheric Pollution	3
2800:232	Environmental Sampling Laboratory	2
2800:250	Internship: Environmental Health and Safety	3
3100:104	Introduction to Ecology Laboratory	1
3100:105	Introduction to Ecology	2
3100:130	Principles of Microbiology	3
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry Laboratory I	1
3150:112	Introduction to General, Organic and Biochemistry II	3
3150:113	Introduction to General, Organic and Biochemistry Laboratory II	1
3300:111	English Composition I	4
3370:200	Environmental Geology	3
3470:260	Basic Statistics	3
3600:120	Introduction to Ethics	3
5550:211	First Aid and CPR	2
6200:250	Microcomputer Applications for Business	3
7600:106	Effective Oral Communications	_3
		66

Cradite

CERTIFICATE PROGRAMS

Certificate programs are designed to provide students with specialized job training utilizing courses from the college's associate degree programs. These courses may subsequently be applied toward the Associate of Applied Business in Office Administration or Business Management Technology degrees, the Associate of Applied Science in Health Care Office Management, Social Services Technology degree, or Computer Service and Network Technology.

Gerontological Social Services Certificate

Recipients of this certificate gain knowledge and skills to support social service employment in nursing homes, retirement communities, senior centers and nutrition sites, and similar settings. Although the elderly are the fastest growing group in our society and there are growing demands for individuals to work with older adults, there is a shortage of workers with specialized training in the field of aging. Therefore, this certificate enhances employability, especially when combined with an associate degree in Social Services Technology. With just one additional credit, it is possible to receive a Certificate in Therapeutic Activities.

		Credits
2260:121	Social Service Techniques I	3
2260:122	Social Service Techniques II	3
2260:150	Introduction to Gerontological Services	3
2260:171	Career Issues in Social Services I	· 1
2260:172	Career Issues in Social Services II	1
2260:251	Community Services for Senior Citizens	3
2260:275	Therapeutic Activities	3
2260:285	Social Services Practicum I	1-2
2260:294	Social Services Practicum Seminar	1
3100:103	Natural Science: Biology	4
3100:108	Introduction to Biological Aging	3
3300:111	English Composition	4
7750:276	Introduction to Social Welfare	_4
		24

Information Processing Specialist Certificate

Local area networks (LANs) have either supplemented or replaced mainframe computing systems. The increased reliance on LANs has led to a shortage of gualified local area network administrators. The purpose of the Information Processing Specialist Certificate is to assure employers that individuals involved in information processing possess skills in the use of the most current technology. This certificate program will provide college credit for those in supervisory, managerial, and support positions related to the area of information storage, retrieval, and processing.

2040:240	Human Relations	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2440:102	Introduction to Windows	1
2440:103	Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:170	Visual BASIC	3
2440:245	Introduction to Databases for Micros	3
2540:119	Business English	3
2540:263	Business Communications	3
2600:272	Network Technology I	_3
		32

Legal Office Assistant Certificate

This certificate prepares students for an entry-level office support position in the legal field. The program focuses on business law, legal office procedures, communication, and computer skills. All course work is applicable to the Legal Administrative Assistant associate degree. Office Administration-Executive Assistant option students may want to consider obtaining this certificate in conjunction with their associate degree to increase employment opportunities.

A minimum keyboarding speed of 35 words a minute is required upon entering the program as well as a basic knowledge of computers.

2420:171	Business Calculations		3
2420:280	Essentials of Business Law		3
2540:119	Business English		3
2540:121	Introduction to Office Procedures		3
2540:151	Intermediate Word Processing		3
2540:253	Advanced Word Processing	1	3
2540:263	Business Communications		3
2540:279	Legal Office Procedures		4
2540:281	Editing, Proofreading & Transcription		3
2540:289	Career Development for Business Professionals		3
			31

Medical Billing Certificate

The Medical Billing Certificate is designed for those who wish to become medical billing specialists. This certificate will prepare individuals to work in hospitals, nursing homes, outpatient clinics, medical group practices, health maintenance organizations, medical billing services, and insurance companies.

		Cibulta
2420:211	Basic Accounting I	3
2440:103	Software Fundamentals	2
2530:241	Health Information and Records Management	3
2530:245	Reimbursement Payment Systems in Health Care	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:151	Intermediate Word Processing	3
2540:256	Medical Office Procedures	3
2540:263	Business Communications	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
		22

Medical Transcription Certificate

The medical transcriptionist is an integral part of the health care team. Transcriptionists listen to dictated medical information from physicians and transcribe the information onto permanent medical records using a computer.

Wayne College's Medical Transcription Certificate prepares you to work in doctors' offices, hospitals, outpatient clinics, medical transcription services and insurance companies.

2530:241	Health Information and Records Management	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:256	Medical Office Procedures	3
2540:263	Business Communications	3
2540:282	Medical Machine Transcription	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	_3
		33

Network Management Specialist Certificate

Local area networks (LANs) have either supplemented or replaced mainframe computing systems. The increased reliance on LANs has led to a shortage of qualified local area network administrators. The purpose of the Network Management Specialist certificate is to assure employers that individuals involved in the management of local area networks possess skills in the use of the most current technology. To this end, this certificate program incorporates Novell, Inc. Standard courses and prepares students to qualify for Novell's Certified Novell Engineer (CNE) certification. CNE certification is highly regarded by the computing industry.

Students completing this certificate will be prepared to fill first-level positions requiring skills in local area network administration and support.

2040:240	Human Relations	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2440:102	Introduction to Windows	1
2440:103	Software Fundamentals	2
2540:119	Business English	3
2540:263	Business Communications	3
2600:270	Introduction to Network Technologies	2
2600:272	Network Technology I	3
2600:274	Network Technology II	3
2600:276	Network Directory Structures	2
2600:278	Network Troubleshooting Techniques	3
2600:282	Current Networking Topics	2
		33

Office Software Specialist Certificate

This certificate will instruct students to use the most popular software packages used in today's modern offices as well as the written and oral communications skills that employers require. All credits are applicable to the Associate of Applied Business degree in Office Administration - Executive Assistant option.

		Cibuits
2440:102	Introduction to Windows	1
2440:125	Spreadsheet Software	2
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:151	Intermediate Word Processing	3
2540:241	Information Management	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:271	Desktop Publishing	3
2540:273	Computer-Based Graphic Presentations	3
2540:289	Career Development for Business Professionals	3
7600:106	Effective Oral Communication	_3
		33

Personal Computer Repair Certificate

Wayne College's Personal Computer Repair Certificate prepares you for a career as a computer repairer, often called a field engineer or service technician. You will be prepared to perform functions such as installing new machines, doing preventive maintenance, and correcting emergency problems.

Wayne College's Personal Computer Repair Certificate prepares you to fill entrylevel positions servicing and maintaining computers in businesses where they are sold or used in daily operations. Typical job titles include:Customer Service Engineer, Field Engineer, Computer Service Technician, Bench Technician, Computer and Office Machine Repairer, Data Processing Equipment Repairer, **Computer Salesperson**

2020:222	Technical Report Writing	3
2030:151	Elements of Math I	2
2030:152	Elements of Math II	2
2040:251	Human Behavior at Work	3
2440:145	Operating Systems	3
2600:100	Basic Electronics for Technicians	5
2600:160	Personal Computer Servicing	4
2600:180	Microprocessor Service Practicum	2
2600:185	Microprocessor Service Practicum Seminar	1
3300:111	English Composition I	4
7600:106	Effective Oral Communication	_3
		32

Therapeutic Activities Certificate

This certificate prepares recipients for entry-level positions in activities in longterm care, an area with frequent job openings, and to meet the psychosocial needs of older adults through individual and group therapeutic activities in diverse settings. Combined with the Certificate in Gerontological Social Services, it also provides knowledge and skills to support social service roles with the elderly. While enhancing employability and effectiveness in the field of aging, much of the content can also be applied to diverse fields of practice and is helpful for work with numerous populations.

2260:150	Introduction to Gerontological Services	3
2260:251	Community Services for Senior Citizens	3
2260:275	. Therapeutic Activities	3
2260:276	Practicum in Therapeutic Activities	1
		10

GENERAL EDUCATION/ TRANSFER PROGRAM

Wayne College offers the first two years of general baccalaureate education for transfer to the Akron campus of The University of Akron or to any other college or university. General courses in communications, the humanities, cultural diversity, social sciences, mathematics and natural sciences are required, along with basic courses in the student's chosen field. For undecided students, this is the time to take courses from several areas in order to select a field most to their liking.

The following outlines represent the first two years of study for various bachelor's degree programs of The University of Akron. Some courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements. These programs are marked with an asterisk (*). Finally, completion of the courses listed may also qualify a student to receive either the Associate of Arts or the Associate of Science degree. Please consult a Wayne College adviser for further details.

3100: Biology

First Year		Credits
3100:111	Principles of Biology I	4
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:149	Precalculus Mathematics	_4
		32
Second Year		
3100:211	General Genetics	3
3100:217	General Ecology	3
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	. 3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3400:210	Humanities in the Western Tradition I	4
	Physical Education/Wellness	1
	Beginning Foreign Language	8
	Social Science Requirement	_6
		35
3150: Ch	emistry	
First Year		
2150-151	Dringinian of Chamieta I	3

L'HRE TOUR		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
3450:221	Analytic Geometry-Calculus I	4
	Physical Education/Wellness	1
	Foreign Language Requirement	8
	or	
	Social Science Requirement	6
		31-33
Second Year		
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3450:222	Analytic Geometry-Calculus II	4
3450:223	Analytic Geometry-Calculus III	4
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
7600:106	Effective Oral Communication	3
	Foreign Language Requirement	6-8
	or	
	Social Science Requirement	6
		35-37

3250 Eco	nomics		Second Year		Credits
J230. LUU		Condita	3400:210	Humanities in the Western Tradition I	4
First Year		Creans		Areas Studies/Cultural Diversity Requirement	4
3300:111	English Composition I	4		Humanities Requirement	6
3300:112	English Composition II	3		Intermediate Foreign Language	6
3450:145	College Algebra	4		Natural Science Requirement	8
3450:215	Concepts of Calculus I	4		Electives	_4
7600:106	Effective Oral Communication	3			32
	Beginning Foreign Language	8		1 (10 1 1 1 1	
	Natural Science Requirement	8	3370: Geo	blogy (and Geophysics)**	
	Physical Education/Wellness	ユ	First Year		
	,	35	3300:111	English Composition I	4
Second Year			3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I	4	3150:151	Principles of Chemistry I	3
3250.200	Principles of Microeconomics	3	3150:152	Principles of Chemistry Laboratory	1
2250-201	Principles of Macroaconomics	3	3150:153	Principles of Chemistry II (ontional for B A)	3
3250.201	Arres Chudios Cultural Discrity Requirement	ů.	3150.155	Qualitative Apply is (optional for B A and B S)	2
	Areas Studies/Cultural Diversity nequirement	4	3130.134	Later traties to Divisional Coology	2
	Humannies Requirement	6	3370:101	Introduction to Physical Geology	4
	Intermediate Foreign Language	0.	3450:149	Precalculus Mathematics	4
	Social Science Requirement	3	3450:221	Analytic Geometry-Calculus I (for B.S.)	4
	Electives	_3		Physical Education/Wellness	1
		32		Social Science Requirement	6
				Electives (for B.A.)	<u>4-9</u>
3250.01 L	abor Economics*			•	35
Elect Veer			Second Year		
2050-200	Drineiples of Microssonomics	2	3100:111	Principles of Biology I (for B.A.)	4
3250:200	Principles of Microeconomics	3	0100.111		
3250:201	Miniciples of Macroeconomics	3	3450-222	Anabetic Geometry/Calculue II /for B.S.)	4
3300:111	English Composition I	4	3430.222	Analytic Georneu y-Calculus # (for B.S.)	
3300:112	English Composition II	3	3370:102	Introductory Historical Geology	4
3450:145	College Algebra	4	3400:210	Humanities in the vvestern Tradition I **	4
3450:215	Concepts of Calculus I	4	7600:106	Effective Oral Communication	3
7600:106	Effective Oral Communication	3		Areas Studies/Cultural Diversity Requirement	4
	Physical Education/Wellness	1		Humanities Requirement**	6
	Flectives	7		Beginning Foreign Language	_8
	Elocaves	32			33
Count Voor		52			
	Munnetities in the Mestern Tradition I	,	3400: His	tory	
3400:210	Humanities in the vvestern i radition i	4	First Year	•	
	Areas Studies/Cultural Diversity Requirement	4	3300/111	English Composition I	4
	Humanities Requirement	6	2200:112	English Composition II	2
	Natural Science Requirement	8	3400.712	Ligian composition in	, ,
	Social Science Requirement	3	3400.250		4
	Electives		3400:251	U.S. History since 1877	4
		32	7600:106	Effective Oral Communication	3
				Beginning Foreign Language	8
3300 Eng	lieh#			Mathematics Requirement	3
SSVU. Elly	11211			Physical Education/Wellness	1
First Year				Social Science Requirement	_3
3300:111	English Composition I	4			33
3300 112	English Composition II	3	Second Year		
7600:106	Effective Oral Communication	3	3400:210	Humanities in the Western Tradition I	4
7000.100	Beginning Ferrige Language	9	3400:323	Furope: From Bevolution to World War, 1789-1914	3
	Mathematics Desuinment	5	3400:324	Europe: From World War I to the Present	3
	Mathematics Requirement	3	0400.024	Aroon Studios/Cultural Diversity Requirement	3
	Physical Education/VVeliness	1		Areas Studies/Cultural Diversity Requirement	4
	Social Science Requirement	6		Humanrues Hequirement	6
	Electives	_4		Intermediate Foreign Language	6
		32		Natural Science Requirement	<u>8</u>
Second Year					34
3400:210	Humanities in the Western Tradition I	4	34EA. 14-	themetice (and Anniled Black	motion1#
	Areas Studies/Cultural Diversity Requirement	4	345U: IVIA	thematics (and Applied Mather	natics) *
	Humanities Requirement	6	(ana 2470) Sta	tistico holoud	
	Intermediate Foreign Language	6	(500 3470. 518	lusics below)	
	Natural Science Requirement	0			
	Flasting	8	3460: Cor	mputer Science	
	Electives	-4	East Vees		
		32	FIRST TEAM	Farlish Communities 1	
3350 Geo	arenhy and Planning*		3300:111	English Composition {	4
0000.000	graphy and hanning		3300:112	English Composition II	3
First Year			3450:221	Analytic Geometry-Calculus I	4
3300:111	English Composition I	4	3460:209	Introduction to Computer Science	4
3300:112	English Composition II	3		Beginning Foreign Language	8
3350.100	Introduction to Geography	à		Physical Education/Wellness	1
	Mathematics Requirement	2		Natural Science Requirement	8
7600-106	Effective Oral Communication	3			32
/000:100	Designing Francisco Language	3			02
	Beginning Foreign Language	8			
	Physical Education/Wellness	1			
	Social Science Requirement	3			
	Electives	_4			
		32			
			Geophysics	majors must take 3650:291 and 292, Elementary Classical P	nysics I and II during the
			second year	Instand of the numberides creats.	

ertain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

 Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

Second Year		Credits
3400:210	Humanities in the Western Tradition I	4
3450:222	Analytic Geometry-Calculus II	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	Social Science Requirement	6
		33
3470: Sta	tistics	
First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
7600:106	Effective Oral Communication	3
	Natural Science Requirements	8
	Physical Education/Wellness	1
	Social Science Requirements	6
	or	

Beginning Foreign Language

Second Year

Students attending part time, or who are ineligible to take 3450:221 during the first year can take additional requirements at Wayne College during the second year. Students attending full time should go to the Akron campus in the second year to take required mathematics prerequisite courses. Please consult a Wayne College adviser.

_<u>8</u> 33-35

3700: Political Science*

First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics Requirement	3
	Physical Education/Wellness	1
	Social Science Requirement	3
	Electives	_3
		32
Second Year	,	
3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	Natural Science Requirement	8
	Electives	_4
		32

3750: Psychology*

E		
First Tear		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3750:105	Professional and Career Issues in Psychology	1
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics Requirement	3
	Physical Education/Wellness	1
	Electives	_2
		32
Second Year		
3400:210	Humanities in the Western Tradition 1	4
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	Natural Science Requirement	8
	Electives	_4
		32

3850: Sociology*

Eret Veen	••	C
2200-111	Fastish Companying I	Creatts
2200.111	English Composition I	4
3300:112	English Composition II	3
3850:100	Introduction to Sociology	4
3850:104	Social Problems	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics Requirement	3
	Physical Education/Wellness	1
	Social Science Requirement	3
		32
Second Year		
3230:150	Cultural Anthropology	4
3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	Natural Science Bequirement	8
		32
4200: Che	emical Engineering*	
First Year		•
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
	Physical Education Wellness	1
	Thysical Ecadadol # Pointess	34
Second year		0.
3150:263	Organic Chemistry Lecture	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory 1	2
3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
2450:222	Applytic Geometry Colouius III	A
2450:225	Introduction to Ordinan, Differential Equations	3
3450.335	Elementer (Cleaning) Physical	3
3050.291	Elementary Classical Physics I	-
3000.292	Elementary classical Physics II	4
	Area Studies/Cultural Diversity Requirements	
		32
4300: Civ	il Engineering*	
First Year		
3150:151	Principles of Chemistry I	3
3150.152	Principles of Chemistry I Laboratory	1
2150:152	Principles of Chemistry II	3
2200:111	English Composition I	4
3300.111	English Composition II	2
3300.112	English Composition II	3
3450.221	Analytic Geometry-Calculus 1	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	lools for Engineering	3
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Social Science Requirement	_3
Second Ver-		32
3250-244	Introduction to Economic Analysis	3
3200.244	Humanities in the Western Tradition I	3
3400:210	Appleting Constants Coloring III	4
3450.223	Analytic Geometry-CalculUS III	4
3450:335	Introduction to Urdinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300.201	Statics	3

 Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements. 3 _6 34

4600:203

Dynamics

Humanities Requirement

Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

4400: Electrical Engineering

First year	
3150:151	Principles of Chemistry I
3150:152	Principles of Chemistry I Laboratory
3150:153	Principles of Chemistry II
3300:111	English Composition I
3300:112	English Composition II
3450:221	Analytic Geometry-Calculus I
3450:222	Analytic Geometry-Calculus II
4100:101	Tools for Engineering
7600:106	Effective Oral Communication
	Physical Education/Wellness
	Social Science Requirement
Second Year	
Second Year 3250:244	Introduction to Economic Analysis
Second Year 3250:244 3400:210	Introduction to Economic Analysis Humanities in the Western Tradition
Second Year 3250:244 3400:210 3450:223	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III
Second Yeer 3250:244 3400:210 3450:223 3450:335	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations
Second Year 3250:244 3400:210 3450:223 3450:335 3650:291	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations Elementary Classical Physics I
Second Year 3250:244 3400:210 3450:223 3450:335 3650:291 3650:292	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations Elementary Classical Physics I Elementary Classical Physics I
Second Year 3250:244 3400:210 3450:223 3450:335 3650:291 3650:292 4300:201	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations Elementary Classical Physics I Elementary Classical Physics II Statics
Second Year 3250:244 3400:210 3450:223 3450:335 3650:291 3650:292 4300:201 4400:201	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations Elementary Classical Physics I Elementary Classical Physics II Statics Circuits I
Second Year 3250:244 3400:210 3450:223 3450:335 3650:291 3650:292 4300:201 4400:231	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations Elementary Classical Physics I Elementary Classical Physics II Statics Circuits I
Second Yeer 3250:244 3400:210 3450:223 3450:335 3650:291 3650:292 4300:201 4400:231 4400:232	Introduction to Economic Analysis Humanities in the Western Tradition Analytic Geometry-Calculus III Introduction to Ordinary Differential Equations Elementary Classical Physics I Elementary Classical Physics II Statics Circuits I Circuits II Areas Study/Cultural Diversity requirement

4600: Mechanical Engineering

Principles of Chemistry
Principles of Chemistry I Laboratory
Principles of Chemistry II
English Composition I
English Composition II
Analytic Geometry-Calculus I
Analytic Geometry-Calculus II
Tools for Engineering
Effective Oral Communication
Physical Education/Wellness
Social Science Requirement
Introduction to Economic Analysis
Humanities in the Western Tradition I
Analytic Geometry-Calculus III
Introduction to Ordinary Differential Equations
Elementary Classical Physics I
Elementary Classical Physics II
Statics
Introduction to Mechanics of Solids
Dynamics
Humanities Requirement

5200: Early Childhood Education*

Early Childhood Licensure Option (age three through grade three inclusive)

First Year		
3100:103	Natural Science-Biology	4
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:140	Mathematics for Elementary School Teachers	3
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Natural Science Requirement	4
	Physical Education/Wellness	1
	Social Science Requirement	6
	Elective	_1
		32
Second Year		
3400:210	Humanities in the Western Tradition I	4
3450:250	Mathematics for Kindergarten through 9th Grade Teachers	3
5100:210	Characteristics of Learners	3
5100:211	Teaching and Learning Strategies	3
5500:245	Understanding Literacy Development and Phonics	3
5500:286	Teaching Multiple Texts through Genre	3
7400:270	Theory and Guidance in Play	3
7400:360	Parent-Child Relations	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	_6
		25

 Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

5250: Middle Level Education

_<u>6</u>

Middle Level	Licensure Option (grades 4-9 inclusive)	
First Year		Credits
3300:111, 112	English Composition I, II	7
3450:140	Mathematics for Elementary School Teachers	3
7600:106	Effective Oral Communication	3
	Natural Science Requirement	8
	Physical Education/Wellness	1
	Social Science Requirement	6
	Area of Concentration Course or Electives	_4
		32
Second Year		
3400:210	Humanities in the Western Tradition I	4
3450:250	Mathematics for Kindergarten through 9th Grade Teachers	3
5100:210	Characteristics of Learners	3
5100:211	Teaching and Learning Strategies	3
5500:245	Understanding Literacy Development and Phonics	3
5500:286	Teaching Multiple Texts through Genre	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Area of Concentration Courses or Electives	3
		32

5300: Secondary Education*

Adolescent to Young Adult Licensure Option (Middle, Junior and Senior High School)

LISTIGUE		
3300:111	English Composition	4
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
	Natural Science Requirement	8
	Physical Education/Wellness	1
	Social Science Requirement	6
	Teaching Field(s) Course or Electives	_4
		32
Second year		
3400:210	Humanities in the Western Tradition I	4
5100:210	Characteristics of Learners	3
5100:211	Teaching and Learning Strategies	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	. 6
	Teaching Field(s) Courses or Electives	12
		32

6000: Business Administration

Options

Accounting, Finance, Managament, Marketing, Advertising, International Business

First Year

Liter Loom		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:141	Algebra with Business Applications	3
	or	
3450:145	College Algebra	4
3450:210	Calculus with Business Applications	3
	or	
3450:215	Concepts of Calculus I	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
3230:150	Cultural Anthropology	4
7600:106	Effective Oral Communication	3
	Natural Science Requirement	8
	Physical Education/Wellness	1
	Electives	1-4
		22

Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

Second Year		Credits
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
3400:210	Humanities in the Western Tradition I	4
6200:201	Accounting Concepts and Principles for Business	3
6200:202	Managerial Accounting	3
6200:250	Microcomputer Applications for Business	3
6400:220	Legal and Social Environment of Business (except Accounting majors) 3
6500:221	Quantitative Business Analysis I	3
6500:222	Quantitative Business Analysis II	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
		35-38
7100: Art ^ı	•	
First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
7100:131	Introduction to Drawing	3,
7100:144	Two-Dimensional Design	3
7100:xxx	Studio Art Courses	6
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Social Science Requirement	6
	Electives	_3
		32
Second Year		
3400:210	Humanities in the Western Tradition I	4
7100:xxx	Studio Art Courses	6
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Mathematics Requirement	3
	Natural Science Requirement	8
	Electives	ユ
		32

7400: Family and Consumer Sciences*

Options		
Distatics*		
First Year		
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry I, Laboratory	1
3150:112	Introduction to General, Organic and Biochemistry II	3
3150:113	Introduction to General, Organic and Biochemistry II, Laboratory	1
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:260	Basic Statistics	3
3850:100	Introduction to Sociology	4
7400:201	Courtship, Marriaga, and Family Relations or	3
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Economics Requirement	3
	Physical Education/Wellness	ユ
		32
Second Year		Credits
3100:130	Principles of Microbiology	3
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3400:210	Humanities in the Western Tradition I	4
3750:100	Introduction to Psychology	3
6200:201	Accounting Concepts and Principles for Business or	3
2420:211	Basic Accounting I	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Elective	ユ
		32

Family Life ar	nd Child Development	
First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology (Family Life Option only)	3
3850:100	Introduction to Sociology (Fairling Life Option only)	4
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
	Economics Requirement	3
	Physical Education/Wellness	1
	Electives	_4
Conned Voca		32
2400-210	Humphitian in the Moston Tradition I	
7400.210	Courtship Merriage and Family Relations	4
7400:265	Child Development	3
7750:276	Introduction to Social Welfare (Family Life Option only)	4
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science Requirement	_ <u>8</u> 32
Eachion Mara	handising	
	nanusing	
2520-101	Essentials of Marketing Technology	2
3300:111	Essentials of Marketing Technology	3
3300:112	English Composition I	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Economics Requirement	3
	Foreign Language Courses	
	or Language Alternative Courses	Ŕ
	Physical Education/Wellness	1
	Mathematics Requirement	_3
		32
Second Year		
2520:103	Principles of Advertising	3
2520:212	Principles of Sales	3
3400:210	Humanities in the Western Tradition I	4
7400:201	Courtship, Marriage, and Farnily Relations	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science Requirement	8
	Electives	2
Food Science		33
First Year		
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry I, Laboratory	2
3150:112	Introduction to General, Organic and Biochemistry II Laboratory	1
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:260	Basic Statistics	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	or	
	Language Alternative Courses	8
	Economics requirement	3
	FIYSICAL EDUCADOR V YOUR ISS	33
Second Year		
2440:103	Software Fundamentals	2
3100:130	Principles of Microbiology	3
3400:210	Humanities in the Western Tradition 1	4
3750:100	Introduction to Psychology	3
7400-201	Introduction to Sociology Courtebin, Marriana, and Family Belations	4
/-100.201		5
7400:265	Child Development	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	or	
	Language Alternative Courses	_6
		35

 Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

7600: Communication

First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
7600:102	Survey of Mass Communication	3
7600:115	Survey of Communication Theory	3
7600:200	Careers in Communication	1
	Mathematics Requirement	3
	Physical Education/Wellness	1
	Social Science Requirement	6
	Elective (typing/word processing recommended)	5
		32
Second Year		
3400:210	Humanities in the Western Tradition I	. 4
	Areas Studies/Cultural Diversity Requirement	4
	Communication Major Emphasis Courses	6
	Foreign Language Courses	
	or	
	Language Alternative Courses	8
	Humanities Requirement	6
	Natural Science Requirement	8

7750: Social Work

LUST LOG		
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:260	Basic Statistics	3
3700:100	Government and Politics in the U.S.	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7750:270	Poverty in the U.S.	3
7750:276	Introduction to Social Welfare	4
	Economics Requirement	3
	Physical Education/Wellness	1
		32
Second Year		
3100:103	Natural Science-Biology	4
3400:210	Humanities in the Western Tradition I	4
7600:106	Effective Oral Communication	3
7750:xxx	Social Work Requirements	8
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science Requirement	4
	Social Science elective	_3
		36

8200: Nursing

First Year		Credits
3100:130	Principles of Microbiology	3
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry I, Laboratory	1
3150:112	Introduction to General, Organic and Biochemistry II	3
3150:113	Introduction to General, Organic and Biochemistry II, Laboratory	1
3250:200	Principles of Microeconomics	3
	or	
3700:100	Government and Politics in the U.S.	4
3300:111	English Composition I	4
3300:112	English Composition II	3
3600:120	Introduction to Ethics	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
	or	
3230:150	Cultural Anthropology	4
8200:100	Introduction to Nursing	1
	Physical Education/Wellness	L
		22

Students are eligible to apply to the College of Nursing during spring semester of the first year if they have completed all of the courses listed above and attained a grade point average of 2.50 or higher. If the student is accepted into the college, attendance at the Akron campus is necessary during the second year in required clinical nursing courses. The following list of courses may be taken at Wayne College during the second year by students who do not satisfy the admission requirements.

4

4

4

3

_<u>3</u> 32

Second Year 3100:200, 201 Human Anatomy and Physiology I, Lab 3100:202, 203 Human Anatomy and Physiology II, Lab 3400:210 Humanities in the Western Tradition I 3470:260 Basic Statistics 3750:230 Developmental Psychology 7600:106 Effective Oral Communication Areas Studies/Cultural Diversity Requirement Humanities Requirement

Electives

University College

Karla T. Mugler, Ph.D., Dean Lori M. Bowman, Interim Director, New Student Orientation Coleen Curry, M.A., Assistant Dean Jess W. Hays, M.A., M.B.A., Director, Academic Advisement Center Michael W. Morsches, M.A., Director of Developmental Programs Bonnie Williams. Assistant Dean

OBJECTIVES

The purpose of the University College is to further the objectives of The University of Akron by providing a quality program of collegiate education and to pursue the following airms:

- To offer students a basic program of General Education and the prerequisite courses for advancement to the degree-granting colleges.
- To offer a program of courses to prepare students for enrollment in General Education courses.
- To provide academic support services for students to strengthen their basic skills and facilitate their success in college courses.
- To assist new students in their transition to college through a comprehensive New Student Orientation program prior to enrollment, as well as a semesterlength University Orientation Course.
- To direct students to the proper curricula to ensure that students will enter their degree-granting colleges prepared to undertake advanced course work.
- To encourage, foster, and support departmental, collegiate, and community
 programs and projects which further intercultural awareness and international understanding.
- To ensure for transfer students a smooth transition to The University of Akron.

The college recommends the student for advancement to the degree-granting colleges upon satisfactory completion of the appropriate requirements.

A student who completes 30 semester credits and achieves a grade-point average of 2.00 ("C") or better may be eligible for transfer to a degree-granting college. A student should always check with an adviser to determine specific requirements for transfer to the program of the student's choice.

Acceptance of a student in a degree-granting college is the responsibility of the respective collegiate dean, the dean of the University College, and heads of departments concerned.

GENERAL EDUCATION

The General Education Program of The University of Akron is the core of courses that provide the skills and knowledge considered essential for all graduates of the University. The General Education Program is designed to ensure, insofar as possible, that our graduates will possess:

- the capacity for critical, independent thought.
- a personal sense of values, tempered by tolerance and a regard for the rights of others.
- the ability to use language effectively as a medium of both thought and expression.
- the analytical skills necessary to make sound qualitative and quantitative judgements.
- the ability to describe and explain differences in civilizations and cultures.
- an understanding of the conditions that affect them as individuals and as members of society.
- the capacity to evaluate intellectual and artistic achievements.
- a knowledge of science, technology, and mathematics and their effects on human activities.
- a knowledge of positive mental and physical health practices.

Recommended Core Curriculum

Students pursuing a baccalaureate degree must complete the General Education Program, which consists of 42 credits distributed among eight categories. Students are advised to select General Education courses in conjunction with courses needed for their major during their first few years of study. **Students should work to complete their English, Mathematics, and Speech requirements during their first year of study**. *Courses noted with a single asterisk (*) will apply toward the General Education requirement only for students enrolled in the Community and Technical College.* All students are responsible for meeting prerequisites for the necessary courses listed in the General Education Program. **NOTE:** Specific departmental requirements may vary, so students are encouraged to consult an adviser for specific information about selecting appropriate General Education courses from the recommended core curriculum.

English Composition: 7 credits - 2 courses

		Credits
2020:121	English*	4
	or	
3300:111	English Composition I	4
3300:112	English Composition II	3

Mathematics: 3 credits

(Students enrolling in a higher-level math course may use this course to meet their General Education requirement)

2030:151,152,153 Elements of Math I, II, III*		
(Must complete a	II 3 courses. Only 3 credits apply toward fulfilling General Education req	uirement)
2030:161	Math for Modern Technology*	4
3450:113	Combinatorics/Probability	1
3450:114	Matrices	1
3450:115	Linear Programming	1
3450:127	Trigonometry	2
3450:135	Math for Liberal Arts	3
3450:138	Math of Finance	1
3450:140	Math for Elementary Teachers	3
3450:141	Algebra with Business Applications	3
3450:145	College Algebra	4
3450:210	Calculus with Business Applications	3
3470:260	Basic Statistics	3
3470:261	Introduction to Statistics I	2
3470:262	Introduction to Statistics II	2

Natural Science: 8 credits minimum – At least two courses, one of which must be a lab

(Students in higher-level science courses with a lab may use those courses to meet their General Education requirements.) Select one course each from a minimum of two different sets:

4

Anthropology

3230:151 Human Evolution

Biology		
2780:106	Anatomy and Physiology for Allied Health I*	3
2780:107	Anatomy and Physiology for Allied Health II*	3
3100:100	Introduction to Botany/Lab	4
3100:101	Introduction to Zoology/Lab	4
3100:103	Natural Science Biology/Lab	4
3100:104	Introduction to Ecology Lab*	1
3100:105	Introduction to Ecology*	2
3100:108	Introduction to Biological Aging (Wayne College only)	3
Chemistry		
2820:105	Basic Chemistry*	3
2820:111	Introductory Chemistry*	3
2820:112	Introductory and Analytical Chemistry*	3
3150:100	Chemistry and Society	3
Geology		
3370:100	Earth Science	3
3370:101	Introductory Physical Geology	4
3370:103	Natural Science Geology	3
3370:121-140	Concepts in Geology	1
3370:200	Environmental Geology	3
3370:201	Exercises in Environmental Geology I	1
3370:203	Exercises in Environmental Geology II	1

Will apply toward the General Education requirement only for students enrolled in the Community and Technical College.

Physics		Credits
2820:161	Technical Physics: Mechanics I*	2
2820:162	Technical Physics: Mechanics II*	2
2820:163	Technical Physics: Electricity and Magnetism*	2
2820:164	Technical Physics: Heat and Light*	2
3650:130	Descriptive Astronomy	4
3650:133	Music, Sound and Physics	4
3650:137	Light/Lab	4
Oral Com	munication: 3 credits	
7600:105	Introduction to Public Speaking	3
7600:106	Effective Oral Communication	3
Social Sc	iences: 6 credits	
(One course fro	om two different sets for a minimum of 6 credits)	
Set 1 - Econ	omics	
2040:247	Survey of Basic Economics*	3
3250:100	Introduction to Economics	3
3250:200	Principles of Microeconomics	3
3250:244	Introduction to Economic Analysis	3
Set 2 - Geog	raphy	
3350:100	Introduction to Geography	3
Set 3 - Gove	rnment/Politics	
2040:242	American Urban Society*	3
3700:100	Government and Politics in the United States	4
3700:150	World Politics and Governments	3
Set 4 - Psycl	hology	
2040:240	Human Relations*	3
3750:100	Introduction to Psychology	3
Set 5 - Socio	ology/Anthropology	
3230:150	Cultural Anthropology	4
3850:100	Introduction to Sociology	4
5100:150	Democracy in Education	3
Set 6 - Unite	ed States History	
3400:250	U.S. History to 1877	4
3400:251	U.S. History since 1877	4
Set 7 - Scien	nce/Technology/Society	
2040:241	Technology of Human Values	2
2040:243	Contemporary Global Issues	3
3600:125	Theory and Evidence	3
Humaniti	ies: 10 credits – 3 courses	

All students are required to complete:

3400:210 Humanities in the Western Tradition I Students may select one course from two different sets below for a minimum of six

additional credits: Set 1 - Fine Arts

7100:210	Visual Arts Awareness	3
7500:201	Exploring Music: Bach to Rock	3
7800:301	Introduction to Theatre through Film	3
7900:200	Viewing Dance	3
Set 2 - Philo	sophy/Classics	
3200:220	Introduction to the Ancient World	3
3200:230	Sports and Society in Ancient Greece and Rome	3
3200:289	Mythology of Ancient Greece	3
3600:101	Introduction to Philosophy	3
3600:120	Introduction to Ethics	3
3600:170	Introduction to Logic	3
Set 3 - Litera	ature	
3300:250	Classic and Contemporary Literature	3
3300:251	Topics in World Literature	3
3300:252	Shakespeare and His World	3
3300:281	Fiction Appreciation	3
Other literatur	re in English translation:	
3200:361	Literature of Greece	3
3580:350	Literature of Spanish-America in Translation	3
Set 4		
3400:211	Humanities in the Western Tradition II	4

Area Studies & Cultural Diversity: 4 credits – 2 courses

		Credits
1810:201	Introduction to Pan African Studies	3
1840:300	Introduction to Women's Studies	3
2040:254	The Black Experience from 1619 to 1877	2
2040:255	The Black Experience since 1877	2
2040:256	Diversity in American Society	2
3005:300	Canadian Studies: An Interdisciplinary Approach	3
3230:251	Human Diversity	3
3350:375	Geography of Cultural Diversity	2
3400:385	World Civilization: China	2
3400:386	World Civilization: Japan	2
3400:387	World Civilization: SE Asia	2
3400:388	World Civilization: India	2
3400:389	World Civilization: Near East	2
3400:390	World Civilization: Africa	2
3400:391	World Civilization: Latin America	2
7600:325	Intercultural Communication	3

NOTE: A student majoring in medical technology or engineering is only required to take two credits from the Area Studies & Cultural Diversity area of General Education requirements

Physical Education/Wellness: 1 credit

4

5540:120-183	Physical Education	.5 - 1
5550:150	Concepts of Health and Fitness	3
5550:194	Sports Officiating	2
5550:211	First Aid and Cardiopulmonary Resuscitation	2
5570:101	Personal Health	2
7400:133	Nutrition Fundamentals	3
7510:126	Marching Band	1
7900:119/120	Modern Dance I/II	2
7900:124/125	Ballet I/I	2
7900:130/230	Jazz Dance I/I	2
7900:144	Tap Dance i	2

Note: Dance technique courses do not meet this requirement for dance majors.

ACADEMIC ADVISEMENT CENTER

The professional advisers in the Academic Advisement Center seek to:

- · Support and advise students of any age, gender, disability, race, and/or cultural differences on academic, career, and related matters.
- Create opportunities to assist students with various educational backgrounds in developing and achieving their educational goals and to effectively utilize the resources at The University of Akron and the surrounding community
- Act as an advocate for the student in interpreting issues, policies, and procedures for the University
- ٠ Communicate accurate and timely information to students by acting as a liaison between our department and other departments at the University
- Participate in professional growth by teaching, research, administrative, and • leadership activities

The Academic Advisement Center (AAC) offers a comprehensive array of services designed to assist students in attaining their personal, academic, and career goals. The service is available to all new and returning students, including adult, postbaccalaureate, special high school, and transfer students. The following represents a partial list of some of the issues students may wish to discuss with an adviser:

- Course selection and educational planning
- · Changing majors
- Dropping and adding classes
- Clarification of academic procedures and policies
- Academic progress
- Career planning
- Course workloads and study habits
- Prescribing learning strategies for conditionally admitted students
- Transferring to a degree-granting college
- ٠ Referrals to other departments/services on campus

Academic advising is a continuous process of clarification and evaluation that exists between adviser and advisee. The role of the academic adviser is to assist students in identifying alternatives and working through the decision-making process.

Will apply toward the General Education requirement only for students enrolled in the Community and Technical College

DEVELOPMENTAL PROGRAMS

The Department of Developmental Programs provides academic support:

- for all University students through individual tutoring, work in the Study Skills centers, Mathematics and Writing laboratories, and study strategies courses. Through these activities students develop and strengthen the skills necessary for successful performance at the college level.
- for students, including those who have been out of school for a number of years, who wish to strengthen their educational preparation through coursework in specific areas.

Developmental Courses

Developmental courses are offered in writing, reading, college reading and study skills, mathematics, and chemistry. (See 1020:042 through 071) Applied Study Strategies courses are offered in conjunction with specific General Education courses such as Introduction to Psychology, Introduction to Sociology, U.S. History, Basic Math II, Government and Politics in the U.S., Natural Science:Biology, and others. (See 1020:064) Classes are small to provide maximum opportunity for individual help.

Learning Laboratories

The Study Skills centers and the Mathematics and Writing laboratories are open to all students without charge.

- The Study Skills centers, 217 Carroll Hall and 110 Polsky Building, provide professional instruction in a variety of reading and study strategies, memory techniques, and test-taking methods as they apply to specific courses.
- The Mathematics labs, 208 Carroll Hall and 110 Polsky Building, provide professional instruction for students who are having difficulty in any entry-level mathematics course.
- The Writing labs, 212 Carroll Hall and 110 Polsky Building, offer professional instruction to students taking any course requiring writing.

Tutorial Program

Tutoring is available free of charge to help students develop academically.

- Peer tutoring is available for most freshman and sophomore courses, including Chemistry, Physics, Mathematics, Sociology, Psychology, Science, Business, and Modern Languages. Tutoring is conducted either on an individual basis or in small groups. Interested students should inquire at 215A Carroll Hall.
- Full-time undergraduate students are eligible to be peer tutors; a nationally certified training program for tutors is provided every semester.

To inquire about any of these services, come to 210 Carroll Hall, call 330-972-7087, or email devprograms@uakron.edu.

Learning Communities

Students who seek to increase their interactions with faculty and other students should consider registering for courses that are a part of a learning community. A learning community is a group of about 25 students who take two to four courses together; the faculty members integrate topics and assignments across the courses so that what is being learned in one course reinforces and complements what is being learned in the other courses. Learning communities benefit students by providing them with a peer group that has courses in common. Students can form study groups easily and are more willing to participate in classes because they know one another. Many courses in learning communities apply toward baccalaureate and associate degree requirements; some courses fulfill General Education requirements. Students in any major, including students who are undecided about a major, are welcome to participate in a learning community.

To register for a learning community talk to your academic adviser, or for more information call the University College Dean's Office at 330-972-7066.

UNIVERSITY ORIENTATION 101

The first semester at a university can be a challenging, and at times an overwhelming experience. University College offers a course which can help tum the challenges into successes. University Orientation 101 is a two-credit course which provides students with the opportunity to discover more about The University of Akron and themselves, and to learn strategies for a successful college experience. Taught by full-time faculty and administrators from across the campus, course topics include the development of time management, stress management, note-taking, test-taking and critical thinking skills; sharing strategies for effective academic planning; information about University services available to students; exposure to University cultural events; and extended orientation to library and computing resources. Students may register for University Orientation 101 during their New Student Orientation. For additional information, contact the University College Dean's Office at 330-972-7066.

Reserve Officer Training Corps (ROTC)

1500: AEROSPACE STUDIES

The Department of Aerospace Studies provides the student with an opportunity to pursue a commission in the United States Air Force while qualifying for graduation from the University of Akron. Air Force ROTC provides over 65% of the leaders for tomorrow's Air Force. These well-educated, versatile and professional officers will continue to keep the Air Force on the cutting edge of technology while providing for the national defense.

The program is designed to prepare the student to become an officer who is dedicated and responsible; critical and creative in thinking; able to communicate clearly; and skilled in effective management.

Today's Air Force is undoubtedly the best nationwide employer in the current American marketplace. Our program is open to both male and female students who will receive at least a baccalaureate degree upon graduation. Registration information may be obtained by contacting the Department of Aerospace Studies; 185 S. Forge St.; Schrank Hall South 9; Akron, Ohio 44325-6102; 330-972-7653.

Programs

Four-Year Program

First-year students of The University of Akron may pursue the four-year program. Enrollment procedures for the first two years of Air Force ROTC, known as the General Military Course (GMC), are the same as for any other university course. The GMC consists of one hour of classroom work and two hours of Aerospace Studies Leadership Laboratory each week, providing 1.5 semester credits.

Portions of the GMC may be accredited for prior completion of two or more years of high school Junior ROTC, participation in Civil Air Patrol, military school training, or prior service in any branch of the United States Armed Forces.

Upon completion of the General Military Course, cadets may compete for entry into the last two years of the program, the Professional Officer Corps (POC). If selected, cadets will be required to attend field training. Upon successful completion of field training, cadets will also be required to maintain full-time student status each semester for the last two years of the program.

Two-Year Program

The two-year program opens the door directly into the POC for those students who are already in their second year of college and would still like to take advantage of the outstanding opportunities the Air Force has to offer. As with entry into the POC from the General Military Course, this method of entry into the POC is very competitive. Two-year program applicants must also meet all qualifications described in Requirements for Admission. If selected, cadets will be required to attend field training. Upon successful completion of field training, cadets will also be required to maintain full-time student status each semester for the last two years of the program.

Applications for the two-year program should be made as early in the academic year as possible so that all requisites may be completed in time for summer field training. The POC consists of three hours of classroom work and two hours of Aerospace Studies Leadership Laboratory each week, providing three semester credits.

Field Training

In the summer prior to entering the POC, all four-year program AFROTC cadets and student applicants for the two-year program must attend field training at an Air Force base where they will learn and make use of training and leadership techniques in close contact with other cadets from across the country. The fouryear program cadet spends four weeks at an encampment, while field training for the two-year program applicant lasts five weeks. Uniforms, lodging, meals, and travel pay are provided without charge.

Flight Training

For cadets who meet the physical and testing requirements to become pilots in the Air Force, there are excellent opportunities to receive active duty flight training through Air Force ROTC. Categorization into all rated positions, including pilots and navigators, occurs during the first semester after the cadets' entry into the POC.

Voluntary Training Opportunities

In addition to mandatory training, there are numerous voluntary training opportunities for cadets to expand their Air Force knowledge and experience. The cadets and staff regularly organize base visits, aircraft orientation flights, and weapons qualification training. In addition, there are many nationally organized programs including Survival Escape Resistance and Evasion Training, Air Force Academy Free-Fall, Air Force Academy Glider Soaring, Army Airborne Training, Operation Air Force Shadow Program, and the British Exchange Pilot Training Program.

Requirements for Admission

General Qualifications

- · Be a citizen of the United States or applicant for naturalization
- Be in sound physical condition
- Be of good moral character
- Meet age requirements as follows:

AFROTC scholarship recipients must be at least 17 years of age and able to complete commissioning requirements prior to age 27.

If not on scholarship status, but designated for pilot or navigator training, be able to complete all commissioning requirements prior to age 30.

If not on scholarship status and not qualified for flying training, be able to complete all commissioning requirements prior to age 35.

Additional Qualifications for Professional Officer Course

- · Be at least 17 years of age
- Minimum GPA of 2.0
- · Interview with the Professor of Aerospace Studies
- Pass Air Force academic, fitness and medical exams
- For the four-year program cadet, complete the General Military Course or receive credit for Junior ROTC, Civil Air Patrol, military school training or prior service, and complete the four-week field training course
- For the two-year program applicant, complete the five-week field training course

Requirements for Commissioning

- Complete the POC and field training
- Earn at least a baccalaureate degree
- Agree to accept, if offered, a commission in the United States Air Force
- Agree to serve for a period of not less than four years on active duty after commissioning; or, if accepted for a flying training program, agree to serve for six years after navigator training or ten years after pilot training.

Scholarships

Air Force ROTC college scholarships are available to qualified applicants in both the two- and four-year programs. Every scholarship pays for tuition and most laboratory, textbook and incidental fees, and provides a \$200 tax free stipend each month.

All scholarships are awarded in specific degree majors, with engineering and technical majors receiving the majority. There are some scholarships offered in non-technical majors; however, these scholarships are extremely competitive. The Air Force awards scholarships on the "Whole Person Concept." This means that while test scores and GPA are important factors, they are not the only factors considered. Air Force ROTC develops leaders for the Air Force; therefore, in awarding scholarships, leadership and extracurricular activities and an interview with an Air Force officer also play large roles in the scholarship selection process.

Beyond the scholarship program run by the Air Force, The University of Akron provides additional scholarship money each year to award to students enrolled in the Air Force ROTC program. These scholarships include both cash awards and a number of room scholarships. For information on applying for any scholarships through Air Force ROTC and the Aerospace Studies Department, contact the Department of Aerospace Studies.

Uniforms and Textbooks

All Air Force ROTC uniforms and textbooks are provided by the Air Force both for on-campus courses and field training.

1600: MILITARY SCIENCE Army Reserve Officers' Training Corps (ROTC)

The University's Army Reserve Officers' Training Corps (ROTC) was established in 1919, making it one of the oldest in the country. The main goal of the program is to develop the future military leaders of our country. It provides the active Army, Army Reserve and Army National Guard with commissioned male and female officers. Army ROTC is your chance to develop leadership skills for success in your career, be it in the Army or as a civilian professional. Upon graduation with a four-year degree and ROTC, you will be leaving your alma mater as a second lieutenant in the United States Army.

A student enrolled in Army ROTC has an opportunity to study and participate in leadership and management experiences which are unique to the college curriculum. Leadership, self-discipline, responsibility and physical stamina are stressed as the student learns to plan, organize, motivate and lead others. Program goals are to develop decision-making capabilities through detailed examination of leadership factors; expand oral and written communication arts; provide some technical training in basic military skills; and develop an understanding of the relationship between the student's basic degree field and its application in the United States Army.

Programs

Four-Year Program

A full-time student enrolled in The University of Akron or Wayne College may enroll in the Army four-year program. Freshmen and sophomores enroll in the basic military course Military Science I and II (MS I, MS II) of the four-year program for two credits per semester. MS I and II classes are held two hours each week, in addition to a one and one-half-hour leadership laboratory, and cover studies in military history, leadership fundamentals, basic military skills, first aid, Leadership Assessment Program, and Army organization. Enrollment in MS I or MS II constitutes no obligation to military service or continuance into the advanced course and the credits received can be applied toward elective requirements.

A student who completes the basic course (MS I and MS II) is eligible for and may apply for enrollment into the advanced course, which may lead to a commission. Advanced course studies are held four hours per week, to include a mandatory one and one-half-hour leadership laboratory and physical training three times per week for three semester credits. The course of study includes: advanced course includes a five-week paid summer camp attended usually between the junior and senior year. A student in the advanced course is paid \$200 per month, or approximately \$2,000 per school year. Upon commissioning, the student will serve either with the Army Reserve, the National Guard, or on active duty.

Two-Year Program

A student can also enter the advanced course by attending a basic five-week military skills summer camp at Fort Knox, Kentucky, just prior to the MS III year or Junior year, or by having prior military service or training. This equals the basic course of the four-year program, and makes the student eligible to enter the advanced course as described under the four-year program.

Cadet Activities

The Department of Military Science offers numerous activities to enrich classroom instruction; provide a better understanding of the military and military life; and improve technical skills. These include the following:

- Adventure training: marksmanship, rappelling, backpacking, water survival training and white water rafting
- Social organizations
- Student organizations
- Battlefield tours
- Intercollegiate military skills competition (Ranger Challenge)

Advanced Military Training

Students enrolled in Military Science classes may volunteer for the following U.S. Army specialty schools as quotas become available. Special requirements and prerequisites must be met.

- Airborne Training
- Air Assault Training
- Mountain Warfare School
- Northern Warfare School

Requirements for Admission

Basic Course: None.

Advanced Course:

Completion of basic course, basic summer camp, or prior service.

- Pass the Army physical fitness test, and meet the Army's height and weight standards.
- Permission of the professor of military science.
- · Be in good academic standing with the University.
- Meet Army medical standards

Requirements for Commissioning

- Completion of a baccalaureate or advanced degree to include the following types of college courses:
 - Written Communications
- Human Behavior
- Computer Literacy
- Math Reasoning
- Military History
- Meet Army medical standards
- Completion of the advanced ROTC course.
- Completion of advanced summer camp normally between Junior and Senior year.
- Pass Army physical fitness test.
- Agree to fulfill a service obligation to serve as a commissioned officer on active duty, in the Army Reserve, or in the Army National Guard.

Military Science Scholarships

The Army ROTC has four-year scholarships available to high school seniors. Additionally, there are three- and two-year scholarships available on a competitive basis to students attending the University, whether or not they are enrolled in ROTC when applying for the scholarship. These scholarships provide tuition, fees, a flat rate for texts, and \$250 per month allowance to the student for up to 10 months of the school year. Scholarship students may spend three to four years on active duty. University free room and board scholarships are available to fouryear Army ROTC scholarship winners on a competitive first-come basis. A 2.5 GPA must be maintained.

Uniforms and Textbooks

Military textbooks for all ROTC courses and equipment for military training are provided free by the Department of Military Science. Uniforms are issued free to all students while enrolled in the program, but must be returned.

Financial Allowances

An advanced course cadet and scholarship students are paid a non-taxable allowance of \$250 per month for up to 10 months of the school year. A student attending basic summer camp or advanced camp is paid for travel expenses, meals, housing, and a salary.

The Professor of Military Science may also award cash stipends up to \$250 to students who excel in their academic studies. Stipends are based on academic merit, participation, and scholarship winners

The starting salary for a newly commissioned officer is approximately \$31,000 per year which increases 15 percent per year on average for the next four years. Officers receive 30 days paid vacation per year.

SPECIAL RESERVE AND NATIONAL GUARD PROGRAMS

Simultaneous Membership Program (SMP)

Members of the Reserves or National Guard who are enrolled full-time in the University may enroll in advanced ROTC if they apply for SMP membership through their unit, are accepted by the professor of military science, and meet all other admission requirements for the advanced course (MS III and MS IV). Commissioning may occur upon completion of the advanced ROTC course, and the member will serve as an officer in the Reserves or National Guard.

An SMP member receives \$250 tax-free per month while in ROTC, is promoted to an E-5 officer trainee in the reserve/guard unit and receives E-5 pay.

Army Nurse Program

The University of Akron has been selected as a primary participant in the U.S. Army Cadet Command Partnership in Nursing Education program (PNE).

- Freshmen and sophomores may enter the Army Nurse Program upon permission of the Professor of Military Science.
- University free room and board nurse scholarships are available to four-year Army ROTC nurse scholarship winners.

University Honors Program

Dale H. Mugler, Ph.D., *Master* Karyn B. Katz, Ph.D., *Associate Master*

INTRODUCTION

The University Honors Program supports high achieving and highly motivated students with challenging curriculum options, honors classes, academic scholarships, priority in registration, priority assignment to rooms in the honors residence, and enhanced computer, library, and study facilities. Honors Program students who complete the requirements of their academic majors and of the University Honors Program with cumulative grade-point averages of at least 3.40 are recognized at graduation as University Scholars.

ADMISSION

Every applicant for admission to the Honors Program is required to:

- Provide academic transcripts, test scores, or other documentation as needed.
- Submit an Honors Program application essay to the University Honors Council.
- Interview with an approved representative of the University Honors Council.

To be admitted to the Honors Program, a student must be enrolled as a full-time student in a bachelor's degree program.

A student may be admitted to the Honors Program upon graduation from high school, upon transfer from another college or university, or following an assessment of his or her academic and career record.

To be considered for admission, an applicant entering from high school must provide evidence of at least two of the following:

- · High school grade-point average of 3.5 or above.
- Class rank within the highest 10 percent.
- Admissions test scores (ACT 27 or SAT 1200) ranking in the highest 10 percent nationally.

Other applicants, whether transfer students, continuing undergraduates, or students who have been away from school for several years, are evaluated in terms of previous grades and other appropriate documented accomplishments.

HONORS CURRICULUM

Academic Majors

An Honors Program student completes the requirements for a major in one of the colleges awarding bachelor's degrees. The student enrolls in honors classes, as available, within the major. The Senior Honors Project counts as advanced course work within the major.

Honors Distribution Requirement

In place of The University of Akron General Education requirements (except for physical education), an Honors Program student completes an individually selected set of courses to meet the Honors Distribution Requirement. With the approval of the Honors Council, the student completes a balance of course work in the humanities, social sciences, and natural sciences, enrolling in honors sections of those classes when available. The Honors Distribution Requirement consists of the following four Group requirements totalling at least 38 credits:

Group I (The Humanities)

Six or more credits in courses offered by these departments:			
3200: Classics	3400 History	3400: World Civ	

3200: Classics 3210: Greek 3220: Latin	3400: History 3400: Humanities in the Western Tradition	3400: World Civilizations 3600: Philosophy
3220. Laun	vvestern madition	

Group II (Languages and the Arts)

Six credits of English Composition (Honors) and/or other English; and three or more credits from the other departments listed below:

3300: English	3530: German	7500: Music
3500: Arabic	3550: Italian	7600: Communication
3500: Chinese	3570: Russian	7700: Sign Language
3500: Japanese	3580: Spanish	7800: Theatre
3520: French	7100: Art	7900: Dance

Group III (The Social Sciences)

Six or more credits in courses offered by the departments below:

3230: Anthropology	3250: Economics	3700: Political Science
3860: Sociology	3350: Geography and Planning	3750: Psychology

Group IV (The Natural Sciences and Mathematics)

Three or more credits in mathematics, computer science, or statistics; and six or more credits of science courses, including a lab.

3100: Biology 3150: Chemistry 3370: Geology	3450: Mathematics 3460: Computer Science	3470: Statistics 3650: Physics	
---	---	-----------------------------------	--

Honors Colloquia

All Honors Program students participate in the Honors Colloquium series: Humanities in the sophomore year, social sciences in the junior year, natural sciences in the senior year. These one-semester, two-credit courses are interdisciplinary seminars open only to Honors Program students.

1870:250	Honors Colloquium: Humanities	(during second year; during first year if majoring in Nursing or Dietetics)
1870:360	Honors Colloquium: Social Sciences	(during third year; during second year if majoring in Nursing or Dietetics)
1870:470	Honors Colloquium: Natural Sciences	(during fourth year; during third year if majoring in Nursing or Dietetics)

Senior Honors Project

The Honors Program student is required to complete a Senior Honors Project. This capstone of the honors student's academic and pre-professional studies begins with a choice of faculty advisor and submission of a proposal in the junior year. It is a chance to work intensively, with the guidance of a faculty sponsor, on a thesis, investigation, production, or problem of the student's choice. In designing, completing, and reporting on their Senior Honors Projects, these students have unique opportunities to apply their learning and test their abilities. Students should register for senior honors project course credit, totaling at least two credits

Other Features

Scholarships

Students admitted to the Honors Program are eligible for academic scholarships awarded by the University Honors Council, ranging from partial awards, covering part of each year's tuition and fees, to the Lisle M. Buckingham Scholarships, which provide tuition and general fees, room and board, for up to eight semesters.

Advising

In each academic department an Honors Preceptor advises Honors Program students, from orientation until graduation. With this preceptor's guidance, the student plans the Honors Distribution Requirement and schedules what is needed to meet departmental, college, and Honors Program degree requirements.

Priority in Registration and Residence Assignment

Honors Program students are in the first group permitted to register for classes every semester. New Honors Program students also have priority in residence hall assignments within Gallucci Hall, which also contains the Honors Program offices, computer facilities, seminar rooms, individual and group studies, and study and meeting rooms for the use of commuting students.

Open Classrooms

An Honors Program student, with the instructor's permission, may attend undergraduate classes or lectures for which the student is not formally enrolled. Free access is available.

Access to Graduate Courses

With the permission of the preceptor and the instructor, an Honors Program student may enroll in graduate courses for either undergraduate or graduate credit.

The University Honors Council

Consisting of faculty representing the seven colleges granting the bachelor's degree, two Honors Program students, the Director of Admissions, the Director of Student Financial Aid, and the Master and Associate Master of the Honors Program, the Honors Council is responsible for all decisions on admissions to the Honors Program, the awarding of Honors Program scholarships, the approval of each student's Honors Distribution Requirement and Serior Honors Project, and the definition of policies and procedures appropriate to the mission of the University Honors Program.

Bachelor of Arts in Interdisciplinary **Studies**

Students pursuing this degree must select a college of residence, devise a proposed program of study with an adviser in the college selected. The proposal must be approved by the University Interdisciplinary Studies Committee.

This degree may be pursued in the Community and Technical College, Buchtel College of Arts and Sciences and the College of Fine and Applied Arts.

Required:

- · A minimum of 128 semester credits with a minimum grade point average of 2.0 at The University of Akron and a 2.0 average in all college level work.
- Completion of 42 credits in the General Education program as required of all baccalaureate students.
- A minimum of 47 credits in 300- and/or 400-level courses.
- Core requirements A minimum of 63 credits, divided among three areas of • study selected by the student with the advice and approval of the appropriate academic advisers. The emphasis may be selected among the participating degree-granting colleges.
- · Emphasis The student must select an area of emphasis in a four-year program which will be designated as the college "host." He/she must take 21-28 credits in an emphasis program.
- Cognates The student must take at least 21 hours in two other areas in an individually structured, interdisciplinary or disciplinary program of study outside the student's emphasis field. The student proposes courses that focus in a common theme, which is a reasonable program of study to meet his/her unique educational goals. The 63 credits will include 12 credits of 300- and/or-400 level courses in each of two of the student's emphasis or cognate areas.
- A minimum of 14 credits of course work in a foreign culture.

There are two options for courses that would be applicable to this area:

Option A - Completion of a second year of a foreign language on the University level or by demonstrating equivalent competency. The competency test is to be approved by the Department of Modern Languages.

Option B --- Some courses currently listed in the Undergraduate Bulletin may be used to fulfill the 14-credit minimum:

		Credits
3230:358	Indians of North America	3
3250:461	Principles of International Economics	3
3300:382	Contemporary Canadian Literature	3
3350:353	Latin America	3
3350:356	Europe	3
3350:358	Russia and Associated States	3
3350:360	Asia	3
3350:363	Africa South of Sahara	3
3400:301	Mao's China	3
3400:303	Japan	3
3400:325	Women in Modern Europe	3
3400:336	Russia since 1801	3
3400:337	France from Napoleon to DeGaulle	3
3400:416	Modem India	3
3400:473	Latin America: The Twentieth Century	3
3400:475	Mexico	3
3400:476	Central America and the Caribbean	3
3400:481	History of Canada	3
3700:320	Britain and the Commonwealth	3
3700:321	Western European Politics	3
3700:322	Politics of Post-Communist States	3
3700:323	Politics of China and Japan	3
3700:327	African Politics	3
3700:330	Canadian Politics	3
3700:405	Politics in the Middle East	3
3700:425	Latin American Politics	3
6800:305	International Business	3
7100:301	Medieval Art	3
7100:302	Art in Europe during the 17th and 18th Centuries	3
7100:303	Renaissance Art in Italy	3
7100:304	Art in Europe during the 19th Century	3
7100:306	Renaissance Art in Northern Europe	3
7600:325	Intercultural Communication	. 3

This list is not exhaustive. Students may propose other courses.

Buchtel College of Arts and Sciences

Roger B. Creel, Ph.D., *Dean* William A. Francis, Ph.D., *Associate Dean* Devinder M. Malhotra, Ph.D., *Associate Dean* Charles B. Monroe, Ph.D., *Associate Dean*

OBJECTIVES

Buchtel College of Arts and Sciences serves the objectives of the University, which state that learning may be procured, preserved and enlarged. More particularly, the College seeks to foster:

- The commitment to humanity—that loyal devotion to the heritage contained in those disciplines growing out of the ancient liberal arts which teach limitations and potentialities. The College seeks to provide an appropriate environment for students to acquire an ability to evaluate, integrate and understand the conditions of human existence, to understand themselves in the natural world and in a particular civilization or society. No course or combination of courses can ensure such understanding, and there is no schooling that can guarantee wisdom. Therefore, the College requires the student to study ideas and experiences that are the subject matter of a variety of disciplines:
 - the nurture of civility—those actions whereby virtue, the advancement of society, and wise and humane government are encouraged;
 - the advancement of learning—that substantive knowledge discovered and cultivated by critical curiosity, tested by experimentation, propagated by instruction and capable of affecting lives so that all may in a free society exercise responsible liberty. The most enduring contribution which the College can make is to help individuals acquire the skill, motivation and breadth of knowledge to continue their intellectual development throughout their lives.

The College recommends each student for the appropriate bachelor's, master's or doctoral degrees in accordance with the level of accomplishment.

Buchtel College is one of 10 degree-granting colleges at the University. Its name truthfully implies that its traditions date back farther than those of the other undergraduate colleges, since the University itself is an outgrowth of Buchtel College, a liberal arts institution founded in 1870.

When Buchtel College became the Municipal University of Akron the original name was retained in the College of Liberal Arts which was subsequently renamed Buchtel College of Arts and Sciences. Then, and now, the liberal arts goal has been to offer broad training to the college student so that the student can prosper in life and sustain a creative appreciation of the arts and sciences.

The College is comprised of the following three administrative divisions.

Humanities Division

It is concerned with the intellectual traditions that have formed human nature and with their application to the present and future growth of the human being by affording insights into contemporary life and by promoting the development of the individual as a creative, critical and articulate person through the study of the classics, languages, literature and philosophy.

Natural Sciences Division

It is the most professionally oriented division in this College, with the highest number of graduates continuing their education in specific areas of advanced study. In undergraduate years, a natural sciences student has a course of study with a strong emphasis in biology, chemistry, computer science, geology, mathematics, physics or statistics.

Social Sciences Division

It stresses intelligent participation in community affairs through education in economics, geography, history, political science, psychology and sociology.

A*S Career Program

Dr. James Egan, Program Director Jo Anne Stewart, Vocational Coordinator, Olin Hall 325 B, 330-972-6498

The A&S Careers Program administration offers job-related services to Arts and Sciences undergraduate majors, minors and graduate students. The Program is based on the belief that the vocational skills and the general marketability of liberal arts degrees are, in part, the responsibilities of academic departments. It is the Program's mission, therefore, to create links between students, alumni and local organizations so students may gain knowledge of and practical experience in given careers. To accomplish this, the Program provides a lending library of career-related publications, a computer workroom for resume writing and employment research, volunteer, paid and for-credit internship placement both on and off campus, and department-specific mentoring systems for exploration of vocational possibilities.

For more information, contact the A&S Careers Program, Olin Hall 325 A-D, 330-972-5714 or fax 330-972-2177 or email careersprogram@uakron.edu.

COLLEGE REQUIREMENTS

Admission

To be admitted to the College the student must have completed 30 credits of work and have the approval of the Dean of the College.

Degrees Awarded

Humanities Division: Bachelor of Arts.

Natural Sciences Division: Bachelor of Arts, Bachelor of Science.

Social Sciences Division: Bachelor of Arts, Bachelor of Science in Geography/Cartography, Bachelor of Science in Labor Economics, Bachelor of Science in Political Science/Criminal Justice, Bachelor of Science in Political Science/Public Policy Management.

Interdisciplinary Studies: Bachelor of Arts in Interdisciplinary Anthropology.

Baccalaureate Degrees

A student transferring into the College must have completed the equivalent of, or taken, 3300:111,2 English Composition I, II; three credits of mathematics or statistics earned in the Department of Mathematics and Computer Sciences or the Department of Statistics; and the remainder of the lower-division General Education requirement.

Requirements for the bachelor's degree include:

- Completion of the General Education requirement.
- Three credits of mathematics or statistics earned in the the Department of Mathematics and Computer Sciences or the Department of Statistics.
- A minimum of 47 credits (exclusive of workshops and General Education courses) consisting of either:
 - 300/400-level courses both in and outside the student's major;
 - any courses outside major department as specified in and approved by the student's major adviser and the department or division head (permission should be obtained prior to enrollment), except workshops and General Education courses.
- · Demonstration of ability to use English and another language:
 - for English, this ability will be shown by the completion of the General Education sequence of 3300:111,2 English Composition I, II;
 - for the other language, this ability will be shown by the completion of a second year of a foreign language on the University level or by demonstrating equivalent competence through a test approved by the Department of Modern Languages.
- Completion of requirements in a major field of study (see **Programs of Instruction**) and the recommendation of the student's major department.
- Attaining a minimum grade-point average of 2.00 in all work attempted in the major field at The University of Akron. (Chemistry 2.3, Political Science 2.2)
- Attaining a minimum grade-point average of 2.00 in all work in the major field, including transfer credits. (Chemistry 2.3, Political Science 2.2)
- Fulfilling the University requirements for a baccalaureate degree set forth in **Section 3** of this Bulletin.

Any student who wishes to receive a second baccalaureate degree must complete 32 credits of coursework in addition to the credits necessary for the first degree; 16 of the 32 credits must be in 300/400-level courses or other approved courses.

Major Field

To qualify for graduation, a student must concentrate or major in the work of either a department or a division of the College. Part or all of these credits may be taken in specifically required courses depending upon the major chosen.

The longer and more professionally oriented majors should be started during the first year when the student is still under the guidance of the Office of Academic Advising Services.

Ordinarily a student will select a department in which to major. The exact requirements for each major will be found on the following pages. Some departments offer more than one type of major. No minor is required; but in some cases, the major includes certain courses in other departments. As soon as the student is transferred to the college, the chair of the student's major department or designate becomes the academic adviser.

A student who desires a broader education than the departmental major offers may elect a divisional major and qualify in the general area of the humanities, natural sciences or social sciences. The exact requirements for these majors will be found on the following pages. As soon as the student contemplating a divisional major is transferred to the College, the chair of the student's major division becomes the academic adviser.

Preparation for High School Teaching

A student interested in a teaching career on the high school level may qualify for secondary school certification by the Ohio State Department of Education while enrolled in Buchtel College of Arts and Sciences. Generally the arts and sciences major subject will also constitute a teaching major, although a second teaching field usually is required. The education and psychology courses required for the secondary school teaching certificate may be taken as electives toward the arts and sciences degrees. Additional elective credits will generally enable the student to meet the requirement of a second teaching field, without exceeding the credits necessary for graduation.

The number of credits in a teaching field required for certification can be determined by referring to **Section 4**, College of Education, "Teaching Fields," located in this Bulletin.

Minor Areas of Study

For an explanation of minor areas of study in Buchtel College of Arts and Sciences, see Section 5 of this Bulletin.

Interdisciplinary and Certificate Programs of Study

For an explanation of interdisciplinary and certificate programs of study, see **Section 6** of this Bulletin.

PROGRAMS OF

Bachelor of Arts in Interdisciplinary Studies

This degree meets the needs of students who have an interdisciplinary academic goal. It expands opportunities for non-traditional students to complete their degrees at The University of Akron by allowing them to combine courses from various colleges to design a program. Students pursuing this degree must select a College of residence, devise a proposed program of study with an advisor in the college selected. The proposal must be approved by University Interdisciplinary Studies Committee. For more information on the program, see page 97.

3100: Biology

Bachelor of Science

- The General Education requirement and the second year of a foreign language.
- Core requirements: All majors for a Bachelor of Science in Biology take the sequence of courses listed below, which will provide an understanding of the fundamentals of modern biology.

		Creaks
3100:111,2	Principles of Biology I, II	8
3100:211,2	General Genetics, Lab	4
3100:217	General Ecology	3
3100:316	Evolutionary Biology	3
3100:311	Cell and Molecular Biology	4
3150:151,3,2	Principles of Chemistry I, II, and Laboratory	7
3150:154	Qualitative Analysis	2
3150:263,4,5,6	Organic Chemistry I, I/Lab I, II	10
3450:145	College Algebra	4
3450:149	Precalculus Mathematics	4

 A minimum of 40 credits in biology is necessary to qualify for a Bachelor of Science degree. The minimum 18 credits past the biology core curriculum (above) to satisfy this requirement must be at the 300/400 level. Additional courses in biology or other sciences are usually necessary to satisfy the admission requirements of graduate and professional schools for advanced work and professional studies.

Recommended:

Be

3460:125	Descriptive Computer Science	2
3470:261,2	Introductory Statistics I,II	4

 A student majoring in biology should consult a member of the biology faculty during the first year.

Areas of Specialization (Optional)

If a student wishes to obtain a B.S. degree with a designated Area of Specialization within Biology, the student must take the required courses listed below for that specific area. Additional courses are listed as electives that may be taken to further strengthen a student's knowledge in a particular area. The area of specialization will appear on the student's transcript.

Most of these courses will be taken during the third or fourth years:

Flora and Taxonomy	3
Mycology	4
or	
Phycology	4
Plant Development	4
or	
Plant Morphology	4
Plant Anatomy	3
Food Plants	2
Economic Botany	2
	Flora and Taxonomy Mycology or Phycology Plant Development or Plant Morphology Plant Anatomy Food Plants Economic Botany

Ecology/Evolution Specialization

At least one of	of the following:	Credits		
3100:412	Advanced Ecology	3		
3100:423	Population Biology	3		
At least one of	of the following:			
3100:427	Aquatic Ecology	4		
3100:430	Community/Ecosystem Ecology	4		
At least one of	of the following:			
3100:418	Field Ecology	4		
3100:421	Tropical Field Biology	4		
3100:426	Wetland Ecology	4		
At least one of	of the following:			
3100:342	Flora and Taxonomy	3		
3100:440	Mycology	4		
3100:443	Phycology	4		
3100:445	Plant Morphology	4		
3100:451	General Entomology	4		
3100:453	Invertebrate Zoology	4		
3100:455	Ichthyology	4		
3100:456	Ornithology	4		
3100:457	Herpetology	4		
3100:458	Vertebrate Zoology	4		
At least one of	of the following:			
3100:406	Principles of Systematics	3		
3100:428	Biology of Behavior	2		
3100:464	Comparative Animal Physiology	4		
A course in st	tatistics and in calculus is strongly recommended.			

Microbiology Required:

3100:331	Microbiology
3100:433	Pathogenic Bacteriology
	or
3100:435	Virology
3100:437	Immunology
Electives:	
3100:440	Mycology
	or
3100:443	Phycology
3100:454	Parasitology
3100:481	Advanced Genetics
3150:401,2	Biochemistry I, II

Animal Physiology

Requirer

3100:455

3100:456

3100:457

Ichthyology

Ornithology

Herpetology

noquirou.	
3100:461,2	Human Physiology
3100:464	Comparative Animal Physiology
3100:465	Advanced Cardiovascular Physiology
	or
3100:469	Respiratory Physiology
	or
3100:468	The Physiology of Reproduction
Electives:	
3100:365	Histology
3100:401,2	Biochemistry
3100:466	Vertebrate Embryology
3100:467	Comparative Vertebrate Morphology
3100:484	Pharmacology
Zoology	
Required:	
3100:428	Biology of Behavior
3100:453	Invertebrate Zoology
	or
3100:458	Vertebrate Zoology
3100:464	Comparative Animal Physiology
3100:466	Vertebrate Embryology
	or
3100:467	Comparative Vertebrate Morphology
Electives:	
3100:365	Histology
3100:421	Tropical Field Biology
3100:451	General Entomology
3100:454	Parasitology

Preparation for High School Biology Teaching

For certification, additional courses in the College of Education are required. See the College of Education and the Buchtel College of Arts and Sciences "Preparation for High School Teaching," **Section 4** of this Bulletin.

•	The followi	ng courses should be taken:	Credits
	3100:130	Principles of Microbiology	3
		or	
	3100:331	Microbiology	4
	3100:265	Introductory Human Physiology	4
	3100:342	Flora and Taxonomy	3
		or	
	3100:445	Plant Morphology	4
	3100:453	Invertebrate Zoology	4
		or	
	3100:458	Vertebrate Zoology	4
	Additional cou	rses that may be taken:	
	3100:426	Wetland Ecology	4
	3100:428	Biology of Behavior	2
	3100:440	Mycology	4
		or	
	3100:443	Phycology	4
	3100:464	Comparative Animal Physiology	4

Preparation for Professional School

(Pre-medical, pre-dental, pre-veterinary and pre-pharmacy students)

The following courses should be taken:		
3100:461,2	Human Physiology	8
	or	
3100:466	Vertebrate Embryology	4
	and	
3100:467	Comparative Vertebrate Morphology	4
3470:261	Introductory Statistics I	2
3650:261,2	Physics for Life Sciences I and II	8
3450:221	Analytical Geometry-Calculus I	4
	or	
3450:215	Concepts of Calculus I	4
Additional courses	s that may be taken:	
3100:365	Histology	3
3100:465	Advanced Cardiovascular Physiology	3
3100:468	The Physiology of Reproduction	3
3100:469	Respiratory Physiology	3
3150:401,2	Biochemistry I, II	6

Bachelor of Science in Medical Technology

This program has been suspended effective Fall Semester 2000. No new students will be admitted into the program.

Bachelor of Science in Cytotechnology

This program has been suspended effective Fall Semester 2000. No new students will be admitted into the program.

Bachelor of Arts

3

3

6 4

4

2

4

4 4

4

4

4

4

- · The General Education requirement and the second year of a foreign language.
- · At least 17 credits in the humanities or social sciences.
- · At least 24 credits in the biological sciences which must include:

3100:111.2	Principles of Biology I. II	8
3100:211	General Genetics	3
3100:217	General Ecology	3
3100:311	Cell and Molecular Biology	4
	or	
3100:331	Microbiology	4
	or	
3100:130	Principles of Microbiology	3
3100:316	Evolutionary Biology	3

- Required chemistry courses: 3150:151, 152, and 153 (Principles of Chemistry and Laboratory), as well as 3150:154 (Qualitative Analysis).
- · Required math course: 3450:149 (Precalculus).

3150: Chemistry

Statement of Policies—Admission

For students enrolled at The University of Akron and for students wishing to transfer directly to Buchtel College of Arts and Sciences from other institutions, the following criteria must be satisfied for admission to the Department of Chemistry:

- The student must be admissible to Buchtel College of Arts and Sciences.
- Principles of Chemistry I and II, Qualitative Analysis, Organic Chemistry Lecture I, Analytical Geometry and Calculus I and II, and Elementary Classical Physics I must be completed, and the grades must have been recorded. For the Bachelor of Arts in Chemistry program, Elementary Classical Physics I may be replaced by Physics for Life Sciences I.
- A minimum grade-point average of 2.30 must be met in all university work, including transfer credits.
- A minimum grade-point average of 2.30 must be met in all chemistry coursework, including transfer credits.
- A minimum grade-point average of 2.30 must be met in all chemistry coursework on The University of Akron campus.
- A minimum grade-point average of 2.00 must be met in all work in mathematics, including transfer credits.
- A minimum grade-point average of 2.00 must be met in all work in physics, including transfer credits.

Only credits earned at an accredited institution of postsecondary education, as recognized by The University of Akron, will be considered for transfer credit, and only those grades will be considered in determining the above grade-point averages. Note, however, that transfer grades are never used in calculating a student's official grade-point average.

Freshman students who are admitted unconditionally to the chemistry program are exempted from the above requirements.

Retention

Students in the chemistry programs must maintain a minimum grade-point average of 2.30 overall and a minimum of 2.30 grade-point average in chemistry courses in order to remain in good standing in the program. A student who fails to maintain the 2.30 cumulative average, including transfer credits, will be placed on academic probation. Failure to raise the average to 2.30 in a period of one semester or one 10-week summer session will result in dismissal from the program. The student may not apply for readmission for at least one semester.

A student receiving a grade below C- in a required chemistry course will be required to repeat the course.

Graduation

The student must earn a 2.30 cumulative grade-point average in chemistry coursework on The University of Akron campus and a 2.30 cumulative gradepoint average for all chemistry coursework including transfer credits.

Grades below C- obtained in any course at other institutions will not apply toward a chemistry degree at The University of Akron. Grades below C- obtained in chemistry courses will not apply toward the chemistry degree.

The student must earn a 2.30 cumulative grade-point average in all degree coursework.

Bachelor of Science

· The General Education requirement and the second year of a foreign language.

 Core 	Requirement:
--------------------------	--------------

core nequirer	nent.	Credits
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry Laboratory	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3150:313	Physical Chemistry Lecture I	3
3150:314	Physical Chemistry Lecture II	3
3150:380	Advanced Chemistry Laboratory I	2
3150:381	Advanced Chemistry Laboratory II	2
3150:423	Analytical Chemistry 1	3
3150:424	Analytical Chemistry II	3
3150:472	Advanced Inorganic Chemistry	3
3150:480	Advanced Chemistry Laboratory III	2

At least seven	credits from the following:	Credits
3150:401	Biochemistry Lecture	3
3150:402	Biochemistry Lecture II	3
3150:463	Advanced Organic Chemistry	3
3150:497	Honors Project in Chemistry (may be repeated for a total of 8 credit	s) 1-2
3150:498	Special Topics: Chemistry (may be repeated for a total of 8 credits)	1-2
3150:499	Research Problems (may be repeated for a total of 8 credits)	1-2
3650:481	Methods of Mathematical Physics I	3
9871:401/501	Introduction to Elastomers	3
9871:402/502	Introduction to Plastics	3
9871:407/507	Polymer Science	4
9871:411	Molecular Structure and Physical Properties of Polymers I	3
9871:412	Molecular Structure and Physical Properties of Polymers II	2
9871:413	Molecular Structure and Physical Properties of Polymers III	2

Subject to departmental and Graduate School approval, senior-level students may take graduatelevel chemistry courses for undergraduate credit. Such courses are accepted in lieu of 400-level courses.

Mathematics:		
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
Physics:		
3650:291,2	Elementary Classical Physics I, II	8
Recommende	d:	
3460:201	Introduction to FORTRAN Programming	3

 Graduates of the Bachelor of Science program receive a degree certified by the American Chemical Society.

Bachelor of Science in Chemistry - Polymer Option

- · The General Education requirement and the second year of a foreign language.
- · Core Requirement:

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry Laboratory	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3150:313	Physical Chemistry Lecture I	3
3150:314	Physical Chemistry Lecture II	3
3150:380	Advanced Chemistry Laboratory	2
3150:381	Advanced Chemistry Laboratory II	2
3150:423	Analytical Chemistry I	3
3150:424	Analytical Chemistry II	3
3150:472	Advanced Inorganic Chemistry	3
Polymer Cours	Ses:	
9871:407	Polymer Science	4
9871:401	Introduction to Elastomers	3
	or	
9871:402	Introduction to Plastics	3
9871:499	Research Problems in Polymer Science	3
Mathematics:		
3450:221	Analytical Geometry-Calculus I	4
3450:222	Analytical Geometry-Calculus II	4
3450:223	Analytical Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
Physics:		
3650:291,2	Elementary Classical Physics I and II	8
Graduates of t	the Bachelor of Science in Chemistry — Polymer Option	receiv

Graduates of the Bachelor of Science in Chemistry — Polymer Option receive a degree certified by the American Chemistry Society

Bachelor of Arts

The General Education requirement and the second year of a foreign language.

•	Chemistry:		Credits
	3150:151	Principles of Chemistry !	3
	3150:152	Principles of Chemistry Laboratory	1
	3150:153	Principles of Chemistry II	3
	3150:154	Qualitative Analysis	2
	3150:263	Organic Chemistry Lecture I	3
	3150:264	Organic Chemistry Lecture II	3
	3150:265	Organic Chemistry Laboratory	2
	3150:266	Organic Chemistry Laboratory II	2
	3150:313	Physical Chemistry Lecture I	3
	3150:314	Physical Chemistry Lecture II	3
	3150:380	Advanced Chemistry Laboratory I	2
	3150:423	Analytical Chemistry I	3
	3150:424	Analytical Chemistry II	3
•	At least five cr	edits from the following:	
	3150:381	Advanced Chemistry Laboratory I	2
	3150:401	Biochemistry Lecture I	3
	3150:402	Biochemistry Lecture II	3
	3150:463	Advanced Organic Chemistry	3
	3150:472	Advanced Inorganic Chemistry	3
	3150:480	Advanced Chemistry Laboratory III	2
	3150:497	Honors Project in Chemistry (may be repeated for a total of 8 credits) 1-2
	3150:498	Special Topics: Chemistry (may be repeated for a total of 8 credits)	1-2
	3150:499	Research Problems (may be repeated for a total of 8 credits)	1-2
	9871:401/501	Introduction to Elastomers	3
	9871:402/502	Introduction to Plastics	3
	9871:407/507	Polymer Science	4
	9871:411	Molecular Structure and Physical Properties of Polymers I	3
	9871:412	Molecular Structure and Physical Properties of Polymers II	2
	9871:413	Molecular Structure and Physical Properties of Polymers III	2
•	Physics:		
	3650:291,2	Elementary Classical Physics I and II or	8
	3650:261,2	Physics for the Life Sciences I and II	8
•	Mathematics:		
	3450:149	Precalculus Mathematics	4
	3450:221,2	Analytic Geometry-Calculus I and II	8
		(or equivalent)	
•	Recommende	d:	
	3460:201	Introduction to FORTRAN Programming	3

Cooperative Education Program in Chemistry

Qualifications

Arrangements for entry into the program are on an individual basis and are initiated by the student during the second year of undergraduate study. Full-time B.S. chemistry majors at The University of Akron must meet the following requirements:

- Satisfactory completion of 60 credits with a quality point average of at least 2.3 in chemistry courses and on schedule in their curriculum.
- Acceptance by a cooperative education coordinator or director following a series of interviews.

Part-time students must have completed 60 credits with a 2.3 average and be on schedule in their curriculum. They are expected to become full-time students while not on their co-op job.

Transfer students must have preparation equivalent to the minimum requirements for The University of Akron students and must have completed at least one semester of full-time study at The University of Akron.

Placement in an industrial or other position is not guaranteed, and foreign students should recognize that many companies require U.S. citizenship or possession of a permanent visa. In any case, final acceptance of a student for any position is the decision of the employer.

Schedule

The work-study schedule for students in the co-op program is as follows:

Year	Fall	Spring	Summer
1	School	School	Vacation/School
2	School	School	Vacation/School/Work
3	School	Work	School
4	Work	School	Work
5	School	School	_

Admission to Program

Interested students should attend a Cooperative Education orientation session. Students will be expected to remain with their employer for all co-op work periods in order to provide a progression of experience and responsibility. Employment must have approval of the department and the Cooperative Education director, but the University does not guarantee employment.

Registration

Students register for Cooperative Work Periods in the same manner that a student registers for any other University courses. The course is:

3000:301 Cooperative Education

A registration fee for each work period is charged to offset the expenses of administering the Co-op Program. Upon completion of a work period, a statement will appear on the student's official transcript listing the course number and title. In place of a grade, "credit" or "no credit" will be given, depending upon the student's satisfactory or unsatisfactory completion of the following:

- · Work performance as evaluated by the employer.
- Submission of a written Work Report and its approval by the Cooperative Education staff.
- · Submission of a Cooperative Work Period Summary Form.

3200: Classical Studies, Anthropology and Archaeology

3200: Classics; 3210: Greek; 3220: Latin; 3230: Anthropology; 3240: Archaeology

Bachelor of Arts

Classical Languages

The General Education requirement.

At least 39 de	epartmental credits including the following:	Credits
3200:289	Mythology of Ancient Greece	3
3200:361	Literature of Greece	3
3200:362	Literature of Rome	3
3240:313	Archaeology of Greece	3
3240:314	Archaeology of Rome	3
Two of the fo	blowing courses:	
3400:307	The Ancient Near East	3
3400:308	Greece	3
3400:313	The Eastern Roman Empire (324-1453)	3
3400:317	Roman Republic	3
3400:318	Roman Empire	3
	Electives in Classics	6

- Successful completion of a comprehensive examination during the final term
 of the senior year shall be required of students who enter the University in the
 Fall 1999 and thereafter. This examination shall comprise both written and oral
 components, shall be based on course work and an outside reading list, and
 shall be adjusted for each student's particular course of study. It shall be graded on a pass/fail basis.
- Language credits (a minimum of four semesters of either Greek or Latin; 12 credits) must be above the 200 level in order to be included in the 39 credits. In the case of a Latin major, three credits must be taken during the senior year.
- The student wishing to be certified for public school teaching with Latin as the principal teaching field must complete the state requirements in that language.

In addition, the required credits in a second academic teaching field must be completed. See **Section 4**, College of Education, "Teaching Fields," located in this Bulletin.

Classical Civilization

• The General Education requirement and the second year of a foreign language.

•	At least 36	departmental credits including the following:	Credits
	3200:289	Mythology of Ancient Greece	3
	3200:361	Literature of Greece	3
	3200:362	Literature of Rome	3
	3240:313	Archaeology of Greece	3
	3240:314	Archaeology of Rome	3
		One of the following courses:	
	3400:307	The Ancient Near East	3
	3400:313	The Eastern Roman Empire	3
•	Choose nir	e credits from the following:	
	3400:308	Greece	3
	3400:317	Roman Republic	3
	3400:318	Roman Empire	3
	3200:230	Sports and Society in Greece and Rome	3
	3200:401	Egyptology I	3
	3200:402	Egyptology II	3
		Electives in Classics, Ancient Philosophy or Cultural Anthropology	9

· Successful completion of a comprehensive examination during the final term of the senior year shall be required of students who enter the University in the Fall 1999 and thereafter. This examination shall comprise both written and oral components, shall be based on course work and an outside reading list, and shall be adjusted for each student's particular course of study. It shall be graded on a pass/fail basis.

It is strongly recommended that a major in classical civilization fulfill the foreign language requirement by taking two years of Greek or Latin.

Bachelor of Arts in Interdisciplinary Anthropology

This interdisciplinary program allows the student the flexibility to construct a program of study to match interests in four fields of Anthropology. To do so, students are required to complete course work in departments other than Anthropology.

- The General Education requirement and the second year of a foreign language.
- Core requirements 20 credits

3230:150	Cultural Anthropology	4
3230:151	Human Evolution	4
3230:359	Anthropology in the 21st Century	3
3230:460	Qualitative Methods: Basis of Anthropological Research	3
3240:250	Introduction to Archaeology	3
3300:371	Introduction to Linguistics	3

· Concentration Electives - a minimum of one course each from three of the following four fields for a total of 15 credits

Archaeological

3230:472	Special Topics: Anthropology — Field School	3
3240:356	Archaeology of the Americas	3
3370:101	Physical Geology	4
3370:324	Sedimentation and Stratigraphy	4
3370:360	Introduction to Invertebrate Paleontology	4
3370:405/505	Archaeological Geology	3
3370:462	Advanced Paleontology	3
Biological		
3100:111, 112	Principles of Biology	8
3100:217	General Ecology	3
3100:315, 316	Evolutionary Biology and Discussion	4
3100:428,429	Biology of Behavior, Lab	4
3100:454	Parasitology	4
3100:466	Vertebrate Embryology	4
Cultural		
3230:251	Human Diversity	3
3230:357	Magic, Myth and Religion	3
3230:370	Cultures of the World	3
3230:397	Anthropological Research	3
3230:457	Medical Anthropology	3
3230:463	Social Anthropology	3
3230:472	Special Topics in Anthropology: Area Studies	3
3850:421	Racial and Ethnic Relations	3
3850:460/560	Sociological Theory	4
Linguistics		
3300:470	History of the English Language	3
3300:489	Seminar in English: Sociolinguistics	3
3300:489	Seminar in English: Topics in Native American Linguistics	3
3600:481	Philosophy of Language	3

Program Electives - a minimum of 11 credits from the following four fields. ٠ Students are urged to concentrate in two fields.

Archaeological		Credits
3010:201	Introduction to Environmental Studies	3
3350:305	Maps and Map Reading	3
3200:401, 402	Egyptology I and II	6
3200:404, 405	Assyriology	6
3200:407, 408	Ancient Near Eastern Archaeology	6
3240:313	Archaeology of Greece	3
3240:314	Archaeology of Home	3
3350:310	Physical and Environmental Geography Cartography	3
3350.340	Soil and Water Field Studies	3
3370.102	Historical Geology	4
3370:122	Mass Extinctions in Geology	1
3370:127	Ice Age and Ohio	1
3370:128	Geology of Ohio	1
3370:130	Geologic Record of Climate Change	1
3370:310	Geomorphology	3
3370:411	Glacial Geology	3
3400:307	Ancient Near East	3
3400:308	Greece	3
3400:317	Roman Republic	3
3400:318	Roman Empire	3
Biological		
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3100:211, 212	General Genetics & Laboratory	4
3100:381	Human Genetics Biology of Rohm int & Lohamton /	2
3100.426, 425	Vertebrate Zoology	4
3100:467	Comparative Vertebrate Morphology	4
Cultural	Indiana of Pourth America	
3230.300	Indians of South America	3
3230.330	Special Tables: Anthenedia	3
3250:472	Economic Development and Planning for Linderdeveloping Countries	3
3300:350	Black American Literature	, 3 , 7
3300:489	Seminar in English: American Indian Tales	3
3350:320	Economic Geography	3
3350:353	Latin America	3
3350:356	Europe	. 3
3350:360	Asia	3
3350:363	Africa South of the Sahara	3
3350:375	Geography of Cultural Diversity	2
3400:319	Medieval Europe 500-1200	3
3400:320	Medieval Europe 1200-1500	3
3400.325	Native North American History	3
3400:416	Modern India	3
3400:472	Latin America: Origins of Nationality	3
3400:473	Latin America: The 20th Century	3
3400:476	Central America and the Caribbean	3
3520:309,310	French Culture and Civilization	3
3530:406,407	German Culture and Civilization	3
3580:427	Latino Cultures in the U.S.A.	3
3850:100	Introduction to Sociology	4
3850:302	Methods of Social Research II	3
3850:320	Social Inequality	3
3850:321	Population	3
3850:323	Social Change	3
3850:340	Ine Family Secondar	3
3850.344	Sociology of Women	3
		3
Linguistics	11 C. Distance Black as distance	~
3300:471	U.S. Dialects: Black and White	3
3300:47Z	Syntax	. 3
3388.888	to fulfill the student's undergraduate requirement	0-0
	including French, German, Italian, Shanish, Russian, Graak, or Latin	
3580:405	Soanish Linguistics: Phonology	4
3580:406	Spanish Linguistics: Syntax	4
7600:325	Intercultural Communications	3
7700:430	Aspects of Normal Language Development	3

Electives

3250: Economics

Effective Fall 1994, the Department of Economics has changed the course number for Principles of Microeconomics from 3250:202 to 3250:200. Students will be required to register for 200 before taking 3250:201 Principles of Macroeconomics. Students with prior credit for 3250:202 will be allowed to take 3250:201.

Bachelor of Arts

The General Education requirement and the second year of a foreign language.

٠	At least 30	departmental credits including:	Credits
	3250:200	Principles of Microeconomics	3
	3250:201	Principles of Macroeconomics	. 3
	3250:400	Intermediate Macroeconomics	3
	3250:410	Intermediate Microeconomics	3
•	Departmen	ntal Electives	18
Mathematics:			
	3450:215	Concepts of Calculus I	4
٠	Statistics (c	one of the following):	
	3470:460	Statistical Methods	4
		or	
	3470:461	Applied Statistics	4
•	Electives -	- 34 credits.	

Bachelor of Science in Labor Economics

• The General Education requirement.

•	At least	30	denartmental	credits	includin	α

		-	
	3250:200	Principles of Microeconomics	3
	3250:201	Principles of Macroeconomics	3
	3250:330	Labor Problems	3
	3250:410	Intermediate Microeconomics	3
	Two of the follow	ring:	
	3250:333	Labor Economics	3
	3250:430	Labor Market Policy	3
	3250:431	Labor and the Government	3
	3250:432	Collective Bargaining	3
•	Departmental	Electives	12
•	Mathematics:		
	3450:215	Concepts of Calculus I	4
•	Statistics (one	of the following):	
	3470:460	Statistical Methods	4
		Or	
	3470:461	Applied Statistics I	4

- At least eight credits in 300/400-level courses geography, history, political science, psychology or sociology.
- Electives 40 credits.

Note: 3250:100 Introduction to Economics cannot be used to satisfy the requirements for a major or minor in economics.

Note: Students may not receive credit for 3250:244 Introduction to Economic Analysis and 3250:200,201. Those students who have completed 3250:244 are not required to take 3250:200, 201 before beginning upper division work.

Cooperative Education Program in Economics

Definition

Cooperative Education (Co-op) is an experiential program in which students work in their academic field while still in college. Students are able to learn how to apply theoretical knowledge to practical applications while being a paid employee of a business or governmental agency. While not guaranteed, many students may find their permanent post-school job as a result of their co-op experience.

Admission

Cooperative Education is an optional program available to all Economics students at The University of Akron. Students seeking entry into the program should attend one of the co-op orientations offered early each semester while in the second year of undergraduate study. To be eligible for placement, students must satisfactorily complete the following requirements:

- Attain admission status to the Buchtel College of Arts and Sciences in Economics.
- Undergraduate students must complete at least 45 credit hours with at least a 2.0 overall grade-point average. Graduate students are eligible for Cooperative Education and must complete 12 graduate credit hours with at least a 3.0 overall grade-point average.
- · Agree to abide by the rules and regulations of cooperative education.
- Complete the orientation, all co-op registration forms and meet with a member of the Cooperative Education staff to review the availability of prospective employers. Co-op employment must be approved and coordinated by the coop staff. The University does not guarantee employment for the student.

Schedule

Participating students may select between alternating and parallel options within the cooperative education program. In an alternating plan, students rotate between semesters of full-time classes and semesters of full-time work. In a parallel plan, students work part-time and attend classes part-time. Careful coordination with both the co-op staff and the undergraduate student advisor in Economics is imperative.

Registration

While no academic credits are assigned, each student must register for 3000:301 Cooperative Education in the same manner that a student registers for any other University course. See a co-op coordinator before enrolling in this course.

A cooperative program fee is charged for each work period. A statement will appear on each student's official transcript listing the course number and title. A grade of "Credit" or "No Credit" will be given, depending upon the student's satisfactory completion or unsatisfactory completion of the following:

- · Work performance as evaluated by the employer.
- Written work report as approved by the cooperative education staff.
- · Follow-up appointment with the cooperative education staff.

Students working on an approved cooperative education field assignment and complying with the rules and regulations of the cooperative education program are recognized as full-time students at The University of Akron. Students successfully completing three semesters of co-op experience are awarded a certificate and recognized as co-op graduates of The University of Akron.

3300: English

Bachelor of Arts

- The General Education requirement and the second year of a foreign language.
- At least 36 credits in the department including the following course and distribution requirements:

Required cour	rses:	Credits
3300:300	Critical Reading and Writing	3
3300:301	English Literature I	3
3300:341	American Literature I	3
3300:371	Introduction to Linguistics	3
3300:315	Shakespeare: The Early Plays	3
3300:316	Shakespeare: The Mature Plays	3

Distribution of requirements:

One course in world or multicultural literature outside the canon of British and American writers. A minimum of four 400-level courses.

Electives — 36 credits.

3350: Geography and Planning

Bachelor of Arts in Geography - Geography Track

• The General Education requirement and the second year of a foreign language.

•	At least 45	credits as follows:	
Ca	xre Requiremer	nts (24 credits)	Credits
	3350:250	World Regional Geography	3
	3350:310	Physical and Environmental Geography	3
	3350:320	Economic Geography	3
	3350:340	Cartography	3
	3350:420	Urban Geography	3
	3350:481	Research Methods in Geography and Planning	3
	3350:483	Spatial Analysis	3
	3350:496	Field Research Methods	3
Pł	rysical Geograp	hy Electives (at least 6 credits)	
	3350:314	Climatology	3
	3350:415	Environmental Planning	3
	3350:495	Soil and Water Field Studies	3
	3370:310	Geomorphology	3
H	uman Geograph	ny Electives (at least 6 credits)	
	3350:335	Recreation Resource Planning	3
	3350:422	Transportation Systems Planning	3
	3350:428	industrial and Commercial Site Location	3
	3350:433	Practical Approaches to Planning	3
	3350:436	Urban Land Use Analysis	3
	3350:439	History of Urban Design and Planning	3
	3350:450	Development Planning	3
	3350:471	Medical Geography and Health Planning	3
R	egional Geogra	ohy Electives (at least 3 credits)	
	3350:350	Geography of the United States and Canada	3
	3350:351	Ohio: Environment and Society	3
	3350:353	Latin America	3
	3350:356	Europe	3
	3350:360	Asia	3
	3350:363	Africa South of the Sahara	3
Μ	lapping Method	Is Electives (at least 6 credits)	
	One course f	rom these two:	
	3350:305	Maps and Map Reading	3
	3350:306	Mapping the Earth	3
	At least one o	course from these two:	
	3350:405	Geographic Information Systems	3
	3350:447	Remote Sensing	3

Bachelor of Arts in Geography - Planning Track

• The General Education requirement and the second year of a foreign language.

· At least 45 credits as follows:

Core Requirement	nt (21 credits)	Credits
3350:310	Physical and Environmental Geography	3
3350:320	Economic Geography	3
3350:340	Cartography	3
3350:420	Urban Geography	3
3350:481	Research Methods in Geography and Planning	3
3350:483	Spatial Analysis	3
3350:496	Field Research Methods	3
Planning Require	ments (12 credits)	
3350:432	Land Use Planning Law	3
3350:433	Practical Approaches to Planning	3
3350:437	Planning Analysis and Projection Methods	3
3350:439	History of Urban Design and Planning	3
Planning Elective	s (at least 6 credits)	
3350:335	Recreation Resource Planning	3
3350:415	Environmental Planning	3
3350:422	Transportation Systems Planning	3
3350:428	Industrial and Commercial Site Location	3
3350:436	Urban Land Use Analysis	3
3350:438	Land Use Planning Methods	3
3350:450	Development Planning	3
3350:471	Medical Geography and Health Planning	3

Aapping Methods (at least 6 credits)		Credits
One course fr	rom these two:	
3350:305	Maps and Map Reading	3
3350:306	Mapping the Earth	3
At least one c	ourse from these two:	
3350:405	Geographic Information Systems	3
3350:447	Remote Sensing	3

Bachelor of Science in Geography/Cartography

• The General Education requirement and the second year of a foreign language.

At least 45 credits as follows:

Core Requirement	(18 credits)	
3350:310	Physical and Environmental Geography	3
3350:320	Economic Geography	3
3350:420	Urban Geography	3
3350:481	Research Methods in Geography and Planning	3
3350:483	Spatial Analysis	3
3350:496	Field Research Methods	3
Mapping Requirem	ents (12 credits)	
3350:306	Mapping the Earth	3
3350:340	Cartography	3
3350:405	Geographic Information Systems	3
3350:447	Remote Sensing	3
Mapping Methods	Electives (at least 9 credits credits)	
3350:407	Advanced GIS	3
3350:442	Thematic Cartography	3
3350:444	Applications in Cartography and Geographic Information Systems	3
3350:448	Advanced Cartography	3
3350:449	Advanced Remote Sensing	3
Physical/Human Ge	ography Electives (at least 3 credits)	
3350:314	Climatology	3
3350:335	Recreation Resource Planning	3
3350:415	Environmental Planning	3
3350:422	Transportation Systems Planning	3
3350:428	Industrial and Commercial Site Location	3
3350:433	Practical Approaches to Planning	3
3350:436	Urban Land Use Analysis	3
3350:439	History of Urban Design and Planning	3
3350:450	Development Planning	3
3350:471	Medical Geography and Health Planning	3
3350:495	Soil and Water Field Studies	3
3370:310	Geomorphology	3
Regional Geograph	y Electives (at least 3 credits)	
3350:250	World Regional Geography	3
3350:350	Geography of the United States and Canada	3
3350:351	Ohio: Environment and Society	3
3350:353	Latin America	3
3350:356	Europe	3
3350:360	Asia	3
3350:363	Africa South of the Sahara	3

3370: Geology

Bachelor of Science

Engineering Geology

- The General Education requirement and the second year of a foreign language.
- At least 39 departmental credits including the following:

3370:101	Introductory Physical Geology	4
3370:102	Introductory Historical Geology	4
3370:230	Crystallography and Nonsilicate Mineralogy	. 3
3370:231	Silicate Mineralogy and Petrology	3
3370:301	Engineering Geology	3
3370:324	Sedimentation and Stratigraphy	4
3370:350	Structural Geology	4
3370:446	Exploration Geophysics †	3
3370:493	Geology Field Camp I	3
3370:494	Geology Field Camp II	3
	Geology Electives from List	5

† May also be satisfied by: 4300:418 Soil and Rock Exploration.

•	Non-Geology	Required Courses:	Credits
	3150:151,2,3	Principles of Chemistry I, II	7
	3450:221, 2, 3	Analytical Geometry and Calculus I, II, and III	12
	3450:335	Introduction to Ordinary Differential Equations	3
	3650:291,2	Elementary Classical Physics I and II	8
	4300:201	Statics	3
	4300:202	Introduction to Mechanics of Solids	3
	4300:203	Dynamics	3
	4300:313	Soil Mechanics	3
	4300:314	Geotechnical Engineering	3
	4600:310	Fluid Mechanics	3
		Non-Geology Electives	4
•	Geology Elec	tive List	
	3370:310	Geomorphology	3
	3370:421	Coastal Geology	3
	3370:432	Optical Mineralogy-Introductory Petrography	3
	3370:435	Petroleum Geology	3
	3370:436	Coal Geology	3
	3370:437	Economic Geology	3
	3370:449	Borehole Geophysics	3
	3370:470	Geochemistry	3
	3370:474	Groundwater Hydrology	3
٠	Non-Geology	Elective List	
	3460:201-7	Introduction to Programming Languages (or equivalent)	2
	4300:341	Hydraulic Engineering	3
	4300:414	Design of Earth Structure	3
	4300:445	Hydrology	3
	4600:305	Thermal Science	2

Geology

The General Education requirement and the second year of a foreign language.

• At least 47 departmental credits including:

	3370:101	Introductory Physical Geology	4
	3370:102	Introductory Historical Geology	4
	3370:230	Crystallography and Non-Silicate Mineralogy	3
	3370:231	Silicate Mineralogy and Petrology	3
	3370:324	Sedimentation and Stratigraphy	4
	3370:350	Structural Geology	4
	3370:360	Introductory Invertebrate Paleontology	4
	3370:432	Optical Mineralogy-Introduction Petrography	3
	3370:493	Geology Field Camp I	3
	3370:494	Geology Field Camp II	3
		Elective Geology courses (300/400-level)	12
•	Non-geology	courses required for majors:	
	3150:151,2,3	Principles of Chemistry I, II	7
	3450:221,2	Analytic Geometry-Calculus I and II	8
	3650:291,2	Elementary Classical Physics I and II 11	8
		-	

Electives:

Elective credits in Field Studies (3370:495) and Research Problems (3370:499) are strongly recommended, however only 4 credits of each may be used to satisfy the geology elective requirement. Workshop (3370:490), may not be used to satisfy the geology elective requirement. Additional work in a supporting sciences, math, or engineering is encouraged. A student majoring in geology should consult regularly with the Director of Undergraduate Studies in the Geology Department.

Geophysics

• The General Education requirement and the second year of a foreign language.

· At least 30 departmental credits including the following:

3370:101	Introductory Physical Geology	4
3370:102	Introductory Historical Geology	4
3370:350	Structural Geology	4
3370:441	Fundamentals of Geophysics	3
3370:446	Exploration Geophysics	3
3370:493	Geology Field Camp I	3
3370:494	Geology Field Camp II	3
	Geology Electives (as approved by geophysics adviser)	6
Science El	actives 9 credite. At least three science courses apr	wowed by

 Science Electives 9 credits. At least three science courses approved by the geophysics adviser. Recommended courses are:

3460:201	Introduction to FORTRAN Programming or equivalent	3
3650:320	Waves	3
3650:322	Intermediate Laboratory I	2
3650:323	Intermediate Laboratory II	2
3650:350	Modeling and Simulation	3
3650:431	Mechanics I	3
3650:436	Electromagnetism I	3
3650:468	Digital Data Acquisition	3

•	Non-Geology	Credits	
	3150:151,2,3	Principles of Chemistry I, II	7
	3450:221,2,3	Analytic Geometry-Calculus I, II and III	12
	3450:335	Introduction to Ordinary Differential Equations	3
	3650:291,2	Elementary Classical Physics I and II	8

Bachelor of Arts

- The General Education requirement and the second year of a foreign language.
- · At least 44 departmental credits including the following:

3370:101	Introductory Physical Geology	4
3370:102	Introductory Historical Geology	4
3370:231	Silicate Mineralogy and Petrology	3
3370:350	Structural Geology	4
3370:360	Introductory Invertebrate Paleontology	4
3370:493	Geology Field Camp I	3
3370:494	Geology Field Camp II	3
	Elective geology courses (minimum eight credits at the 300/400 level)	19
Non-geology	courses required for majors:	
3150:151,2	Principles of Chemistry I	4
3450:149	Precalculus	4
At least seve	en credits from the following:	
3100:111,2	Principles of Biology (or equivalent)	4
3150:153	Principles of Chemistry II (or equivalent)	3
3650:291,2	Elementary Classical Physics I and II	4

3400: History

Bachelor of Arts

- The General Education requirement and the second year of a foreign language (French, German, Spanish or Russian suggested).
- A minimum of 32 credits of history, 16 of which must be in 300/400-level courses. A minimum of 6 credits in each of the three areas of course offerings, (1) United States; (2) Europe; and (3) Ancient/Non-Western/Cross-Cultural; and 3400:310, Historical Methods.
- Courses in World Civilizations and Humanities in the Western Tradition may not be used to meet major requirements in History.

3450: Mathematics

Bachelor of Science

Mathematics

- The General Education requirement and the second year of a foreign language.
- At least 34 credits including:

3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
3450:307	Fundamentals of Advanced Mathematics	3
3450:312	Linear Algebra	3
3450:411	Abstract Algebra	3
3450:421	Advanced Calculus I	3
3460:209	Introduction to Computer Science*	4
Choose at least on	e of the following two courses:	
3450:412	Abstract Algebra II	3
3450:422	Advanced Calculus II	3
Choose at least on	e of the following three courses:	
3470:450	Probability	3
3470:451	Theoretical Statistics	3
3470:461	Applied Statistics I	4
Electives - Appro-	ved 300/400-level courses in mathematics, applied mathematics,	
statistics or computer science		

All students should consult with their advisors for selection of appropriate electives.

tt Undergraduate geology adviser may approve substitution of 3650:261,2.

* This course will count towards the requirement of 47 credits of 300/400-level credits

· Students interested in graduate study should include the following courses in their program: Credits

• =		
3450:412	Abstract Algebra II	3
3450:422	Advanced Calculus ii	3
3450:425	Complex Variables	3
3450:445	Introduction to Topology	3

 Students seeking licensure in secondary education to teach mathematics must complete the following electives:

3450:401	History of Mathematics	3
3450:441	Concepts in Geometry	3
3470:450	Probability	3
3470:461	Applied Statistics I	4
Students inte	erested in computer science should include the	e following electives:
3450:415	Combinatorics and Graph Theory	3
3450:427	Applied Numerical Methods I	3
3460:210,316	Data Structures and Algorithms I, II	7
Choice of one:		

Choice of one:		
3450:413	Theory of Numbers	
3450:410	Advanced Linear Algebra	

Applied Mathematics

At least 38 departmental credits including***

The General Education requirement and the second year of a foreign language.

-		iopartitional croates including .	
	3460:209	Introduction to Computer Science*	4
	3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
	3450:335	Introduction to Ordinary Differential Equations	3
	3450:312	Linear Algebra	3
	3450:421	Advanced Calculus	3
	3450:427,8	Applied Numerical Methods I, II	6
	3450:436	Mathematical Models	3
	3470:461	Applied Statistics I	4
a	noose at least on	e of the following two courses:	
	3450:422	Advanced Calculus II	3
	3450:425	Complex Variables	3
E١	ectives (300/400	level) of which:	18
	At least 3 credit	ts are from 3450 courses	

At least 6 credits are from some approved applied area such as Chemistry, Computer Science, Physics, Economics, Engineering, etc.

Cooperative Education Program

Mathematics or Applied Mathematics

Schedule

The work-study schedule for a student participating in the Cooperative Education Program is as follows:

Year	Fall	Spring	Summer
1	School	School	Vacation/School
2	School	School	Vacation/School/Worl
3	School	Work	School
4	Work	School	Work
5	School	School	-

Admission

Arrangements for student entry into the program are on an individual basis, and must be initiated by the student during the second year of undergraduate study. The Cooperative Education Program is an optional program available only to all full-time mathematics or applied mathematics students at The University of Akron who have satisfactorily met the following requirements:

- Sixty credits with a grade-point average of at least 2.00 out of a possible 4.00 in the program curriculum and be on schedule in the curriculum.
- Acceptance by a cooperative education coordinator or director following interviews.
- A transfer student must complete 16 credits of academic work at The University of Akron with a grade-point average of at least 2.00 out of a possible 4.00 and be on schedule in the program curriculum.

A student who desires to participate in the program will fill out a Personal Data form and submit it to the department chair. The student will then meet with a member of the cooperative education staff to discuss the availability of prospective employers. During this interview, the student will be asked to sign a Cooperative Educational Agreement and a grade release form which will become

The courses 3450:100, 113-138, 145, 149, 401; 3470:250-257, 260-262, 280; and most 3460 courses do not meet these degree requirements.

* This course will count towards the requirement of 47 credits of 300/400-level credits

effective upon employment. Employment must be coordinated or have approval of the department and the cooperative education director. The University does not guarantee employment for the student. The student will be expected to remain with the employer for all cooperative work periods in order to provide a progression of experience and responsibility.

Registration

3

3

While no academic credits are assigned, each student must register for 3000:301 Cooperative Education in the same manner that a student registers for any other University course. See department adviser before enrolling for this course.

A cooperative program fee for each work period is charged. Upon completion of a work period, a statement will appear on each student's official transcript listing the course number, title and name of the employer. In the place of a grade," credit" or "no credit" will be given, depending upon the student's satisfactory or unsatisfactory completion of the following:

- Work performance as evaluated by the employer.
- Written work report as approved by department chair and cooperative education staff.
- Cooperative Work Period Summary form.

Usually, work progresses satisfactorily on the job and a grade of "credit" is assigned at the end of the semester. If all the above conditions are not met, a change of grade to "no credit" will be submitted.

3460: Computer Science

Admission to Computer Science Major

The student must have completed 30 credits of work and have the approval of the Dean of the College. In addition, the student must have completed 3450:208, 3460:209, 3460:210 and 3450:221, each with C or better.

Bachelor of Science

The General Education requirement and the second year of a foreign language.

Core curriculum:		
3460:209	Introduction to Computer Science	4
3460:210	Data Structures and Algorithms I	4
3460:306	Assembly Language Programming	4
3460:307	Applied Systems Programming	3
3460:316	Data Structures and Algorithms II	3
3460:421	Object-Oriented Programming	3
3460:426	Operating Systems	3
3460:430	Theory of Programming Languages	3
3460:465	Computer Organization	3
3460:480	Introduction to Software Engineering and Formal Methods	3
3460:490	Senior Seminar in Computer Science	3
Other requ	ired courses:	
3450:208	Introduction to Discrete Mathematics	4
3450:221	Analytic Geometry and Calculus i	4
3450:222	Analytic Geometry and Calculus II	4
3470:461	Applied Statistics	4

- A minimum of 12 credit hours of approved 300 and/or 400-level Computer Science electives
- · Note: No more than one 300-level Computer Science course may be used to satisfy the Computer Science Elective requirement.

Cooperative Education Program

Computer Science

Schedule

The work-study schedule for a student participating in the Cooperative Education Program is as follows:

Year	Fali	Spring	Summer
1	School	School	Vacation/School
2	School	School	Vacation/School/Work
3	School	Work	School
4	Work	School	Work
5	School	School	-
Admission

Arrangements for student entry into the program are on an individual basis, and must be initiated by the student during the second year of undergraduate study. The Cooperative Education Program is an optional program available only to all full-time computer science students at The University of Akron who have satisfactorily met the following requirements:

- Sixty credits with a grade-point average of at least 2.00 out of a possible 4.00 in the program curriculum and be on schedule in the curriculum.
- Acceptance by a cooperative education coordinator or director following interviews.
- A transfer student must complete 16 credits of academic work at The University of Akron with a grade-point average of at least 2.00 out of a possible 4.00 and be on schedule in the curriculum.
- The student is expected to have successfully completed 3460:306 and 3460:316 before the first work period.

A student who desires to participate in the program will fill out a Personal Data form and submit it to the department chair. The student will then meet with a member of the cooperative education staff to discuss the availability of prospective employers. During this interview, the student will be asked to sign a Cooperative Educational Agreement and a grade release form which will become effective upon employment. Employment must be coordinated or have approval of the department and the cooperative education director. The University does not guarantee employment for the student. The student will be expected to remain with the employer for all cooperative work periods in order to provide a progression of experience and responsibility.

Registration

While no academic credits are assigned, each student must register for 3000:301 Cooperative Education in the same manner that a student registers for any other University course. See department adviser before enrolling for this course.

A cooperative program fee for each work period is charged. Upon completion of a work period, a statement will appear on each student's official transcript listing the course number, title and name of the employer. In the place of a grade, "credit" or "no credit" will be given, depending upon the student's satisfactory or unsatisfactory completion of the following:

- · Work performance as evaluated by the employer.
- Written work report as approved by department chair and cooperative education staff.
- · Cooperative Work Period Summary form.

Usually, work progresses satisfactorily on the job and a grade of "credit" is assigned at the end of the semester. If all the above conditions are not met, a change of grade to "no credit" will be submitted.

3470: Statistics

Bachelor of Arts, Statistics

Bachelor of Science, Statistics

Bachelor of Science, Statistics/Statistical Computer Science

Bachelor of Science, Statistics/Actuarial Science

• The General Education requirement and the second year of a foreign language.

Core curriculum:		m:	Credits
345	50:221,2,3	Analytic Geometry-Calculus I, II and III	12
345	50:312	Linear Algebra	3
347	70:451,2	Theoretical Statistics I, II	6
347	70:461,2	Applied Statistics I, II	8
347	70:480	Statistical Computer Applications	з
347	70:495	Statistical Consulting	2
		-	34

- Complete nine credits of course work outside the major and beyond the General Education in a suitable area of concentration as approved by the department.
- Electives 29 credits
- For the Bachelor of Arts degree: complete 18 credits of humanities or social sciences beyond the General Education. The 18 credits are to be from more than one department.
- For students intending to go on to graduate school, the following electives are recommended: 3450:421,422 Advanced Calculus I, II.

Statistical Computer Science option (BS only)

There are two tracks to major in Statistics with this option:

Track 1		
 Other requ 	Credits	
3450:208	Intro to Discrete Mathematics	4
3460:209	Introduction to Computer Science	4
3460:210	Data Structures & Algorithms I	4
3460:316	Data Structures & Algorithms II	3
3460:475	Database Management	3
		18

- Electives 11 credits
- Computer Science minor can be obtained by completing 3460:306 Assembly Language Programming and another 3-credit computer science elective course in addition to the above required courses.

Track 2

Other required courses:			
3460:401	Fundamentals of Data Structures	3	
3460:406	Introduction to C and UNIX	3	
3460:475	Database Management	3	
		0	

Electives - 20 credits

Actuarial Science option (BS only)

Other required courses:

3450-129	Mathematics of Einance	1
3450.138	Ash assed Calastica Lill	1
3450:421,2	Advanced Calculus I, II	b
3470:471,2	Actuarial Science I, II	<u>6</u>
		13
Select two	of the following:	
3450:427	Applied Numerical Methods I	3
3450:436	Mathematical Models	3
3470:469	Reliability Models	3
6500:421	Operations Research	3
		6
The recomr	nended area of concentration for the Actuarial S	Science degree:
3250:244	Introduction to Economic Analysis	3
6200:201	Acct Concepts and Principles for Business	3
6200:202	Managerial Accounting	3
6400:415	Risk Management and Insurance	3
6400:371	Business Finance	3
		15

Electives: 4-10 credits

3500: Modern Languages

3520: French; 3530: German; 3550: Italian; 3570: Russian; 3580: Spanish.

Bachelor of Arts

French

- The General Education requirement.
- Completion of 27 credits above the second year (200 level): six credits in literature, six credits in culture, six credits of electives in the major language, and six credits in composition, and conversation and three credits in advanced grammar.

German

As of the start of the Fall Semester 2000 the German major will be suspended. No student will be permitted to declare a major in German after the start of the Fall Semester 2000.

- · The General Education requirement.
- Completion of 24 credits above the second year (200 level); six credits in literature, six credits in culture, six credits of electives in the major language and six credits in composition and conversation.

Spanish

- The General Education requirement.
- Completion of 28 credits above the second year (200 level); including at least one language course, one literature course, and one cultural course, all at the 400 level.

3600: Philosophy

Bachelor of Arts

The General Education requirement and the second year of a foreign language.

•	A minimum	of 30 departmental credits including:	
---	-----------	---------------------------------------	--

3600:101	Introduction to Philosophy	. 3
3600:120	Introduction to Ethics	3
3600:170	Introduction to Logic	3
3600:211	History of Ancient Philosophy	3
3600:312	History of Medieval Philosophy	3
3600:313	History of Modern Philosophy	3
	(Of the additional twelve credits, six must be earned in	
	300/400-level courses.)	

Electives — 42 credits.

3650: Physics

Bachelor of Science

This degree is intended for the student seeking the most detailed and quantitative preparation in physics available in an undergraduate curriculum.

- · The General Education requirement and 14 credits of a second language.
- Physics requirements:1

	A minimum of 40) credits at 200 level or higher, including:‡	
	3650:291,2	Elementary Classical Physics I and II	8
	3650:301	Elementary Modern Physics	3
	3650:322,3	Intermediate Laboratory I, II	6
	3650:340	Thermal Physics	3
	3650:431	Mechanics I	3
	3650:436	Electromagnetism I	3
	3650:441, 2	Quantum Physics I, II	6
		Physics Electives	8
	Highly recomme	nded courses for all students:	
	3650:432	Mechanics II	3
	3650:437	Electromagnetism II	3
	3650:451,2	Advanced Laboratory I, II	6
	3650:481,2	Methods of Mathematical Physics I, II	6
	3450:312	Linear Algebra	3
	3650:399	Undergraduate Research	1-6
•	Mathematics	requirements:	
	3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
	3450:335	Introduction to Ordinary Differential Equations	3
•	Chemistry rec	quirements:	
	3150:151, 2, 3	Principles of Chemistry I, II, Lab	7
•	Computer Sci	ence requirement:	
	3460:209	Introduction to Computer Science	4
TI pi	ne following co rogram of study	purses are recommended for students wishing to e y in areas of research in the Department:	nhance their
•	Chemical Phy	sics	

	A suggested pro	gram of 20 credits to include the following:	
	3150:263,4	Organic Chemistry Lecture 1, 11	6
	3150:313,4	Physical Chemistry Lecture I, II	6
	3150:423,4	Analytical Chemistry I, II	6
	3150:380, 381	Advanced Chemistry Lab I, II	4
•	Polymer Phys	sics	
	A suggested pro	gram of 24 credits to include the following:	
	3150:263,4	Organic Chemistry Lecture I, II	6
	3150:313,4	Physical Chemistry Lecture I, II	6
	9871:401/501	Introduction to Elastomers	4
	9871:402/502	Introduction to Plastics	4
	9871:411,12,13	Molecular Structure and Physical	
		Properties of Polymers I, II, III	7

Physics (Pre-Graduate School)

Credits

A suggested pr	Credits	
3650:406	Optics	3
3650:432	Mechanics II	3
3650:437	Electromagnetism II	3
3650:481,82	Methods of Mathematical Physics I, II	6
3650:451,52	Advanced Laboratory I, II	6

The preceding requirements specify the minimum curriculum for the B.S. in physics. The student expecting to specialize in a particular professional area should consider utilizing part or all elective courses toward this goal. The areas of specialization listed above are intended to be illustrative only; considerable flexibility is possible, depending upon the needs and interests of the individual student.

3700: Political Science

Statement of Policies - Admission

For students enrolled at The University of Akron and for students wishing to transfer directly to Buchtel College of Arts and Sciences from other institutions, the following criteria must be satisfied for admission to the Department of Political Science:

- The student must be admissible to Buchtel College of Arts and Sciences.
- A minimum grade point average of 2.20 must be met in all university work, including transfer credits.
- A minimum grade point average of 2.20 must be met in all work in Political Science, including transfer credits.

Only credits earned at an accredited institution of postsecondary education, as recognized by The University of Akron, will be considered for transfer credit, and only those grades will be considered in the grade point average.

Retention

Students in the Political Science programs must maintain a minimum grade point average of 2.20 overall and a minimum of 2.20 grade point average in Political Science courses in order to remain in the program. A student who fails to maintain the 2.20 cumulative average will be placed on academic probation. Failure to raise the average after one semester or one 10 week summer session will result in dismissal from the program. The student may not apply for readmission for at least one semester.

Graduation

A Political Science major must earn a cumulative 2.20 grade point average in Political Science and overall to graduate with such a declared major.

Grades of C- or below obtained in any course at other institutions will not apply toward a Political Science degree at The University of Akron.

Bachelor of Arts

- · The General Education requirement and the second year of a foreign language.
- Completion of at least 30 credits in the department. Students must select one of the following two tracks:

American Track

3700:100	Government and Politics in the United States	4	
3700:201	Introduction to Political Research	3	
3700:300	Comparative Politics	4	
3700:303	Introduction to Political Thought	3	
3700:310	International Politics and Institutions	4	
And two 400-level courses (may include 400-level course used to meet the American politics requirement.			
Choose one American politics course from among the following:			

3700-341	American Congress	3
3700:350	American Presidency	3
3700:360	Judicial Process	3
3700:402	Politics and the Media	3
3700:474	Political Opinion, Behavior and Electoral Politics	3
3700:475	American Interest Groups	3
3700:476	American Political Parties	3

Additional Political Science electives to equal 30 credits total in Political Science.

Additional physics courses are usually necessary to satisfy the admission requirements of graduate schools for advanced work in physics or certain other physical sciences.

Only one of the introductory sequences 291,2 or 261,2 is applicable toward the required 40 credits. Courses 3650:130, 133, 137 are not applicable toward the required 40 credits of physics.

Internationa	I/Comparative Track	Credits
3700:150	World Politics and Governments	3
3700:201	Introduction to Political Research	3
3700:300	Comparative Politics	4
	or	
3700:310	International Politics and Institutions	4
3700:303	Introduction to Political Thought	3
And two 400	level courses (may include 400-level courses used to	meet the American politics
requirement.		

Choose two American politics courses from among the following:

3700:341	American Congress	3
3700:350	American Presidency	3
3700:360	Judicial Process	3
3700:402	Politics and the Media	3
3700:474	Political Opinion, Behavior and Electoral Politics	3
3700:475	American Interest Groups	3
3700:476	American Political Parties	3

Additional Political Science electives to equal 30 credits total in Political Science.

Bachelor of Science in Political Science/ Criminal Justice

- Students pursuing the Political Science/Criminal Justice program must complete course work in criminal justice technology from the Community and Technical College or another accredited institution. This may be done in one of three ways: (1) complete all requirements for an associate degree in criminal justice; (2) complete a minor in criminal justice outside the Department of Political Science; or (3) complete 12 credits of approved criminal justice course work outside the Department of Political Science with a minimum 3.0 GPA.
- Completion of General Education requirement requirements. Students should note that 2020:121 English and 2820:105 Basic Chemistry only satisfy General Education requirements for students who are completing the associate degree in Criminal Justice Technology and are classified as Community and Technical College students. Furthermore, 2030:151, 152 and 153 Elements of Math I-III are only options for associate degree track students and all three courses (6 credits) must be completed before the student transfers to the College of Arts and Sciences. Students at the Community and Technical College (pursuing the full Associates Degree) may also take Elements of Math I (2030:151) paired with Mathematics for Modem Technology (2030:161). If you are unsure which course to take, feel free to contact the Political Science Department for guidance.
- Completion of 47 credits of 300/400-level courses excluding General Education courses (including Humanities and Area Studies and Cultural Diversity) or any workshop.
- At least six credits of course work which will introduce the student to a foreign culture. Such courses shall be selected by the student with the approval of the adviser in the Department of Political Science. Selected courses may be chosen from any of the following departments: modern languages, history, political science, anthropology and geography.

At least 30 departmental credits including:

Foundations in Political Science

3700:100	Government and Politics in the United States	4
3700:201	Introduction to Political Research	3
3700:361	Politics of the Criminal Justice System	3
Criminal Jus	tice Core (choose four)	
3700:335	Law and Society	3
3700:363	Crime, Punishment, Politics: A Comparative Perspective	3
3700:450	Politics of Corrections	3
3700:480	Policy Problems: Criminal Justice	3
3700:481	Politics of Policing	3
3700:482	Current Issues in Criminal Justice	3
3700:483	Constitutional Problems in Criminal Justice	3
Internship Re	quirement	

3700:395 Internship in Government and Politics 2-9 (Students are required to take a minimum two credits internship. No more than four credits may be applied toward major in political science.)

Advanced Political Science Courses (choose two only)

	· · · · · · · · · · · · · · · · · · ·	
3700:341	The American Congress	3
3700:350	The American Presidency	3
3700:360	The Judicial Process	3
3700:370	Public Administration: Concepts and Practices	4
3700:380	Urban Politics and Policies	4
3700:402	Politics and the Media	3
3700:462	The Supreme Court and Civil Liberties	3
3700:474	Political Opinion, Behavior and Electoral Politics	3
3700:475	American Interest Groups	3
3700:476	American Political Parties	3

Bachelor of Science in Political Science/ Public Policy Management

- The General Education requirement and the second year of a foreign language.
- · Completion of 47 credits of 300/400 level courses

•	Political Science — at least 30 department credits including :		Credits
	3700:100	Government and Politics in the United States	4
	3700:201	Introduction to Political Research	3
	3700:395	Internship: Government and Politics	3
		Co-op Collegewide Level	0
	Choose three	of the following Policy-Related Options:	
	3700:301	Advanced Political Research	3
	3700:370	Public Administration: Concepts and Practices	4
	3700:441	Policy Process	3
	3700:442	Methods of Policy Analysis	3
	3700:480	Policy Problems	3

Two 3700:400-level courses (may include 400-level courses used to meet policy-related option) Political Science electives

	Accounting:		
	6200:490 6200:250	Special Topics: Financial Management for Non-Profit Organizations Microcomputer Applications for Business	3 3
•	Computer Scie	ence:	
	3460:126	Introduction to Visual Basic Programming	3
•	Economics:		
	3250:200	Principles of Microeconomics	3
•	Statistics:		
	3470:260	Basic Statistics	3
•	Management:		
	6500:301	Management: Principles and Concepts	3
	6500:341	Human Resource Management	3
•	Choose one o	f the following Choice Options:	
	3250:330	Labor Problems	3
	3250:405	Economics of the Public Sector	3

Special Curricular Tracks in Political Science

The department offers three special tracks for the student interested in pre-law, the international service or national, state or local government service. In addition to the requirements for the major, each of these tracks includes electives appropriate for preparation for careers in law, government service or international service.

Information about these curricular tracks may be obtained from the department.

3750: Psychology

Bachelor of Arts

A

The General Education requirement and a minimum of 40 credits in psychology including:

12 credits of core requirements:

3750:100	Introduction to Psychology	3
3750:105	Professional and Career Issues in Psychology	1
3750:110	Quantitative Methods in Psychology	4
3750:220	Introduction to Experimental Psychology	4
16 credits f	from the following six courses:	
3750:230	Developmental Psychology	4
3750:320	Biopsychology	4
3750:335	Dynamics of Personality	4
2750-240	Social Preschology	4

3750:345	Cognitive Processes	4
3750:410	Psychological Tests and Measurements	4
12 credits of	osychology electives, of which no more than four ma	av be ful

 12 credits of psychology electives, of which no more than four may be fulfilled with 495 Field Experience or 497 Independent Reading and/or Research in Psychology.

 Completion of second year of a foreign language or a similar level of proficiency in American Sign Language.

3850: Sociology

(3850: Sociology; Sociology/Law Enforcement; Sociology/Corrections)

Statement of policies - Admission

For students enrolled at the University of Akron and for students wishing to transfer directly to Buchtel College of Arts and Sciences from their institutions, the following criteria must be satisfied for admission to the Department of Sociology:

- The student must be admissible to Buchtel College of Arts and Sciences
- A minimum grade point average of 2.20 must be met in all university work, including transfer credits. Only credits earned at an accredited institution of postsecondary education, as recognized by The University of Akron, will be considered for transfer credit, and only those grades will be considered in the grade point average.

Graduation

A Sociology, Sociology/Law Enforcement, Sociology/Corrections major must earn a cumulative 2.20 grade point average in Sociology and overall to graduate with such a declared major.

Bachelor of Arts

Sociology

The General Education requirement and the second year of a foreign language.

,	A minimum	of 28 credits in sociology including:	Credits
	3850:100	Introduction to Sociology	4
	3850:301,2	Methods of Social Research I and II	6
	3850:460	Sociological Theory	4
		Sociology Electives	14
	(2220-1E0 Cult	ural Anthropology can be counted as part of these aradites)	

230:150 Cultural Anthropology can be counted as part of these credits)

Electives

The student should consult with a departmental adviser about using electives to enhance the specialty area, e.g., academic sociology, deviance and corrections, health, family, aging and life cycle, social inequality and social research.

Sociology/Law Enforcement

• The General Education requirement and the second year of foreign language.

A minimum of 32 credits in the department including:

3850:100	Introduction to Sociology	4
3850:301,2	Methods of Social Research I, II	6
3850:320	Social Inequality	3
3850:330	Criminology	3
3850:430	Juvenile Delinquency	3
3850:433	Sociology of Deviant Behavior	. 3
3850:441	Sociology of Law	3
3850:460	Sociological Theory	4
3850:495	Field Internship	3

Electives

Students who enter the Sociology/Law Enforcement program must complete course work in Criminal Justice Technology. This may be done in one of three ways: (1) complete the program requirements for an A.S. in criminal justice; (2) complete 18 credits of criminal justice course work, of which three credits must be 2200:100; or, (3) complete one of the two minors (General Criminal Justice or Corrections Area of Concentration) offered in Criminal Justice Technology.

Sociology/Corrections

The General Education requirement and the second year of a foreign language.

· A minimum of 32 credits in sociology including:

3850:100	Introduction to Sociology	4
3850:301,2	Methods of Social Research I, II	6
3850:315	Sociological Social Psychology	3
	or	
3850:411	Social Interaction	3
	or	
3850:412	Socialization: Child-Adult	3
	or	
3850:433	Sociology of Deviant Behavior	3
3850:330	Criminology	3
3850:430	Juvenile Delinquency	3
3850:431	Corrections	3
3850:460	Sociological Theory	3
3850:471	Field Placement in Corrections	3
3850:495	Field Internship	3

Electives

Students in the Sociology/Corrections program must complete course work in Criminal Justice Technology. This may be done in one of three ways: (1) complete the program requirements for an A.S. in criminal justice; or, (2) complete 18 credits of criminal justice technology course work of which three credit hours must be 2200:100; or (3) complete one of the two minors (General Criminal Justice Technology.

Bachelor of Arts in Interdisciplinary Anthropology

For information on the Interdisciplinary Anthropology program, please see 3200: Classical Studies, Anthropology and Archaeology.

Division Majors

Humanities

The humanities division consists of the departments of classical studies, anthropology and archaeology, English, modern languages and philosophy. The disciplines of history and the creative and dramatic arts (art, music, theatre arts) are included. The divisional major must include the following:

- The General Education requirement and the second year of a foreign language.
- A minimum of 54 credits, at least 24 of which must be in courses at the 300/400 level. The 54 credits must include 18 credits in each of any three of the following six fields: classics, English, history, modern languages, philosophy and the creative and dramatic arts.
- The first two years of any language in either classics or modern languages will not be included in the 18-credit requirement for those disciplines.

By field, the 18-credit requirement must include:

 Classics: 		Credits
3200:361	The Literature of Greece	3
3200:362	The Literature of Rome	3
3200:189	Classical Mythology	3
 English: 		
300/400 level,	including at least two courses at the 400 level (minimum)	9
 History: 		
	300/400 level (minimum)	10
Modern La	nguages:	
	Composition and Conversation	6
	Literature	6
	Any combination of linguistics and culture-civilization	6
 Philosophy. 	:	
3600:101	Introduction to Philosophy	3
3600:120	Introduction to Ethics	3
3600:170	Introduction to Logic	3
Creative an	d Dramatic Arts:	
	Non-performance courses in art (7100), music (7500)	
	and theatre arts (7800)	18

Courses for the humanities division major must be selected with the approval of the division adviser. For further information, please contact the Office of the Dean, Buchtel College of Arts and Sciences.

Natural Sciences

The divisional major provides for a broad background in science with concentration in selected areas. It is an appropriate major for those preparing for admission to professional programs in medicine, dentistry or veterinary science or for those desiring a Liberal Arts degree with a general emphasis in science. Additional course work is often necessary for those planning graduate studies in a particular science discipline. The natural sciences division consists of the departments of biology, chemistry, geology, mathematics, computer science, statistics, and physics. The divisional major must include:

- The General Education requirement.
- 47 credits at the 300-400 level.
- A minimum of 64 credits in the natural science division and/or engineering, at least 27 of which must be in natural science divisional departments at the 300/400 level.

- At least 27 credits from one of the departments of the natural sciences division.
- At least 16 credits with at least two credits at the 300/400 level from another of the following disciplines: biology, chemistry, engineering, geology, mathematics or computer science or statistics, physics, polymer science.
- At least 16 credits from a third of these disciplines; or alternatively, at least eight credits in each of two other of these disciplines.
- A foreign language is strongly recommended.

The courses for the natural sciences division major must be selected only from courses approved toward the department major. For further information, please contact the Office of the Dean, Buchtel College of Arts and Sciences.

Social Sciences

The social sciences division consists of the departments of economics, geography, history, political science, psychology, sociology, public administration and urban studies (graduate program only). The divisional major must include the following:

- The General Education requirement and the second year of a foreign language.
- A minimum of 54 credits, at least 24 of which must be in courses at the 300/400 level. The 54 credits must include a minimum of 15 credits in each of any three of the following six fields: economics, geography, history, political science, psychology and sociology-anthropology.

By field, the 15-credit requirement must include:

•	Economics: Any except 3250:	100 Introduction to Economics** (must include 3250:200 Principles of	15
	Microeconomics	and 3250:201 Principles of Macroeconomics)	
٠	Geography:		15
٠	History:		15
	At least seven of	the 15 credits at the 300/400 level	
٠	Political Scien	ce:	15
A	least seven of	the 15 credits at the 300/400 level	
	3700:100	Government and Politics in the United States or	4
	3700:201	Introduction to Political Research	3

Each student shall take at least one course in two of the four areas (American government and politics, comparative politics, international politics and political theory) shown below:

American Government and Politics:

	3700:210	State and Local Government and Politics	3
	3700:341	The American Congress	3
	3700:342	Minority Group Politics	3
	3700:350	The American Presidency	3
	3700:360	The Judicial Process	3
	3700:370	Public Administration: Concepts and Practices	4
	3700:380	Urban Politics and Policies	4
	3700:381	State Politics	3
	3700:402	Politics and the Media	3
	3700:440	Survey Research Methods	3
	3700:441	The Policy Process	3
	3700:461	The Supreme Court and Constitutional Law	3
	3700:462	The Supreme Court and Civil Liberties	3
	3700:480	Policy Problems	3
Ca	omparative P	olitics:	
	3700:300	Comparative Politics	4
	3700:320	Britain and the Commonwealth	3
	3700:321	Western Europe Politics	3
	3700:322	Politics of Post-Communist States	3
	3700:323	Politics of China and Japan	3
	3700:326	Politics of Developing Nations	3
	3700:327	African Politics	3
	3700:420	Issues and Approaches in Comparative Politics	3
	3700:425	Latin American Politics	3
In	ternational P	o litics :	
	3700:310	International Politics and Institutions	4
	3700:328	American Foreign Policy Process	3
	3700:415	Comparative Foreign Policy	3
Po	olitical Theory	<i>r</i> :	
	3700:302	American Political Ideas	3
	3700:303	Introduction to Political Thought	3
	3700:304	Modern Political Thought	3
•	Psychology:		15
•	Sociology-Anth	nropology:	15

Courses for the social sciences division major must be selected with the approval of the divisional adviser. For further information, please contact the Office of the Dean, Buchtel College of Arts and Sciences.

Social Sciences — PPE Track

The Social Sciences division PPE track consists of courses from the departments of Philosophy, Political Science, and Economics. The PPE divisional major must include the following:

- The General Education requirement and the 2nd year of a foreign language.
- A minimum of 54 credits, at least 24 of which must be in courses at the 300/400 level. The 54 credits must include a minimum of 15 credits in each of the 3 following fields: Philosophy, Political Science, and Economics.
- By field, the 15 credit requirement must include:

Philosophy:		Credits
3600:120	Introduction to Ethics*	3
3600:170	Introduction to Logic*	3
3600:464	Philosophy of Science	3
3600:3xx/4xx	300/400 level courses in Philosophy	6
		15
Political Scie	nce:	
3700:201	Introduction to Political Research	3
3700:303	Introduction to Political Thought	3
3700:3xx/4xx	300/400 level courses in Political Science	9
		15
Economics:		
3250:244	Introduction to Economic Analysis**	3
3250:400	Intermediate Macroeconomics	3
3250:410	Intermediate Microeconomics	3
3250:3xx/4xx	300/400 level courses in Economics	6
		15

. The remaining nine credits of electives (to complete the total minimum PPE requirement of 54 credits) can be taken in either Philosophy, Political Science, or Economics. These nine credits do not have to be taken all in one department. It is recommended, however, that they be taken at the 300/400 level.

Bachelor of Science/Doctor of Medicine Degree (B.S./M.D. Program)

Introduction

Credits

The University of Akron, Kent State University, Youngstown State University, and Northeastern Ohio Universities College of Medicine (NEOUCOM) offer, as a consortium, a six-year B.S./M.D. program. Each year The University of Akron admits a limited number of carefully selected students into its B.S./M.D. degree option. Only students with no college credit after graduation from high school are eligible. Students with college credit taken as high school students are eligible. The deadline for application to the program is December 15.

Students selected for the program enter Phase I, the B.S. degree phase, where they may obtain the baccalaureate degree in two years on the Akron campus (summers included). Phase I students who successfully complete coursework requirements, maintain required grade point averages, achieve required scores on the Medical College Admission Test, and meet all other standards of readiness for medical education are then promoted directly to NEOUCOM for Phase II of the B.S./M.D. program. Phase II consists of a four-year medical school course of study, at the NEOUCOM campus and at selected clinical campuses, leading to the M.D. degree.

During Phase I, B.S./M.D. students usually pursue a natural sciences division major in the Buchtel College of Arts and Sciences, although other majors may be selected with the approval of the B.S.M.D. Program Coordinator. B.S.M.D. students are eligible for participation in the University Honors Program. Curricula for both options are listed below.

B.S./M.D. students pursuing either the regular or honors track may also complete a certificate in Gerontology by fulfilling requirements from courses available from the Institute for Life-Span Development and Gerontology and the Office of Geriatric Medicine, NEOUCOM. Application is made through the Institute for Life-Span Development and Gerontology.

** Can use 3600:120 or 3600:170 toward General Education Requirement (3 credits only)

^{**} Can use 3250:244 toward General Education Requirement. (If 3250:200 and 3250:201 have been completed, 3250:244 is not required. Can use 3600:120 or 3600:170 toward General Education requirement (3 credits only).

Requirements

Group I: 15 hours Credit				Credits
•	Required:			
	1880:310 3600:361	Medical Seminar and Practicum Biomedical Ethics		3 3
•	Remaining 9 c	redits from among the following	:	
_	Classics (3200) Latin (3220) History (3400) Humanities in the	Westem Tradition I, II (3400:210,211)	Greek (3210) English (3300, above 112) Philosophy (3600) World Civilizations (3400:38	5-391)
G	roup II: 13 ho	urs		
٠	Required:			
	7600:105	Introduction to Public Speaking		3
	7600:106 3300:111 3300:112	or Effective Oral Communication English Composition I Honors English Composition II Honors or		3 4 3
		Other approved writing class		3-4
•	Remaining cre	dits from among the following:		
	Modem Language Music (7500) Applied Music (75 Theatre Organization Dance Organization	as (3520-3580 300 level or above) (20) (ions (7810) ons (7910)	Art (7100) Musical Organizations (7510 Theatre Arts (7800) Dance (7900)))
G	roup III: 9 hou	ırs		
	Required:			
	3750:100	Introduction to Psychology		3
	Bemeining air	and the form of a second the following	~ .	Ũ
•	nemaining six	credits from among the followin	y.	
	Anthropology (32) Geography (3350) Psychology (3750)	30))))	Economics (3250) Political Science (3700) Sociology (3850)	
G Di	roup IV: 68 h ivisional majo	ours (satisfies requirement fo or).*	or Natural Sciences	
•	Required:			
	Mathematics			
	3450:221	Analytical Geometry Calculus I		4
	3460:125	Descriptive Computer Science		2
	3470:261,2	Introductory Statistics I, II		4
	Biology 3100:111 112	Principles of Biology t II		8
	3100:211	Genetics		3
	3100:461,2	Human Physiology		8
	3100:365	Histology I (plus 5 additional biology 300/400 credit from NEOUCOM)	s—may be transferred	3
	Chemistry	Drinsiples of Chamistry I. II		
	3150(151,153	Principles of Chemistry I, II Principles of Chemistry II aboratory		0 1
	3150:154	Qualitative Analysis		2
	3150:263,264	Organic Chemistry I, II		6
	3150:265	Organic Chemistry Lab		2
	3150:401,402	BIOCHEITHSTRY I, II		D
	3650:261,262	Physics for Life Sciences I, II		8

Free Electives: 14 hours

Free electives may be selected from any departments except physical education (5540), C&T math or science classes, mathematical sciences (3450, 3460, 3470) and sciences (3100, 3150, 3370, 3650). Credits earned in excess of requirements for any Group HII may be applied toward this free elective requirement. (May be taken on credit/noncredit basis.)

Specific B.S./	Credits	
2780:290	Special Topics	2
3100:190,191	Health Care Delivery Systems	2
3100:290,291	Health Care Delivery Systems	2
1880:201	Medical Seminar and Practicum I	3
Physical Educa	tion Requirement:	
5540:120-181	Physical Education	1

B.S./M.D. Honors Track

Students accepted into the NEOUCOM B.S/M.D. program are also eligible to enroll in the University Honors Program.

The B.S./M.D. Program Coordinator will serve as the Honors Preceptor for the B.S./M.D. students. Other faculty will become involved as each student plans the honors project. Requirements for retention in the Honors Program are determined by the Honors Council.

Honors Requirements:

Colloquia:†

noquia.		
1870:250	Honors Colloquium Humanities	2
1870:360	Honors Colloquium Social Sciences	2
	Honors Project:	3

A major research paper will be required. A University of Akron faculty member shall direct the paper. The work must be completed prior to the completion of the undergraduate degree. In any of the following options, each student is expected to file the formal paper with the department of choice and the Honors Council in compliance with the procedures established by the Honors Council. Three options are possible:

1) A student may register for three hours of regular honors project hours in any department currently offering such credit. The student would be expected to complete a major research paper which in some way relates medicine to the discipline of the department.

2) A student may complete a research laboratory project in biology during the first summer of medical school. A formal paper, directed by a University of Akron faculty member, will be submitted as partial completion of the honors requirements.

3) A student may complete a major paper as part of the Human Values in Medicine curriculum at NEOUCOM and transfer up to three hours of credit back to The University of Akron. A University of Akron faculty member should act as co-director of the project.

- B.S.(M.D. Honor students will be encouraged to enroll in honors sections whenever er possible but honors work in the divisional major will not be required.
- Students who withdraw from the B.S./M.D. program who are otherwise eligible to continue in the Honors Program may remain in the Honors Program under current requirements.
- Students who withdraw or are no longer eligible to remain in the Honors Program may continue in the B.S./M.D. program provided they meet current B.S./M.D. requirements.

* The College requirement of 47 upper level credits is waived for B.S.M.D. students promoted to Phase II in two years. Those who leave the program or take a third year must satisfy this requirement. See adviser for clarification.

1 These seven credits will substitute seven of the required free elective credits.

College of Engineering

S. Graham Kelly, Ph.D., Interim Dean Subramaniya Hariharan, Ph.D, Interim Associate Dean Paul C. Lam, Ph.D., Associate Dean, Undergraduate Studies and Diversity Programs

OBJECTIVES

The College of Engineering provides educational opportunities for students at both the undergraduate and graduate levels who wish to pursue careers in engineering. The faculty in the College of Engineering performs research with the purpose of contributing new knowledge to the fields encompassed by engineering principles. Professional service is in concert with the objectives of the University.

COLLEGE REQUIREMENTS

Admission

To be admitted to the College, the student must have a) completed 30 credits of course work; b) completed the second course of Analytical Geometry-Calculus; and c) received "C-"or better in all required math courses that were attempted less than three times, or at least a "B" for any such course attempted a third time. The student must have no more than three grades for any one course and no more than six "repeats for change of grade." The student must have a 2.3 grade-point average in three of the following areas: overall, engineering, math, and science.

Students accepted into the University Honors program as engineering majors are automatically admitted to the College of Engineering. Incoming freshmen with appropriate credentials may receive direct admission to the College upon application (See University Admissions in Section Three)

Transfer Students

Students transferring into the College of Engineering from universities other than The University of Akron must satisfy the same College of Engineering Admission requirements as those students from The University of Akron.

Continuation in the Baccalaureate Programs

Academic Probation

A student is on academic probation when half or more of the credit hours or courses for any semester results in grades of D+, D, D, F, I, and/or W; the overall or engineering grade point average is less than 1.50; the overall or engineering grade point average for two consecutive semesters is less than 2.00; and the cumulative grade point average for all engineering courses is less than 2.00. Students should consult the Associate Dean, Undergraduate Studies for removal from Academic Probation.

Academic Suspension

A student who has been on Academic Probation for at least one semester, and who is not removed from probation by recommendation from the department head, shall be suspended from the College for a period of two consecutive semesters or a consecutive semester and a summer session only if the student's cumulative grade point average is greater than 2.00. If less than 2.00, the student shall be dismissed from the University unless accepted by another college within the University. Any student who attempts any course for a third time and obtains a grade below a C- shall be suspended from the College for two consecutive semesters or a consecutive semester and summer session.

Degrees

The College offers Bachelor of Science degrees in Biomedical Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Computer Engineering, Mechanical Engineering, Mechanical Polymer Engineering, and Engineering.

Requirements for Graduation

Compliance with University requirements, Section 3 of this Bulletin.

Completion of the requirements in the appropriate list of courses and a minimum of 137 credits of course work.

Recommendation of the student's department.

Achievement of 2.00 grade point average in all engineering course work attempted with 4XXX course prefix.

Engineering Accreditation

Engineering is that profession in which knowledge of mathematics and natural sciences, gained by study, experience, and practice, is applied, with judgement, to develop ways to utilize economically the materials and force of nature for the benefit of mankind.

Admission to the engineering profession is normally through a university undergraduate program in one of the disciplines of engineering. Curricular criteria are established by academic and industrial representatives that sit on the Accrediting Board for Engineering and Technology (ABET). The curricular criteria under which Akron's Engineering programs are currently accredited are:

- · One year of mathematics and basic science
- · One-half year of humanities and social sciences
- One year of engineering science
- One-half year of engineering design

In addition, the ABET 2000 Criteria requires that (1) each program shall make a formal assessment of each student's ABET Required Abilities and (2) that a process must exist by which the student assessments can be used to modify the educational delivery process. The ABET Required Student Abilities are:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs.
- An ability to identify, formulate, and solve engineering problems.
- An ability to communicate effectively.
- An ability to use the techniques, skills, and modem engineering tools necessary for engineering practice.
- An ability to function on multidisciplinary teams.
- An understanding of professional and ethical responsibility.
- The broad education necessary to understand the impact of engineering solutions in global and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.

The Chemical Engineering Program, the Civil Engineering Program, the Electrical Engineering Program, and the Mechanical Engineering Program are ABET accredited programs. The new programs in Biomedical Engineering, Computer Engineering and Mechanical Polymer Engineering will be submitted for accreditation when eligible.

Cooperative Education

The optional cooperative education program provides for a coordinated sequence of alternate periods of classroom instruction and employment during the five-year program.

The cooperative program simultaneously provides for the development of fundamental principles in the classroom and for their application in practice. The student has the opportunity to find the type of work and organization in which the student can best apply individual ability. The student gains an appreciation of the problems of labor and management by first-hand experience. The student develops mature judgement by coping with the everyday problems. The employer of a co-op student has the ability to train and select a student whose abilities and aptitudes can be adapted to the needs of technical staff requirements.

While a student is at work, all rules and regulations prescribed by the employer must be obeyed. In addition, the student is subject to all current labor laws and conditions. The student is considered a full-time student by the University while on industrial assignments.

The University does not guarantee employment, but makes every effort to place a student in the best learning situation that is consistent with the acquisition of sound professional experience.

PROGRAMS OF INSTRUCTION

4200: Chemical Engineering

Chemical engineering education develops the student's intellectual capacity and ability to apply the principles of transport phenomena, thermodynamics, and chemical reaction kinetics to the creative resolution of technological problems.

All engineers are trained in the application of mechanics, materials, economics, systems, and controls. Chemical engineers, however, apply chemical principles to design, evaluate, build, and operate systems capable of converting inexpensive raw materials into marketable products via chemical reactions, biological processes, and physical separations.

The chemical engineer finds career opportunities in the chemical process industries, usually involving polymer production, petroleum refining, environmental remediation, materials research and development, process design and development, and process operations and control. In addition, chemical engineers are increasingly in demand in such areas of current interest as process simulations, biotechnology, supercritical fluid processes, and solids processing. Critical thinking skills developed throughout the curriculum enables chemical engineers to succeed in other fields including medicine, patent law, and international business.

The chemical engineering program maintains a balance between theory and practice to prepare students for careers in a highly technical global society. The curriculum stresses the integration of mathematics, science, and chemical engineering fundamentals throughout the program. At each level of the program, from freshman through seniors, students have the opportunity to gain experience in a wide range of emerging technologies through laboratory courses and design or research electives. Exciting work is performed in biocompatible polymeric materials, biological cellular and enzymatic processes, nanocomposite materials, chemical vapor deposition, computational molecular science, microscale separations, advanced process control, green chemistry, and novel catalytic reactions. Students are also encouraged to gain important practical experience through the optional cooperative education program.

Mission: The goal of the Chemical Engineering Department is to prepare baccalaureate graduates with the necessary skills so that they can contribute to a highly technical global society through their professional careers. The philospophy of the Chemical Engineering faculty is to provide a strong theoretical foundation supported by practical applications of that knowledge, which is consistent with the mission of The University of Akron.

The specific educational objectives of the Chemical Engineering Program are to educate chemical engineers who can:

- A. Solve chemical engineering, materials engineering, or biotechnology problems through the application of engineering fundamentals and the use of engineering tools;
- B. Understand practical aspects of engineering, including the abilities to design and conduct experiments and to analyze and interpret both experimental and production data;
- C. Apply their theoretical and practical knowledge to the design of engineering systems, components and processes;
- D. Function as practicing engineers, including the ability to communicate well, work effectively on a team, learn independently, and act ethically in their professional duties;
- E. Understand the impact of engineering solutions on society; and
- F. Continue their professional development through continuing education, including graduate studies.

The chemical engineering program is accredited by ABET and meets the curriculum requirements specified by the American Institute of Chemical Engineers. Graduates must demonstrate:

- a thorough grounding in chemistry including organic and physical and a working knowledge of advanced chemistry such as inorganic, analytical, materials chemistry, polymer science or biochemistry.
- a working knowledge of material and energy balances, thermodynamics, heat, mass, and momentum transfer, chemical reaction engineering, separation processes, process dynamics and control, and process economics and design.
 Graduates must be able to:
- Relate chemical structure to material properties.
- Apply first principles in order to analyze and solve chemical engineering problems including comprehensive, open-ended design problems.
- Develop experiments from proposed hypotheses and interpret data.
- Pose and develop practical solutions to chemical engineering problems which include the limitations of environmental, safety, and ethical constraints.
- Design and select optimal processes for chemical production.

- Select and use computational tools (spreadsheets, numerical methods, process simulators) to design, analyze, and solve chemical engineering problems.
- · Work effectively in teams.
- · Write and speak effectively in a technical setting.
- · Independently assimilate new concepts to facilitate life-long learning.
- The Chemical Engineering curriculum consists of:
- · General Education --- 29 credits.

•	Natural scienc	e:	Credits
	3150:151,2,3 3150:154 3450:221,2,3 3450:335 3450:xxx 3650:291,2	Principles of Chemistry (Lab, II Qualitative Analysis Analytic Geometry-Calculus I, II, III Introduction to Ordinary Differential Equations Advanced Mathematics Elective Elementary Classical Physics I, II	7 2 12 3 2 8
•	Advanced che	mistry:	
	3150:263,4 3150:265 3150:313,4	Organic Chemistry I, II Organic Chemistry Laboratory Physical Chemistry I, II	6 2 6
٠	Engineering o	pre:	
	4200:121 4200:305 4300:201 4400:320	Chemical Engineering Computations Materials Science Statics Basic Electrical Engineering	2 2 3 4
•	Chemical engi	ineering:	
	4200:101 4200:200 4200:225 4200:321 4200:330 4200:341 4200:351 4200:353 4200:360 4200:435 4200:441 4200:442	Tools for Chemical Engineering Material and Energy Balances Equilibrium Thermodynamics Transport Phenomena Chemical Reaction Engineering Process Economics Fluid and Thermal Operations Mass Transfer Operations Chemical Engineering Laboratory Process Analysis and Control Process Design I Process Design I	3 4 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3
•	Electives:		
		4700:407 or Advanced Chemistry Elective Engineering Design (two courses) Chemical Engineering Science Electives	3 6 3
-			

Students are required to achieve a C- or better in course 4200:200 to continue taking 4200:300 level courses and above.

Students enrolled prior to Spring 1998 semester in Chemical Engineering should contact the department for the transition schedule.

Polymer Engineering Specialization Certificate

Required:					
4200:408	Polymer Engineering	3			
Chemical Engi	ineering students must select one course f	rom the Polymer			

Polymer Engineering Group:

4700:425 4700:427	Introduction to Blending and Compounding of Polymers Mold Design	3 3
Polymer Scier	nce Group:	
4700:401	Introduction to Elastomers	3
4700:402	Introduction to Plastics	3
4700:407	Polymer Science	4

BS/MS in Chemical Engineering

The five-year BS/MS program in Chemical Engineering provides superior undergraduate students with the opportunity to complete a master's of science degree in Chemical Engineering with additional year of study beyond their bachelor of science Chemical Engineering degree at The University of Akron. The program is only available to bachelor of science Chemical Engineering students at The University of Akron. Applications are accepted in the spring of the junior year.

4200:600	Transport Phenomena	3
4200:605	Chemical Reaction Engineering	3
4200:610	Classical Thermodynamics	3
4200:631	Chemical Engineering Analysis	3
	Chemical Engineering Electives	3
	Approved Electives	6
	Approved Mathematics	3
	Master's Thesis	6

4300: Civil Engineering

Civil Engineers plan, design, build, and operate the infrastructure of modern society. This includes highways, bridges, large buildings, power plants, industrial facilities, tunnels, seaports, airports, offshore structures and almost anything else needed as the basis of modern life. Civil engineers are also vigorously engaged in environmental activities, particularly creating safe water supplies and transporting it to where it is needed, collecting and treating wastewaters, cleanup of environmental problems, and insuring the safe disposal of solid wastes.

To achieve the high level of professional competence needed, an extensive study of mathematics, mechanics (both solids and fluids), engineering materials, and environmental reactions is required. The civil engineering sub-topics that utilize these fundamentals are environmental, geotechnical, hydraulic, structural, and transportation engineering. The civil engineering curriculum at The University of Akron insures a firm grounding in all these sub-topic areas, while allowing a specialization, if desired, in the environmental, geotechnical, transportation, and structural areas. Engineering design problems are incorporated into courses in each area. The senior civil engineering design course presents a problem to involve any one, or possibly all, of these areas in the design of complex systems.

Most civil engineering graduates work for design consultants, construction companies, or governmental agencies at all levels. Others work for industrial firms and utilities. Many civil engineers own their own businesses.

The curriculum is designed to emphasize the fundamentals which places the graduate in a strong position to pursue further education, formally or informally, and to begin a career in any of the above areas.

To meet the curriculum requirements specified by the American Society of Civil Engineers (ASCE) for ABET accreditation, the civil engineering program will prepare students who have the following attributes:

- An ability to apply knowledge of mathematics, science and engineering.
- An ability to design and conduct experiments, analyze and interpret data.
- An ability to design a system, component or process to meet desired needs.
- An ability to identify, formulate, and solve structural, environmental, hydraulic, geotechnical and transportation problems.
- An ability to communicate effectively with written, oral and visual means in both technical and non-technical settings.
- An ability to function on multi-disciplinary teams.
- An ability to design a civil engineering component or system with an understanding of professional and ethical responsibility.
- Have the broad education necessary to understand the impact of civil engineering solutions in a global and societal context.
- A recognition of the need for and an ability to engage in life-long learning.
- An ability to use techniques, skills and modern engineering tools necessary for civil engineering practice.
- General Education 29 credits

4300:490

Senior Design

•	Natural Scienc	e:	Credits
	3150:151,2,3	Principles of Chemistry I/Lab, II	7
	3370:101	Introductory Physical Geology	4
	3450:221,2,3	Analytic Geometry-Calculus I, II, III .	12
	3450:335	Introduction to Ordinary Differential Equations	3
	3650:291,2	Elementary Classical Physics I,II	8
•	Engineering C	ore:	
	4300:201	Statics	3
	4300:202	Introduction to Mechanics of Solids	3
	4400:320	Basic Electrical Engineering	4
	4600:203	Dynamics	3
	4600:305	Thermal Science	2
	4600:310	Fluid Mechanics	3
•	Civil Engineeri	ng:	
	4300:101	Tools for Civil Engineering	3
	4300:230	Surveying	3
	4300:306	Theory of Structures	3
	4300:313	Soil Mechanics	3
	4300:314	Geotechnical Engineering	3
	4300:321	Intro to Environmental Engineering	3
	4300:323	Water Supply and Pollution Control	3
	4300:341	Hydraulic Engineering	4
	4300:361	Transportation Engineering	3
	4300:380	Engineering Materials Laboratory	3
	4300:390	Civil Engineering Seminar	1
	4300:401 or 403	Steel or Reinforced Concrete Design	3
	4300:471	Construction Administration	3

Electives:		Credits
	Technical Electives	12
	(One course required: a Civil Engineering Design course)	
Mathemati	cs Elective (Choose one of the following):	
3450:427	Applied Numerical Methods I	3
3470:461	Applied Statistics	4
4600:360	Engineering Analysis	3
	Electives: Mathemati 3450:427 3470:461 4600:360	Electives: Technical Electives (One course required: a Civil Engineering Design course) Mathematics Elective (Choose one of the following): 3450:427 Applied Numerical Methods I 3470:461 Applied Statistics 4600:360 Engineering Analysis

4400: Electrical Engineering

The branches of electrical engineering include: research, development, design, manufacture and operation of electrical and electronic projects, services, and systems for instrumentation, automation, communication, power generation and distribution and computation.

The growth of electronics has been accelerated by the space age and the emergence of the high speed digital computer. There is hardly a segment of the economy that has not been influenced by electronics. The computer has found its way into virtually all aspects of modern life. A student wishing to specialize in computer engineering will find appropriate electives available.

The wide use of electrical means of measurement, control and computation has resulted in the need for electrical engineers in all types of industries. Varied employment opportunities are available.

The Electrical Engineering Program is accredited by ABET and meets the curriculum requirements specified by the Institute for Electrical and Electronic Engineers. The program is designed to meet career needs of its graduates, and the requirements of industrial employers and advanced educational programs, such as law schools, medical schools and graduate programs in electrical engineering. The educational objectives of the program are that its graduates

- achieve competitively compensated entry level positions or entry into programs of advanced study in areas of their interest,
- prove themselves to be highly competent in engineering and related practice,
- · continue to develop professionally, and
- exhibit high standards of ethical conduct and citizenship.

Additionally, the program supports creativity and excellence in the practice of electrical engineering, and the advancement of knowledge.

The program is continuously updated and improved through a well defined assessment process, assuring that graduates are prepared to meet the above objectives by achieving:

- the ability to apply mathematics, science and engineering knowledge specified in IEEE ABET 2000 criteria, to the identification, formulation and solution of electrical engineering problems.
- specialized engineering knowledge in areas of interest related to career objectives
- the ability to use tools of modern engineering practice effectively, including laboratory instruments, computational and communication software, and the Internet
- · proficiency in oral, written and visual communications
- the ability to work effectively in interdisciplinary teams and within engineering organizations
- · the ability and motivation to extend their competence into new areas
- an understanding of safety, environmental, intellectual property and societal impact issues in electrical engineering, and
- awareness of and tolerance for cultural diversity in the practice of engineering.
- General Education 29 credits.
- Natural science:

3

3150:151,2,	Principles of Chemistry I/Lab	4
3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
3450:335	Introduction to Ordinary Differential Equations	3
3650:291,2	Elementary Classical Physics I, II	8
Engineering co	ore:	
4200:305	Materials Science	2
4300:201	Statics	3
4300:202	Introduction to Mechanics of Solids	3
4600:203	Dynamics	3
4450:208	Programming for Engineers	3
4600:305	Thermal Science	2

•	 Electrical engineering: 		Credits
	4400:101	Tools for Electrical and Computer Engineering	3
	4400:231,332	Circuits I, II	6
	4400:263	Switching and Logic	4
	4400:340	Electric Circuits Laboratory	2
	4400:341	Communications and Signal Processing	3
	4400:343	Signals and Systems	4
	4400:353,4	Electromagnetic I, II	7
	4400:360	Physical Electronics	3
	4400:361	Electronic Design	4
	4400:371	Control Systems I	4
	4400:381	Energy Conversion	3
	4400:385	Energy Conversion Lab	2
	4400:401, 2	Senior Project I, II	5
•	Electives:	Electrical Engineering Electives	18

4450: Computer Engineering

Computer engineering applies computer technology along with traditional engineering science to address systems in which computing is an essential function. Such systems include the smart device or instrument, the flexible manufacturing system and communication system that characterizes the information age. Computer engineering covers a demanding range of science and technology, combining software with hardware, and the discrete with the continuous.

The Computer Engineering Program meets the curriculum requirements specified by the Institute for Electrical and Electronic Engineers. The program is designed to meet career needs of its graduates, and the requirements of industrial employers and advanced educational programs such as law schools, medical schools and graduate programs in computer engineering. The educational objectives of the program are that its graduates

- achieve competitively compensated entry level positions or entry into programs of advanced study in areas of their interest,
- · prove themselves to be highly competent in engineering and related practice,
- · continue to develop professionally, and
- · exhibit high standards of ethical conduct and citizenship.

Additionally, the program supports creativity and excellence in the practice of computer engineering, and the advancement of knowledge.

The program is continuously updated and improved through a well defined assessment process, assuring that graduates are prepared to meet the above objectives by achieving:

- the ability to apply mathematics, science and engineering knowledge specified in IEEE ABET 2000 criteria, to the identification, formulation and solution of computer engineering problems.
- specialized engineering knowledge in areas of interest related to career objectives
- the ability to use tools of modern engineering practice effectively, including laboratory instruments, computational and communication software, and the Internet
- proficiency in oral, written and visual communications
- the ability to work effectively in interdisciplinary teams and within engineering organizations
- the ability and motivation to extend their competence into new areas
- an understanding of safety, environmental, intellectual property and societal impact issues in electrical engineering, and
- · awareness of and tolerance for cultural diversity in the practice of engineering.
- General Education 29 credits
- Natural science:

	3150:151,2 Principles of Chemistry I, Laboratory	4
	3450:208 Introduction to Discrete Mathematics	4
	3450:221,2,3 Analytic Geometry-Calculus I,II,III	12
	3450:335 Introduction to Ordinary Differential Equations	3
	3650:291,2 Elementary Classical Physics I,II	8
•	Computer Engineering:	
	4450:330 Computer Systems	3
	4450:370 VLSI Design	3
	4450:495,6 Design Project I,II	5
•	Computer Science:	
	3460:209 Introduction to Computer Science	4
	3460:210 Data Structures & Algorithms I	4
	3460:316 Data Structures & Algorithms II	3
	3460:465 Computer Organization	2

•	Electrical	Engineering:	Credits
	4400:101	Tools for Electrical and Computer Engineering	3
	4400:231,3	32 Circuits I, II	6
	4400:263	Switching and Logic	4
	4400:340	Circuits Laboratory	2
	4400:341	Communications and Signal Processing	3
	4400:343	Signals and Systems	4
	4400:360	Physical Electronics	3
	4450:375	Operating Systems Concepts	3
	4400:451	Electromagnetic Compatibility	3
	4400:465	Programmable Logic	3
•	Electives	:	
	Cor	mputer Engineering Electives	18

4600: Mechanical Engineering

Mechanical engineers design and analyze physical systems and are employed in a variety of industries in different capacities. Mechanical engineers play important roles in many types of companies, including automotive, petroleum, energy generation and conversion, aerospace, tire, consulting, chemical, electronic, and manufacturing.

The Mechanical Engineering curriculum at The University of Akron is designed to give the student knowledge of fundamental principles of the (1) thermal/fluids stem, (2) structures and motion stem, and (3) controls stem of mechanical engineering, as well as the application of these principles to pertinent problems. A significant measure of the mechanical engineering education is the degree to which it has prepared the graduate to pursue a productive engineering career that is characterized by continued professional growth.

To meet the curriculum requirements specified by The American Society of Mechanical Engineers (ASME) for ABET accreditation, the undergraduate program in Mechanical Engineering must satisfy the following program outcomes:

- Apply energy, momentum, continuity, state and constitutive equations to thermo-fluid and mechanical systems in a logical and discerning manner.
- Design and perform laboratory experiments for thermal, fluid and mechanical systems to gather data and test theories.
- Design thermal, fluid and mechanical and control systems to meet specifications.
- · Participate effectively in the same-discipline and cross disciplinary groups.
- Identify, formulate, solve thermal, fluid and mechanical engineering problems by applying first principles, including open-ended problems.
- Develop practical solutions for mechanical engineering problems under ethical constraints.
- · Communicate effectively with written, oral and visual means in a technical setting.
- Recognize the fact that solutions may sometimes require non-engineering considerations such as art and impact on society.
- Be prepared for a lifetime of continuing education.
- Recognize environmental constraints and safety issues in engineering.
- An ability to use modern modeling and simulation techniques and computing tools.
- General Education 29 credits.

Natural science:

3150:151,2,3	Principles of Chemistry I/Lab, II	7
3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
3450:335	Introduction to Ordinary Differential Equations	3
3650:291,2	Elementary Classical Physics I, II	8
Engineering	core:	
4300:201	Statics	3
4300:202	Introduction to Mechanics of Solids	3
4400:320	Basic Electrical Engineering	4
4600:165	Tools for Mechanical Engineering	3
4600:203	Dynamics	3
4600:300	Thermodynamics I	4
4600:310	Fluid Mechanics	3

Mechanical	engineenng:	Credits
4600:301	Thermodynamics II	3
4600:315	Heat Transfer	3
4600:321	Kinematics of Machines	3
4600:336	Analysis of Mechanical Components	3
4600:337	Design of Mechanical Components	3
4600:340	Systems Dynamics and Response	3
4600:360	Engineering Analysis	3
4600:380	Mechanical Metallurgy	2
4600:400	Thermal System Components	3
4600:401	Design of Energy Systems	2
4600:431	Fundamentals of Mechanical Vibrations	3
4600:441	Control Systems Design	3
4600:460	Concepts of Design	3
4600:461	Design of Mechanical Systems	2
4600:483	Mechanical Engineering Measurements Laboratory	2
4600:484	Mechanical Engineering Laboratory	2

Electives:

Electives must include three credits from Mechanical Engineering Design Electives, three credits from Technical Electives, three credits from Mechanical Engineering Technical Electives, and three credits from Math/Science Electives.

Polymer Engineering Specialization Certificate

Mechanical Engineering students may earn a Polymer Engineering Specialization Certificate by taking one of the following courses:

4700:401	Introduction to Elastomers
4700:402	Introduction to Plastics
4700:407	Polymer Science

and the following two courses:

4700:425	Introduction to Blending and Compounding of Polymers
4700:427	Mold Design

A mechanical engineering student may choose a Design of Energy Systems or Design of Mechanical Systems polymer-related project in lieu of one of the above 4700 polymer engineering courses with approvals from the chairs of the Department of Mechanical Engineering and the Department of Polymer Engineering.

Motion and Control Specialization Certificate

Mechanical Engineering students and life-long learners may earn the Motion and Control Specialization Certificate by taking the following courses:

4600:442/542	Industrial Automatic Control	3
4600:444/544	Robot Design and Control Applications	3
4600:670	Intregrated Flexible Manufacturing Systems	3

4700: Mechanical Polymer Engineering

The Department of Mechanical Engineering in cooperation with the Department of Polymer Engineering has developed the undergraduate program in Mechanical Polymer Engineering. This program integrates mechanical engineering science and design with polymer processing science and technology.

The Mechanical Polymer Engineering curriculum at The University of Akron is designed to give the student knowledge of fundamental principles as well as the application of these principles to polymer processing problems. A significant measure of the Mechanical Polymer Engineering education is the degree to which it has prepared the graduate to pursue a productive engineering career in the polymer industry that is characterized by continued professional growth.

To meet the curriculum requirements specified by The American Society of Mechanical Engineers (ASME) for ABET accreditation, the undergraduate program in Mechanical Polymer Engineering must satisfy the following program outcomes:

- An ability to apply knowledge of mechanical behavior of polymeric fluids and solid polymers in a logical and discerning manner.
- An ability to apply energy, momentum, continuity, and constitutive equations to interdisciplinary mechanical-polymer systems.
- Develop, design and perform laboratory experiments for interdisciplinary mechanical-polymer systems to gather data and test theories.
- Design of mechanical and polymeric components and machinery to meet the desired steady state or transient specification.
- · Participate effectively in the same-discipline and cross disciplinary groups.
- An ability to identify, formulate and solve mechanical and polymer engineering problems by applying first principles, including open ended problems.

- Develop practical solutions to mechanical and polymer engineering problems under ethical constraints.
- An ability to communicate effectively with written, oral and visual means in a technical setting.
- Recognition of the fact that solutions may sometimes require non-engineering considerations such as art and impact on society.
- · Be prepared for a lifetime of continuing education.
- Recognition of environmental constraints and safety issues in engineering.
- An ability to use modern modeling and simulation techniques and computing tools.

The Accreditation Board for Engineering and Technology will evaluate the Mechanical Polymer Engineering program at the next accreditation visit.

General Education - 29 credits

Natural Science:		Credits
3150:151,2,3	Principles of Chemistry (Lab, II	7
3450-335	Introduction to Ordinany Differential Equations	3
3650:291 2	Flementary Classical Physics 1 II	8
Engineering (Core:	Ū
4300-201	Statics	3
4300.201	Intro to Mechanics of Solids	3
4400:320	Basic Electrical Engineering	4
4600:165	Tools for Mechanical Engineering	3
4600:203	Dynamics	3
4600:300	Thermodynamics t	4
4600:310	Fluid Mechanics	3
Mechanical E	ngineering:	
4600:301	Thermodynamics II	3
4600:315	Heat Transfer	3
4600:336	Analysis of Mechanical Components	3
4600:337	Design of Mechanical Components	3
4600:340	Systems Dynamics and Response	3
4600:360	Engineering Analysis	3
4600:380	Mechanical Metallurgy	2
4600:400	Thermal System Components	3
4600:431	Fundamentals of Mechanical Vibrations	3
4600:441	Control Systems Design	3
4600:460	Concepts of Design	3
4600:483	Mechanical Engineering Measurements Laboratory	- 2
Polymer Engi	neering-Polymer Science:	
4700:281	Polymer Science for Engineers	2
4700:381	Polymer Morphology for Engineers	3
Polymer Engi	neering:	
4700:321	Polymer Fluid Mechanics	3
4700:422	Polymer Processing	3
4700:425	Intro to Blending and Compounding of Polymers	3
4700:427	Mold Design	3
4700:450	Engineering Properties of Polymers	3
4700:451	Polymer Engineering Laboratory	2
4600:461	Design of Mechanical Systems or	2
4600:401	Design of Energy Systems or	2
4700:499	Polymer Engineering Projects	2

The 4700 courses are taught and administered for course content and faculty assignments by the College of Polymer Science and Polymer Engineering.

4800: Biomedical Engineering

Biomedical Engineering is a highly interdisciplinary field of engineering which combines a fundamental understanding of engineering principles with an appreciation of the life sciences. Biomedical Engineers are prepared to solve problems in the health care industry and interact equally with other engineers and health care professionals. Students are prepared to embark on careers in research, design and development of medical devices, instrumentation, analysis tools, clinical evaluation methods, systems and processes, and other forms of medical technology.

The development of an in-depth understanding of the fundamentals of engineering is essential and therefore a degree in Biomedical Engineering focuses first on core engineering course work, followed by advanced applications specific to the field of Biomedical Engineering. To maintain a core understanding of engineering, the program is divided into two tracks: Biomechanics and Instrumentation, Signals and Imaging. The Biomechanics track is designed for those students who would pursue a Mechanical Engineering background with specialization in the areas of cardiovascular, orthopedic, rehabilitation engineering and system simulations. The Instrumentation, Signals and Imaging track is designed for those students who wish to pursue an Electrical Engineering background with specialization in biomedical instrumentation, signal and image processing, imaging devices and detectors and system simulations.

Students in the Department of Biomedical Engineering receive individual advising in their areas of interest. Graduates of the program will be prepared to apply their knowledge of engineering and medicine to design, test and evaluate systems or system components to be used in the health care industry, to design and develop research projects, including the analysis and interpretation of data and the dissemination of results, and to participate in other biomedical engineering problem solving activities. Graduates will also be well prepared to enter graduate study in Biomedical Engineering or Medical School. Evaluation of the Bachelor's Degree Program in Biomedical Engineering is ensured through the use of exit-interviews and an alumni tracking and survey procedure.

The Department of Biomedical Engineering has established the following program outcomes for obtaining ABET accreditation. Graduates should be able to demonstrate:

- An ability to apply basic knowledge of anatomy and physiology, as well as knowledge of fundamental conservation laws and constitutive laws in mechanical and biomechanical systems (for the Biomechanics Track) or fundamental conservation laws and principles of circuit analysis and design, electromagnetics and signal and image analysis to biomedical engineering (for the Instrumentation, Signals and Imaging Track).
- An ability to design, devise and conduct experiments in biomechanical systems/bioinstrumentation and analyze the results.
- An ability to design medical devices, systems or techniques to meet specific goals.
- An ability to participate effectively as a member of a multi-disciplinary team.
- An ability to recognize, define, evaluate and solve biomedical engineering problems.
- An understanding of professional and ethical responsibility in biomedical engineering.
- An ability to communicate effectively with multi-disciplinary groups using written, oral and visual means.
- The ability to appreciate the impact of biomedical engineering on society.
- The ability to pursue/sustain active professional growth.
- A knowledge of contemporary issues in medicine and engineering, as well as an awareness of current developments in society and technology.
- An ability to use modern techniques, skills and tools for biomedical engineering practice.

The Biomechanics track

•	General Educa	ation — 29 credits including:	Credits
	3250:244	Introduction to Economic Analysis	3
	3600:120	Introduction to Ethics	3
,	Natural Science	xe:	
	3150:132, 33	Principle of Chemistry I, II/Lab 1	7
	3450:221, 2, 3	Analytic Geometry - Calculus I, II, III	12
	3450:335	Introduction to Ordinary Differential Equations	3
	3650:291, 2	Elementary Classical Physics I, II	8
	3100:200, 1, 2, 3	Human Anatomy and Physiology I, II + Lab	8
Engineering Core			
	4200:305	Materials Science	2
	4300:201	Statics	3
	4300:202	Introduction to Mechanics of Solids	3
	4600:203	Dynamics	3
	4600:300	Thermodynamics	4

•	Mechanical E	ngineering	Credits
	4600:321	Kinematics of Machines	3
	4600:360	Engineering Analysis	3
	4600:416	Heat Transfer Process	3
	4600:420	Intro to the Finite Element Method	3
•	Electrical Eng	jineering	
	4400:320	Basic Electrical Engineering	4
•	Biomedical E	ngineering	
	3470:461	Applied Statistics I	4
	4800:101	Tools for Biomedical Engineering	3
	4800:111	Introduction to BME Design	2
	4800:305	Introduction to Biophysical Measurement	3
	4800:310	Modeling & Simulation in Biomedical Systems	3
	4800:360	Biofluid Mechanics	3
	4800:365	Mechanics of Biological Tissues	3
	4800:400	Biomaterials	3
	4800:460/560	Experimental Techniques in Biomechanics	3
	4800:491	BME Design I	2
	4900-402	RME Decian II	2

Electives:

Electives must include three credits from Biomedical Engineering and six credits from a list of approved electives from Biomedical Engineering, Mathematics, Physics, Polymer Engineering, Electrical Engineering or Mechanical Engineering.

The Instrumentation, Signals and Imaging track

General Education — 29 credits including

	•	
3250:244	Introduction to Economic Analysis	3
3600:120	Introduction to Ethics	3
Natural Science	e:	6
3150:132, 33	Principle of Chemistry I, II/Lab 1	7
3450:221, 2, 3	Analytic Geometry - Calculus I, II, III	12
3450:335	Introduction to Ordinary Differential Equations	3
3650:291, 2	Elementary Classical Physics I, II	8
3100:200, 1, 2, 3	Human Anatomy and Physiology I, II + Lab	8
Engineering C	ore	
4200:305	Materials Science	2
4300:201	Statics	3
4450:208	Programming for Engineers	3
4600:203	Dynamics	3
4600:305	Thermal Science	2
Electrical Engi	neering	
4400:231, 332	Circuits I, II	6
4400:340	Electrical Circuits Lab	1
4400:353	Electromagnetics I	3
4400:360	Physical Electronics	3
4400:363	Switching and Logic	4
Biomedical En	gineering	
3470:461	Applied Statistics !	4
4800:101	Tools for Biomedical Engineering	3
4800:111	Introduction to BME Design	2
4800:220	BME Signal Analysis	3
4800:305	Introduction to Biophysical Measurement	3
4800:310	Modeling & Simulation in Biomedical Systems	3
4800:325	Design of Medical Devices	3
4800:400	Biomaterials	3
4800:420	Biomedical Signals and Image Processing	3

4800:492 Electives:

4800:491

4800:430/530

Electives must include three credits from Biomedical Engineering and six credits from a list of approved electives from Biomedical Engineering, Mathematics, Physics, Polymer Engineering, Electrical Engineering or Mechanical Engineering.

Design of Medical Imaging Systems

BME Design !

BME Design II

3

2

2

Bachelor of Science in Engineering

This degree program was established to introduce flexibility into the College of Engineering. Within the 66 credits of the option portion of the program, a student can pursue a focused curriculum in areas such as business administration, industrial management, environmental engineering, biomedical engineering, and premedicine. The program of study may be very narrow as in the case of a student wishing to specialize in structural design, foundation and soil mechanics. For another student interested in patent law, the program may be broad, touching on chemical, mechanical, and electrical engineering subjects. The individual's program is designed to meet each student's announced goals.

Admission

Admission to the program is restricted. A student requests admission by letter to the dean of the College of Engineering, outlining in some detail the particular objective and how the Bachelor of Science in Engineering program may enable the student to prepare for career goals. The mathematics, physics, and chemistry requirements are identical to those of the ABET accredited programs in Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering.

General Curriculum Requirements

General Education and Science Core	61
Program Options Engineering	40
Program Options	26
Free Electives, adviser approval	10

College of Education

Elizabeth J. Stroble, Ph.D., Dean

Robert K. Eley, Ed.D., Assistant Dean for Student Affairs, Associate Dean for Academic Affairs

OBJECTIVES

The purpose of the College of Education is to further the objectives of the University by providing quality programs for the student of education and by helping the student attain the following:

- Special experiences, knowledge and skills particularly useful for teaching in urban and inner-city educational institutions, in keeping with the urban missions of the University.
- A knowledge of a major field and related fields of inquiry and the ability to use this knowledge in explaining the realities of life today.
- A knowledge of instructional materials and new technology and skill in recognizing and utilizing instructional tools most suitable for specific purposes.
- A knowledge of the social issues relevant to education and living in a pluralistic society and the competence to translate implications of changes in society into instructive action as teacher-citizens as well as teacher-scholars.
- An understanding of the learner and the learning processes and the ability to translate these into appropriate teaching behaviors in acting and reacting with students.
- Skills in the acquisition of inquiry techniques appropriate to generalizing knowledge and choices, and practice in using them to inquire into educational problems in rational, defensible ways.
- Human relations skills, including an appreciation of the values and feelings essential for working with young people and with adults, and the ability to develop relationships in a wide variety of professional and social roles in an educational or community setting.

To achieve these objectives, the College offers programs for the preparation of teachers and other educational personnel pre K-adult. The bachelor's, master, and doctoral degrees are awarded upon successful completion of the appropriate courses of study.

Programs include a balanced offering of a foundation in general education, intensive study in the teaching and/or administration content area, and those professional courses and other learning experiences which attempt to combine theory and practice.

The education program and courses presented in this bulletin reflect the most current courses and program offenings. For further information about specific programs and requirements, contact the Dean's office.

COLLEGE REQUIREMENTS

Selection, Admission, Retention, and Teacher Licensure*

The College of Education has selective admission, retention, and graduation requirements for the completion of a program at The University of Akron.

For all students applying to a College of Education teacher preparation program, the admission requirements outlined in the current UA Undergraduate Bulletin will be used to determine admission (or readmission) to all programs.

For retention through graduation, all decisions are made by the department, following the College's or department's approved criteria. Prior to admission to a program, Ohio requires all colleges and universities preparing teachers and educational personnel to assess students in the areas of oral and written communication, mathematics, academic aptitude and achievement, interpersonal relations and motivation. The University of Akron's College of Education admission procedures are designed to establish admission criteria, provide for assessments, allow for skills enhancement, reassessment and reapplication where appropriate, and support the admission of under-represented groups in education.

* These requirements do not apply to non-teacher licensure degree programs. See specific program requirements for those areas.

- General Education Requirements To be admitted to the College of Education, all students must be able to meet the following criteria: A student must have completed at least 30 semester hours of coursework. This coursework must include three semester hours in each of the required courses in mathematics, natural science, social science, and public/oral communications, four (4) semester hours in English composition and one (1) semester hour of physical education. Appropriate General Education equivalencies for transfer students will be determined by the University College Dean's Office. The remaining 13 semester hours must consist of general education coursework that meets the requirements of the University and the admission requirements of the department's program studies area.
- Grade-Point Average For admission, a student must have an overall GPA of 2.50. Also, students must have a GPA of 2.50 in their department's specified pre-admission coursework (30-32 credits).
- Post-Baccalaureate Grade-Point Average Upon review of previous course work and experience, post-baccalaureate students seeking admission to a COE teacher education program who have an overall GPA less than 2.50 but greater than 2.20 may be provisionally admitted to a teacher education program pending completion of courses as specified by departmental advisor with a GPA sufficient to raise overall GPA to 2.50.
- Basic Computer Literacy Student must demonstrate basic computer literacy by demonstrating mastery of hands-on computer skills on a test in the Education Resource Center computer laboratory. The student with no previous computer background/skill is advised to take a basic computer literacy course before attempting the test.
- College Mathematics All students must have at least a grade of "B" in three semester credit hours, subject to meeting the department's and the University's general education requirement, or a Pre-Professional Skills Test subscore in mathematics of 171 (score of 316 on computerized test version), or a passing score on AP Test in mathematics, or a passing score on the CLEP test.
- Reading and Writing All students must have at least a "B" in 3300:111
 English Composition I, or a Pre-Professional Skills Test Writing subscore of 169
 (score of 313 on computerized test version), and reading subscore of 171 (score
 of 317 on computerized test version), or a passing score on AP Test in English,
 or a passing score on English CLEP test.
- Speech and Hearing Ohio law requires that all education students take a speech and hearing test through a licensed professional and/or approved clinic. Students with deficiencies must follow through on recommended treatment.
- Bureau of Criminal Investigation Clearance Student must provide evidence of a current BCI clearance for admission to any teacher education licensure program. A BCI clearance is valid for 12 months from date of issue. Note that a current BCI clearance is also a requirement to be issued an Ohio teacher's license.
- College of Education Application All students must complete a College of Education application form.
- Admission Timeline Admission to a College of Education teacher preparation program is in effect for five years from the date of admission.

Important Note: New State licensure requirements go into full effect September 2, 2002. Any student who attains full admission to a teacher education Initial Program by completion of Fall Semester 1998 courses with the required grade point averages and all other entrance requirements, has the option of either a current certification program must complete all program requirements and be an approved applicant whose 4-year provisional certificate has been issued by the state of Ohio prior to Sept. 2, 2002. All other students, including those classified as entering freshmen for 1998-99 or thereafter, must complete new licensure requirements for Initial Programs. Students who question their status or options should seek College of Education advisement.

All criteria and procedures regarding selective admission and retention are available in the Office of Student Services, Zook Hall, The University of Akron, Akron, OH 44325, phone 330-972-6966.

Application for Admission to Professional Education Programs

All students are expected to complete an application for admission. Applications are available in the Dean's Office.

- References Students are expected to ask two individuals, not related to them, but who know them well, to complete a reference form attesting to their interpersonal skills and motivation level related to success as a career professional.
- Program Area of Study All students are expected to comply with requirements specified by the program to which they are applying. These are available in the department.

- Advisement All students will be assigned an advisor, who will complete an
 individual advisement program plan. In keeping with the philosophy of the
 College of Education's teacher education curriculum "Educator as Decision
 Maker," students are encouraged to see their program advisor as frequently
 as necessary to assure they are maintaining positive progress in their program.
- Retention Retention of students in each program will be evaluation-based. Students will have opportunities to upgrade their skills and achievement in areas where such needs may exist. Completion of program requirements will be reviewed annually by the student and advisor. Areas of strength and weakness are to be evaluated, and, if a student presents an area of weakness, the advisor will refer the student for remediation. Approval to student teach is contingent on the student's progress through the program of study with satisfactory grades. Graduation is contingent on completion of coursework, student teaching, G.P.A. of 2.5 overall, 2.5 in education classes, and 2.5 in the student's major.
- Licensure After graduation, students may apply for licensure through the Office of Student Affairs. The State of Ohio requires all applicants for licensure to submit a current BCI (Bureau of Criminal Investigation) Clearance. A BCI clearance is valid for 12 months from the date of issue. Ohio also requires all applicants for licensure to pass appropriate examination(s) for intended area(s) of licensure. Information about specific licenses can be obtained from the department or the Office of Student Affairs Licensure Coordinator.
- Course work Coursework over ten years old may not be applicable for certification/licensure. Check with your advisor regarding specific departmental policies.
- Transfer Students Transfer students will be expected to meet the same admission standards as Akron students.
- Post-Baccalaureate Students Qualified post-baccalaureate students will be admitted to the College of Education and to the appropriate department once they meet all requirements.

Bachelor's Degrees

A student prepares to teach any one of the following areas or fields: early childhood (prekindergarten through grade 3), middle childhood (grades 4 through 9) the conventional academic fields found in programs for adolescent to young adult students (grades 7 through 12), in special education as an intervention specialist for early childhood (P-3 mild/moderate/intensive), mild/moderate (K-12) or moderate/intensive) (K-12), the vocational fields of business and family consumer sciences (grades 4 and beyond) and postsecondary technical education. A minimum of 128 credits with a grade-point average of 2.50 overall, 2.5 in education classes, and 2.5 in the student's major must be completed to qualify for the bachelor's degree.

The specific subjects required for degrees in certain fields are set forth in subsequent pages. In all cases, the requirements include courses in General Education, content areas and professional education.

The Bachelor of Arts in Education degree is granted to those whose major is in one of the academic fields. The Bachelor of Science in Education is granted to those whose major is in the other special fields or in early childhood or middle childhood education.

The Bachelor of Science in Technical Education is awarded to those who complete the requirements of that program.

Teacher Education Program

Overview – The central theme of The University of Akron's Teacher Education Program is "Educator as Decision-Maker." This was chosen because the complexity of teaching is increasing and the professional knowledge base is growing. Consequently, the most important skill a future teacher can have is good decision making; knowing "when to do what." Decision making is reflected in the program's 17 beginning teacher competencies (BTC's), which are stressed throughout the program, in all courses and field experiences.

Beginning Teacher Competencies (BTC's) – Regardless of their area of certification, all teacher education students will receive training in the 17 competencies that the College's faculty believe every beginning teacher should have. They are: 1) Communication skills, 2) Characteristics of learners, 3) Planning and instruction, 4) Knowledge of teaching strategies, 5) Commitment to lifelong learning, 6) Problem solving, 7) Decision making, 8) Motivation, 9) Communication with parents, 10) Assessment, 11) Diversity of learners, 12) Appreciation of the right of equal access to education, 13) Use of instructional resources, 14) Knowledge of health and safety needs, 15) Ability to structure subject matter, 16) Classroom management, and 17) Knowledge of a specialty area. These competencies include knowledge, skills, attitudes, and values.

Students must complete appropriate 5050 courses with grades of 'C' or better before being allowed to progress to the next phase of professional education courses.

Professional Preparation

Built on a foundation of general studies that begins prior to admission, the Teacher Education Program is organized into four phases that reflect how teachers can learn to make good decisions.

- Phase I. Learning About Learners, "How can I use information about myself and others to understand decisions about students and learners?"
- Phase II. Learning About Teaching, "How do I use principles of learning to make instructional decisions?"
- Phase III. Learning to Apply the Principles of Teaching, "How do I make instructional decisions for specific groups of students?"
- · Phase IV. Learning to Teach, "How do I make the best decisions for students?"

During each phase of the program, students take a combination of core courses, field experiences, and courses in their program studies area that are tied to each phase. The core courses cover the knowledge base that is common for all teachers, regardless of their teaching field. The field experiences provide students with experience in schools from the very beginning of their program.

Program studies area courses are related to students' intended area of certification/licensure. In addition, students have an adviser to help plan what to study and to review what has been accomplished.

Some courses are taught in blocks, which permit students to integrate what they are learning. For example, students will take instructional design and instructional resources as a block; this provides an opportunity to plan instruction and develop resource materials for instruction at the same time. Additionally during their field and clinical experiences, teacher education students learn to apply what they are learning in courses.

The culminating experience for teacher education students is student teaching. Under the supervision of a team of college faculty and a classroom teacher, each student teacher begins to put newly developed competencies into practice.

Clinical and Field-Based Experiences

All teacher education students are required to participate satisfactorily in clinical and field-based experiences for a minimum of 600 hours prior to recommendation for certification/licensure for teaching in Ohio. These clinical and field-based experiences are designed to provide teacher education students with the opportunity to apply theory and skills related to their areas of licensure in at least onehalf of the clinical and field-based clock hours. The field-based experiences are planned in culturally, racially, and socio-economically diverse settings. Clinical experiences are those planned activities in which teacher education students apply the principles of the field of teaching to individual cases or problems.

Student Teaching

Student teaching is an all-day, full-time experience in an approved public or private school for either 11 (adolescent to young adult licenses) or 16 (early and middle childhood and multi-age licenses) weeks. Intervention Specialist student teaching is for 10 weeks. Placements are made in appropriate sites at the discretion of the Extended Educational Experience Officer.

All students must have their education adviser's recommendation and approval of the Teacher Education Review Committee prior to the student teaching experience.

To qualify for student teaching, students must have a 2.50 average overall, 2.5 in education classes, and 2.5 in the student's major, and in methods courses(as defined by departments), core courses and in their teaching field(s). Satisfactory completion of at least 300 hours of field and clinical experience is also required before student teaching.

Note: Music majors, before assignment for student teaching, are required to pass the General Musicianship Examination described in the music section of the College of Fine and Applied Arts. To avoid possible delay in graduation, it is necessary for the student to take the examination six months prior to the anticipated assignment for student teaching.

Licensure

Every teacher in Ohio public schools is required to have a teaching license covering the fields in which teaching is being done. This license is issued by the Ohio State Department of Education upon recommendation of the dean of the college. The student must provide evidence of a current BCI (Bureau of Criminal Investigation) Clearance, must pass appropriate examination requirements required in Ohio, complete the appropriate program requirements successfully, and be recommended for a teaching license. Application for the license may be obtained from the Office of Student Affairs, College of Education, Zook Hall 213; 330-972-7696.

Ohio Licensure Examination Pass-Rate Data*

Regular Teacher Preparation Program — Average Student Enrollment 3,300

1999-2000 School Year

*The following table reflects pass-rate data for Akron students who completed their teacher education preparation program and took the Praxis II licensure examination(s) required to receive an Ohio teaching license. This data, based on 352 completers submitted (340 found, matched, and used in passing-rate calculations) is for the most recent year reported to the Ohio Department of Education for Ohio's annual report to the U.S. Secretary of Education. As a point of comparison, Ohio's state-wide pass-rate average is also listed, and the column for National Pass Rate indicates the percentage of all individuals across the country who took the test and who would have passed it based upon Ohio's pass score for that test. In accordance with Federal guidelines for reporting, licensure tests for which fewer than 10 individuals are reported are not available for publication. Once a base number of 10 individuals have taken a particular examination, examination results for that academic licensure field will become a part of Akron's annual report. This information is updated annually to reflect the most recently known annual pass-rate for Akron program completers to receive an Ohio teaching license.

Student teaching at Akron ranges from 300 to 480 hours, depending upon the licensure program, and the student-faculty ratio in supervised student teaching is eight to one. Akron's teacher preparation program is fully approved/accredited by both the Ohio Department of Education and NCATE, National Council For Accreditation of Teacher Education. Akron has not been designated a low-performing institution.

Type of Assessment	Assessment Code Number	Number Taking Assessment	Number Passing Assessment	Univ.Akron Pass Rate (Percent)	State-Wide Pass Rate (Percent)	National Pass Rate (Percent)
Basic Sides GENERAL KNOWLEDGE	0510	199	191	96	97	NVA
Professional Knowledge PROFESSIONAL KNOWLEDGE	0520	196	186	100	100	NKA
PRINCIPLES OF LEARNING & TEACHING K-6	0522	76	67	88	89	70
PRINCIPLES OF LEARNING & TEACHING 7-12	0524	70	65	93	95	93
Academic Content Areas EDUCATION IN THE ELEMENTARY SCHOOL	0010	122	122	100	100	NKA
ELEMENTARY CURRICULUM, INSTRUCTION & ASSESSMENT	0011	51	44	86	93	73
ENGLISH CONTENT KNOWLEDGE	0041	10	9	90	82	68
SOCIAL STUDIES CONTENT KNOWLEDGE	0080	21	19	90	92	73
MUSIC	0113	18	16	89	94	78
SPECIAL EDUCATION KNOWLEDGE-BASED CORE PRINCIPLES	0351	29	29	100	99	82
SPECIAL EDUCATION APPLICATION OF CORE PRINCIPLES	0352	28	24	86	96	72

Students Enrolled in Other Colleges at The University of Akron

All students, regardless of the degree-granting college in which they are enrolled, must fulfill requirements for admission to a teacher education program within the College of Education and must comply with procedures on selective admission and retention, and recommendation for certification. (Please see requirements listed elsewhere in the bulletin section.)

Cooperative Education

The requirements for participation in the Co-op Program are as follows. The student must:

- Be admitted to the College of Education, which requires completion of 30 credit hours with at least a 2.50 overall grade-point average.
- Sign an agreement card which states that participation in Cooperative Education will not meet College of Education or State of Ohio requirements for clinical/field experience or student teaching.

- Agree to abide by all rules and regulations of Cooperative Education.
- Apply for admission to Cooperative Education through the completion of a Cooperative Education workshop.

PROGRAMS OF INSTRUCTION

5200: Early Childhood Education

http://www.uakron.edu/edcurr/licensure

Contact Dr. Susan Olson, Department Chair (solson@uakron.edu), for more information.

Early Childhood

Prior to admission, students must complete 36 credit hours of coursework with a 2.50 GPA. These requirements provide Early Childhood majors with the breadth of knowledge (science, written and oral communication, math and social studies) they will need to make decisions in the Early Childhood setting. Students admitted to Early Childhood Education must achieve a grade of "C" or higher in all 5200 courses to be eligible to student teach and graduate from the College of Education. Other admission requirements are outlined on the program application form.

Courses and experiences prepare our students to work in preschools, childcare centers, or to teach in primary schools. Various techniques to establish positive learning environments are taught as students learn to plan, implement, and evaluate instructional programs, and to select, develop and implement methods and materials for the introduction of science, language arts, math and social sciences to children in an integrated curriculum which stresses critical thinking and problem solving.

These Education majors work toward licensure in early childhood. Validations and endorsements such as computer technology, bilingual/multicultural education, teaching English to Speakers of Other Languages and Reading can be added to licenses.

Requirements for Admission to Early Childhood Education

Successful completion of courses required for admission to Early Childhood Education must be taken from the following course list. Students must have an overall GPA of 2.5 and a 2.5 GPA in the following courses, with not less than a "C" in any of the courses listed. All courses with exception of those in teaching field or area of concentration are applicable to completion of the 42 credits of general education requirements.

		•	
	Written and Ora	al Communication - at least 10 credits	Credits
	3300:111	English Composition I*	4
	3300:112	English Composition II	3
	7600:105	Introduction to Public Speaking or	3
	7600:106	Introduction to Effective Oral Communications	3
• ;	Social Science -	- a minimum of 7 credits	
	3350:100	Introduction to Geography	3 .
	3400:250/251	U.S. History to 1877 Since 1877 OR	4
	3700:100	Government and Politics	4
•	Mathernatics -	minimum of 7 credits	
	3450:140	Math for Elementary Teachers I*	4
	3450:289	Special Topics: Math for Elementary Teachers II	3
•	Natural Science	- a minimum of 8 credits	
	3100:103	Biology or any 3100 course at a higher level than 3100:103	4
	30000000	Science(s) from any set except Biology (see Bulletin)	4
• (Child Developm	nent	
	7400:265	Child Development	3
•	Physical Educat	tion/Wellness	
	5540:xxx	Physical Education/Wellness	1

Professional Education:					
Core Courses:					
5100:210	Characteristics of Learners	3			
5100:211	Teaching and Learning Strategies: Early Childhood	3			
5100:410	Professional Issues in Education: Early Childhood	3			
5500:310	Instructional Design: Early Childhood	3			
5500:311	Instructional Resources	3			
5500:320	Diversity in Learners	3			
5500:330	Classroom Management	3			
Reading Cours	ses 12 hours				
5500:245	Understanding Literacy Development and Phonics	3			
5500:286	Teaching Multiple Texts through Genre	3			
5500:445	Evaluating Language Literacy	3			
5500:440	Developmental Reading in Content Areas	3			
Early Childhoo	d Specific Requirements — 30 hours				
5200:316	Kindergarten Curriculum and Instruction	4			
5200:360	Teaching in the Early Childhood Center	2			
5200:370	Early Childhood Center Lab	2			
5610:440	Developmental Characteristics of Exceptional Individuals	3			
5610:450	Special Education Programs in Early Childhood	3			
7400:265	Child Development	3			
7400:270	Theory and Guidance Play	3			
7400:280	Early Childhood Curriculum Methods	4			
7400:360	Parent-Child Relations	3			
7400:460	Organization and Supervision of Child Care Centers	3			
Methods of Te	eaching — 20 hours				
5200:320	Visual Arts Application in the Elementary Schools	3			
5200:333	Teaching Science to the Early Childhood Level	3			
5200:338	Teaching Social Studies to Young Children	3			
5200:342	Teaching Math to Young Children	3			
5200:365	Comprehensive Musicianship for Early Childhood	3			
5500:475	Instructional Technology Applications	3			
5550:336	Motor Learning and Development of Early Childhood	2			
Student Teach	ning — 13 hours				
5200:495	Student Teaching (8 weeks pre-K or K)	6			
5200:496	Student Teaching (8 weeks grades 1-3)	6			
5200:498	Student Teaching Colloquium	1			
linimum numh	er of hours required for graduation and licensure	145			

Computer/Technology: Early Childhood Level

Students who are preparing to teach at the early childhood level or who already hold an early childhood teaching license may add a computer/technology endorsement. For more information, contact Dr. Cindy Kovalik (kovalik@uakron.edu).

Reading Endorsement

N

Those wishing to add the reading endorsement to a licensure may contact Dr. Evangeline Newton (enewton@uakron.edu) for further information.

5250: Middle Level Education

http://www.uakron.edu/edcurr/licensure

Contact Dr. Susan Olson, Department Chair (solson@uakron.edu), for more information

Prior to admission students must complete 36 credit hours of coursework with a 2.50 GPA. These requirements provide Middle Childhood Education majors with the breadth of knowledge (science, written and oral communication, math and social studies) they will need to make decisions in the Middle Childhood setting. Students admitted to Middle Childhood Education must achieve a grade of "C" or higher in all 5200 courses to be eligible to student teach and graduate from the College of Education. Other admission requirements are outlined on the program application form.

Courses and experiences prepare students to work in elementary, middle and junior high schools. Various techniques to establish positive learning environments are taught as students learn and plan, implement and evaluate instructional programs, and select, develop and implement methods and materials for the introduction of science, language arts, math and social sciences to children in an integrated curriculum that stresses critical thinking and problem solving.

These Education majors work toward licensure in middle childhood. Validations and endorsements such as computer technology, bilingual/multicultural education, teaching English to Speakers of Other Languages and Reading can be added to licenses. All students in Middle Childhood Education are also required to have two 20-credit hour areas of concentration from outside the College of Education. Students may choose from sciences, social sciences, mathematics or reading, and language arts. For required course listings in each area of concentration for a Bachelor of Science Degree in Elementary Education, students should see their departmental advisor or call the Department of Curricular and Instructional Studies at 330-972-7765.

Requirements for Admission to Middle Childhood Education

Successful completion of courses required for admission to Middle Childhood Education must be taken from the following course list. Students must have an overall GPA of 2.5 and a 2.5 GPA in the following courses, with not less than a "C" in any of the courses listed. All courses with exception of those in teaching field or area of concentration are applicable to completion of the 42 credits of general education requirements.

 Written and C 	oral Communication – at least 10 credits	Credits		
3300:111	English Composition I*	4		
3300:112	English Composition II	3		
7600:105	Introduction to Public Speaking or	3		
7600:106	Introduction to Effective Oral Communications	3		
Social Science	e – a minimum of 7 credits			
3350:100	Introduction to Geography	3		
3400:250/251	U.S. History to 1877 Since 1877 or	4		
3700:100	Government and Politics	4		
 Mathematics 	- minimum of 7 credits			
3450:140	Math for Elementary Teachers I*	4		
3450:289	Special Topics: Math for Elementary Teachers II	3		
 Natural Science 	ce – a minimum of 8 credits			
3100:103	Biology or any 3100 course at a higher level than 3100:103	4		
3000:000	Science(s) from any set except Biology (see Bulletin)	4		
 Concentration 	1			
7400:265	Coursework from the Area of Concentration that is not already used above with a "C" or better.	3		
Physical Education/Wellness				
5540:xxx	Physical Education/Wellness	1		

Professional Education — 55 credits

5100:210	Characteristics of Learners: Middle Level	3
5100:211	Teaching and Learning Strategies	3
5100:410	Professional Issues in Education	3
5500:245	Understanding Literacy Development and Phonics	3
5500:286	Teaching Multiple Texts through Genre	- 3
5500:475	Instructional Technology Applications	3
5500:445	Evaluating Language Literacy and Field Experience	3
5200:495	Student Teaching (8 weeks, grades 4-6)	6
5200:496	Student Teaching (8 weeks, grades 7-9)	6
5250:300	Middle Level Education	3
5250:498	Student Teaching Colloquim	1
5500:310	Instructional Design	3
5500:311	Instructional Resources	3
5500:320	Diversity in Learners	3
5500:330	Classroom Management	3
5500:440	Developmental Reading in the Content Area	3
5610:440	Developmental Characteristics of Exceptional Individuals	3

 Areas of Concentration — Two areas of concentration are required to be selected from four areas: mathematics, reading/language arts, science, and/or social studies.Students must obtain at least a 2.50 average in each area of concentration course.

Mathematics — 21 hours

3 hours from General Education mathematics

3450:149	Pre-Calculus	4
3450:208	Introduction to Discrete Mathematics	4
3450:289	Selected Topics in Mathematics	. 3
3470:261	Introduction to Statistics I	2
3470:262	Introduction to Statistics II	2
5250:342	Teaching Math to Middle Level Learners	3

"Those receiving less than a "B" must take the PRAXIS I and pass for admission.

Reading/Language Arts --- 44 hours

- 10 hours from General Education English composition and oral communication
- 12 hours from reading listed above (5250:245, 286 and 445)

		Credits
3300:350	Black American Literature	3
3300:389	World Literature	3
5250:350	Integrating Language Arts and Media	3
5250:351	Modes of Writing for the Middle Grades	3
5500:442	Teaching Reading to Culturally Diverse Learners	3
5300:330	Teaching Adolescent/Middle Level Literature	3
5500:485	Teaching Reading & Language Arts to Second Language Learners	4

Science --- 26 hours

 8 hours from General Education natural science; 2 hours of electives selected from 3300:121-136, 138-139, 490, 495 or 499; 2 hours of science electives chosen so that the 8 hours of general education and electives include three areas of science: earth science (i.e., geology), life science (i.e., biology), and physical science (i.e., chemistry or physics). At least two of these courses must include a lab.

3100:295	Special Topics: Inquiry in the Life Sciences
3150/3650:150	Integrated Physical Sciences
3370:137	Earth's Atmosphere and Weather
3650:130	Descriptive Astronomy
5250:333	Teaching Science to Middle Level Learners

Social Studies - 34 hours

• 10 hours General Education from social science and area studies

5250:338	Teaching Social Studies to Middle Level	3
3250:100	Introduction to Economics	3
3350:100	Introduction to Geography	3
3400:250	U.S. History to 1877	4
3400:251	U.S. History since 1877	4
3400:470	Ohio History	3
3700:100	Government and Politics in the United States	4

Computer/Technology Endorsement: Middle Level

Students who are preparing to teach at the middle childhood level or who already hold a middle childhood teaching license may add a computer/technology endorsement. For more information, contact Dr. Cindy Kovalik (kovalik@uakron.edu).

5300: Secondary (Adolescent to Young Adult) Education

http://www.uakron.edu/edcurr/licensure

Contact Dr. Susan Olson, Department Chair (solson@uakron.edu), for more information

Prior to admission, students must complete 30 credit hours of coursework with a 2.50 GPA as outlined below. These requirements provide Adolescence to Young Adult Education and P-12 and Specialty Program majors with the breadth of knowledge they will need to make decisions in the secondary school setting. Other admission requirements are outlined on the program application form.

The program mandates an expert knowledge in a specific content area. This knowledge prepares and encourages teachers to be decision-makers by adapting and applying content knowledge to the needs and interests of a diverse student population. Upon graduation with a Bachelor of Arts or Science in Education, students are ready to teach in school settings appropriate to their licensure. For further licensure and graduation requirements, students should consult a departmental advisor or the Department of Curricular and Instructional Studies at 330-972-7765.

The Department offers teacher licensure in the following areas: Language Arts (7-12), Math (7-12), Science (7-12), Social Studies (7-12), Foreign Language (P-12), Visual Arts (P-12), Family and Consumer Science (4-12), Drama and Music.

Requirements for Admission to Adolescence to Young Adult or P-12 Specialty Programs

All applicants must successfully complete the following coursework prior to admission into an AYA program. All courses with exception of those in teaching field or area of concentration are applicable to completion of the 42 credits of general education requirements.

 Written and O 	ral Communication - at least 10 credits	Credits
3300:111	English Composition I*	4
3300:112	English Composition II	3
7600:105	Introduction to Public Speaking	3
	OF	
7600:106	Introduction to Effective Oral Communications	3
 Social Science 	e – a minimum of 3 credits	
 Mathematics - 3450/3470:xxx 	 minimum of 3 credits* Coursework with either of these numbers offered by the Mathem Department. 3450:100 does not count 	atics
 Natural Science 	e – a minimum of 5 credits	
Physical Education	ation/Wellness	
5540:xxx	Physical Education/Wellness	1
 Teaching Field 	l(s) – a minimum of 8 credits	
	Does not include coursework already used above. A 2.50 GPA in all such coursework is required. This includes credits beyond the minimum of 8.	8
 Professional 	courses (courses to be taken in an approved sequence):
5100:210	Characteristics of Learners	3
5100:211	Teaching and Learning Strategies	3
5100:410	Professional Issues in Education	3
5300:311	Instructional Techniques in Secondary Education@	5
5300:375	Exploratory Experience in Secondary Education@	1
5300:475	Instructional Technology Applications	3
5300:495	Student Teaching	8
5300:496	Student Teaching Colloquium	1
5500:310	Instructional Design	3
5500:311	Instructional Resources	3
5500:320	Diversity of Learners	3
5500:330	Classroom Management	3
5610:440	Developmental Characteristics of Exceptional Individuals	3

· Courses in teaching field(s) and electives as determined by the department.

Teaching Fields

> Each student preparing for secondary school teaching must complete at least one teaching field. P-12 indicates that licensure in that field is for preschool through grade 12. Other fields lead to licensure for grades 7-12 or as noted. Minimum number of credits is shown for each field.

Minimum Number of Credits Required for Approval in Various Teaching Fields

Comprehensive Subjects by Field

Integrated Language Arts with reading endorsement	63
integrated Language Arts	45
Integrated Mathematics	43
Integrated Science (six options)+:	
Biology (Life Science) and Earth Science	79-80
Biology (Life Science and Chemistry	84-85
Biology (Life Science) and Physics	83-84
Earth Science and Chemistry	79
Earth Science and Physics	70
Chemistry and Physics	79
Integrated Social Studies	62
P-12 Dance	
P-12 Drama Theatre	
P-12 Foreign Language	45
P-12 Music	54-56
P-12 Visual Arts	58
Integrated Business (grades 4-12)	68
Family and Consumer Science	
Endorsements in the following fields may be added to any of the above fields:	
Computer/technology	31-32

Computer/technology	31-32
Reading	18
TESOL (Teaching English to Speakers of Other Languages)	22

Computer/Technology: Secondary Level

Students who are preparing to teach at the secondary level or who already hold a secondary teaching license may add a computer/technology endorsement. For more information, contact Dr. Cindy Kovalik (kovalik@uakron.edu).

*Those receiving less than a "B" must take the PRAXIS I and pass for admission.

@ Variations will occur in K-12 certification fields. See Program Plan sheets for specific courses.

5400: Postsecondary Technical Education

http://www.uakron.edu/edcurr/licensure

Contact Dr. Susan Olson, Department Chair (solson@uakron.edu), for more information.

Prior to admission, students must complete 30 credit hours of coursework with a 2.50 GPA overall. These requirements provide Technical Education Program majors with the breadth of knowledge they will need to make decisions in their teaching or training career. Other admission requirements are outlined on the program application form.

Within the Department, the Technical Education program* prepares students to teach in postsecondary institutions or in education training programs in private industry or public agencies. Technical Education programs do not provide for State of Ohio licensure. Specific teaching content areas for a Bachelor of Science Degree in Technical Education include: business, health, engineering, natural sciences and public service technologies. Students interested in teaching a subject in a technical specialty or training technique should consult a technical education advisor or the Department of Curricular and Instructional Studies at 330-972-7765.

Requirements for Admission to Technical Education Program

All applicants must successfully complete the following coursework prior to admission into Secondary Education. All courses with exception of those in teaching field or area of concentration are applicable to completion of the 42 credits of general education requirements.

 Written and Oral Communication – at least 10 credits 		
3300:111	English Composition I*	4
3300:112	English Composition II	3
	(with grades "C" or better)	
7600:105	Introduction to Public Speaking or	3
7600:106	Introduction to Effective Oral Communications	3
 Social Science 	- a minimum of 3 credits	
 Mathematics – 3450/3470:xxx 	- minimum of 3 credits* Coursework with either of these numbers offered by the Mathemat Department. 3450:100 does not count	ics
Natural Science	e – a minimum of 5 credits	
Physical Education/Wellness 5540:xxx Physical Education/Wellness		

• Teaching Field(s) – a minimum of 8 credits

Does not include coursework already used above. A 2.50 GPA in all such coursework is required. This includes credits beyond the minimum of 8.

8

Requirements for Graduation

In addition to the general requirements of the College of Education, a student in technical education must obtain at least a 2.50 average in all major departmental professional education courses (5400), a 2.50 average in all technical courses directly related to the student's teaching field, and a 2.50 overall GPA. In addition, students must earn a "C" or better in each Technical Education course and a C- or better in each Technical Education course.

- Degree Requirements Bachelor of Science in Postsecondary Technical Education (minimum 128 crs.)
- General Studies 42 credits
- Technical Field (advisor approved hours) 51-60 credits
- Technical Education 25-35 credits
- Electives 00-10 credits
- Postsecondary Technical Education required courses: (Students must earn a C or better in all Postsecondary Technical Education courses.)

Phase I

3750:100	Introduction to Psychology	3
5400:400	Postsecondary Learner	3
5400:401	Learning with Technology	1
	(Required before any Technical Education courses are taken;	
	may be taken with first course.)	
5400:405	Workforce Education for Youth and Adults	3
	or	
5400:415	Training in Business and Industry	3
5100:420	Introduction to Instructional Computing	3

Phase II

(All Phase I courses must be completed with a 2.5 or better GPA before beginning Phase II courses. Phase II courses must be taken in order listed. 403 can be taken with 435 or 495.)

		Creans
5400:430	Systematic Curriculum Design for Postsecondary Instruction	3
5400:435	Systematic Instructional Design in Postsecondary Education	3
5400:475	Instructional Practice Seminar	3
5400:495	Postsecondary Education Practicum	3

5500:Curriculum and Instructional Studies

Contact Lynn Smolen, Ph.D. at 330-972-6961; Ismolen@uakron.edu.

Bilingual Multicultural Education

This program provides education majors with the knowledge, skills and attitudes necessary to teach bilingual students. The program incorporates course work in the history and philosophy of bilingual multicultural education, linguistics, English as a second language instruction, culture and theories and practices for teaching bilingual students language arts, reading, mathematics, social studies and science.

Students may become validated in bilingual multicultural education at either the undergraduate or graduate levels in conjunction with certification in elementary education, secondary education, special education or physical education. Students must demonstrate proficiency in English and a language other than English in order to meet the validation requirements of the Ohio State Department of Education.

Requirements:

3300:489	Seminar in English	3
5500:482	Characteristics of Culturally Diverse Populations	3
5500:484	Principles of Bilingual/Multicultural Education	3
5500:485	Teaching Reading and Language Arts to Second Language Learners or	4
5500:486	Teaching Mathematics, Social Studies and Science to Bilingual Students	4
5500:487	Techniques for Teaching English as a Second Language in the Bilingual Classroom	4
	Field experience of bilingual classrooms/settings	3

TESOL Validation (Teaching English to Speakers of Other Languages)

This program introduces students to the key issues in teaching English to nonnative speakers through coursework in linguistics, second language theory and methods, and in related disciplines.

Students seeking this validation must have studied a foreign language at sometime during their academic career.

Students who do not have English as a native language must demonstrate adequate proficiency in English with a valid TOEFL score of 580 or above and a score of 240 or above on the TSE (Test of Spoken English).

Required coursework:

3300:371	Introduction to Linguistics	3
3300:489	Seminar in English: Introduction to Bilingual Linguistics	3.
3300:473	Seminar in Teaching ESL: Theory and Method	3
3300:489	Seminar in English: Sociolinguistics	3
5500:481	Multicultural Education in the United States	3
3300:489	Seminar in English: Grammatical Structures of Modern English	3
5500:487	Techniques for Teaching English as a Second Language in the Bilingual Classroom	4
5500:485	Teaching Reading and Language Arts to Second Language Learners	4
5300:395	Field Experience	2

5550: Physical Education 5560: Outdoor Education 5570: Health Education

Undergraduate programs in the Department of Sports Science and Wellness Education lead to state licensure in health and physical education (Pre- K-12). There is also a school nurse licensure program, as well as one in dance. State validation is also available in adapted physical education. A program is offered in Athletic Training for Sports Medicine and can lead to certification with the NATABOC. Highly selective and competitive admission exists for the Athletic Training Program. The Sport and Exercise Science Program is also available for those students considering exercise science and other allied areas. In addition to public school employment, graduates may be prepared for employment in various recreation professions, business and industry fitness centers, and numerous allied health and exercise professions.

٠	General Education Courses	for	all	Department	of	Physical	and	Health	Edu-
	cation majors (43-45 credits)							Cred	its

	3100:200, 201	Human Anatomy and Physiology I, Lab	4	
	3100:202, 203	Human Anatomy and Physiology II, Lab	4	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Natural Science*#	1	
		(See General Education requirements under University College.		
		Select from any set except Biology.)		
	3300:111	English Composition i*	4	
	3300:112	English Composition II*	3	
	3400:210	Humanities in the Western Tradition I	4	
	XXXX:XXXX	Humanities Coursework	6	
		(See General Education requirements under University College)		
	XXXX:XXXX	Area Studies/Cultural Diversity	4	
		(See General Education requirements under University College)		
	3750:100	Introduction to Psychology*	3	
	3850:100	Introduction to Sociology*	4	
	5540:xxx	Physical Education (Health Education/Athletic Training/	1	
		Dance Education only)*		
	5550:193	Orientation to Teaching Physical Education	3	
		(Physical Education majors only)		
	7600:105	Introduction to Public Speaking*	3	
		or		
	7600:106	Effective Oral Communication*	3	
•	Mathematics	(choose one option)*		
	Option 1			
	3450:113	Combinatorics and Probability	1	
	3450:114	Matrices	1	
	3450:138	Mathematics of Finance	1	
	Oction 2			
	2470-260	Basic Statistics	2	
	04/0.200		3	
	Option 3	Matheway of Francis		
	3450:138	Mathematics of Finance	1	
	3470:261	Introductory Statistics I	2	
	Option 4	• · · · ·		
	3450:145	College Algebra	4	
•	Professional E	Education Courses for all Department of Physical Educ	ation an	d
	Health Educat	ion majors" (33 credits)		
	5100:210	Characteristics of Learners ¹ and	3	
	5100:211	Teaching and Learning Strategies ¹	3	
	5100:410	Professional Issues in Education	3	
	5500:310	Instructional Design ²	3	
		and 2		
	5500:311	Instructional Hesources*	3	
	5500:320	Diversity in Learners	3	
	5500:330	Classroom Management	3	
	The following sho Professional Educ	uld be taken at the same time but only after completion of all General ation, and Department requirements are completed.	Studies,	
	5550:494	Student Teaching Colloquium for Physical and Health Education	2	
	5550:495	Student Teaching for Physical and Health Education	10	

Reminder: All students pursuing teacher education programs at The University of Akron are subject to the selective admission and retention requirements. Criteria and procedures are available in the Office of the Student Affairs, College of Education, Zook Hall 210, The University of Akron, Akron, OH 44325, 330-972-5188.

Pre-K-12 Physical Education

- · General Education and Professional Education Courses listed above
- · Courses should be taken from the following areas in the recommended sequence (see adviser):

Area 1

5550:102	Physical Education Activities I: Fitness and Contemporary Activities	2
5550:308	Physical Education Activities VI: Dance and Tumbling	2

Required for admission to College of Education.

- # These courses are not required of Athletic Training for Sports Medicine (NATA/non-NATA)
- 1 Take these courses together
- 2 Take these courses together

Area 2 Choose	st least four credits from the following:	Credits
5550:204	Physical Education Activities II: Soccer and Swimming	2
5550:205	Physical Education Activities III: Basketball and Track/Field	2
5550:306	Physical Education Activities IV: Badminton and Golf	2
5550:307	Physical Education Activities V: Tennis and Volleyball	2
Area 3 (all 5550): and 5560 courses in this Area required for admission to	College of
ducation)		
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
5550:130	Physical Education Activities for Children	2
5550:193	Orientation to Teaching Physical Education*	3
5550:195	Concepts of Games and Play	2
5550:201	Kinesiology	3
5550:202	Diagnosis of Motor Skills	2
5550:203	Measurement and Evaluation in Physical Education	3
5550:211	First Aid and CPR	2
5550:235	Concepts of Motor Development and Learning	3
5550:245	Adapted Physical Education	3
5550:302	Physiology of Exercise	3
5550:335	Movement Experiences for Children	3
5550:345	Instructional Techniques for Children in Physical Education	3
5550:346	Instructional Techniques: Secondary Physical Education	3
5550:450	Organization and Administration of Physical Education,	
	Intramurals, and Athletics	3
5550:452	Foundations of Physical Education	3
5560:454	Resident Outdoor Education	2
Additional 5550	courses are offered but not required for licensure	

1

1

Concentration/Certificate Options for Exercise & Sport Science and Pedagogy

Select a concentration from the areas listed below (must be a minimum of 20 credits to have an official concentration, including practicum experience):

I. Physiological	Sciences**	
3100:265	Introduction to Human Physiology	4
3100:392	Biology of Aging	3
3100:465	Advanced Cardiovascular Physiology	3
3100:469	Respiratory Physiology	3
5550:460	Practicum in P.E.	Z
	Course Total	20
II. Sport Manag	ement**	
5550:200	Introduction to Sport Exercise Studies	3
5550:420/520	Sports Management	3
5550:422/522	Sport Marketing	3
5550:450	Organization and Administration	3
5550:459	Practicum Seminar	1
5550:460	Practicum in P.E.	4-10
5550:462	Legal Aspects of Physical Activity	3
	Course Total	20
IN. Pre-Physical	Therapy Option	
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry Lab	1
3650:261	Physics for Life Sciences !	4
3650:262	Physics for Life Sciences II	4
5550:460	Practicum in P.E.	4
	Course Total	20
IV. Sport Coacl	ning/Strength Conditioning**	
5550:350	Principles of Coaching	3
5550:352	Strength and Conditioning Fundamentals	3
5550:409	Human Dynamics of Coaching	3
5550:462	Legal Aspects of Physical Activities	3
5550:460	Practicum in P.E.	9
	Course Total	21
V. Outdoor Lea	dership**	
5560:440	Introduction to Outdoor Pursuits+	3
5560:458	Organization and Administration of Outdoor Pursuits+	3
5560:462	Adventure Therapy+	3
5560:464	Wildemess Education Association Outdoor Leadership#	3
5540:206	Orienteering#	1
5540:207	Introduction to Rock Climbing#	1
5540:208	Backpacking#	1
5540:209	Flatwater Canoe Tripping#	1
5550:460	Practicum in P.E.	4-11
	Course Total	13-24

5550:460 Practicum in Physical Education (4-11) is required for all concentration areas

- These courses are required for the Outdoor Leadership concentration These courses constitute electives for teh Outdoor Leadership concentration

^{**} Substitutions for courses in concentrated areas may be made with academic advisor approval.

5570: Community Health and Wellness Education

Pre-K-12 Health Education

- See 5550 Physical Education for General Studies and Professional Education requirements
- · Courses should be taken in the recommended sequence (see adviser):

		Credits
2260:240	Pharmacology of Psychoactive Drugs	3
3100:130	Principles of Microbiology	3
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3850:100	Introduction to Sociology	4
5300:325	Content Reading in Secondary Schools	3
5550:211	First Aid and CPR	2
5550:302	Physiology of Exercise	3
5570:101	Personal Health	2
5570:201	Foundations in Health Education	3
5570:202	Stress, Life Style, and Your Health	3
5570:322	Current Topics in Health Education	3
5570:350	Measurement and Evaluation in Health Education	3
5570:395	Field Experience in Health Education	1-3
5570:400	Environmental Health	3
5570:420	Community Health	2
5570:421	Comprehensive School Health	4
5570:423	Methods and Materials of Health Education	3
5570:460	Practicum in Health Education	2
5570:497	Independent Study	1-2
7400:133	Nutrition Fundamentals	3
	Elective(s) (see adviser)	3
Additional 5570	courses are offered but not required for licensure	

Students seeking a degree in Health Education may opt to take additional course work which would lead to an area of concentration in one of the following groups:

Community Health

A bachelor of science degree in Community Health prepares students to become professional health educators in government health-related departments, both at the community and the national level, social agencies, work sites, colleges and medical/clinical organizations. It is a growing field offering opportunities to learn how to develop programs that reinforce healthful lifestyles for people at both the individual and social level. Graduates of the program are eligible to take teh National Certified Health Education Exam (CHES).

Сотп	sunity H	ath Educators will take all of the following Professional Education Courses

(15 credit hour	8)	
5050:210	Characteristics of Learners	3
	and	
5050:211	Teaching and Learning Strategies	3
5050:310	Instructional Design	3
	and	
5050:311	Instructional Resources	3
5050:320	Diversity in Learners	3
Core Courses (Community Health & Wellness Program (30 credits)	
2260:240	Chemical Dependency	3
3100:130	Principles of Microbiology	3
3100:200/201	Anatomy & Physiology I*	4
3100:202/203	Anatomy & Physiology II*	4
3850:100	Intro to Sociology*	4
5550:211	First Aid and CPR	2
5570:101	Personal Health	2
5570:201	Foundations in Health Education	3
5570:202	Stress, Lifestyle and Health	3
5570:320	Principles of Community Health	2
5570:323	Methods and Materials Teaching Health Education	3
5570:350	Measurement & Evaluation in Health Education	3
5570:400	Environmental Health	3
7400:133	Nutrition Fundamentals	3_
	Total	30
*aiready counte	d for general studies credits	
Required (29 c	redits) for Community Health Education Concentration	
2260:150	Introduction to Gerontological Services	3
2260:278	Techniques of Community Work	4
2740:120	Medical Terminology	3
2820:105	Basic Chemistry*	3
3470 260	Statistics*	3

Credits 5100:420/520 Computer Concepts 3 5550:150 Concepts in Health & Fitness 3 5570:395 Field Experience in Health Education 2 5570:460 Practicum in Health Education 8 7400:442/542 Human Sexuality 3 already included in the General Studies section Electives (10 credits)

6600:300	Marketing Principles	3
5550:302	Physiology of Exercise	3
5570:322	Current Topics	3
6600:350	Advertising	3
5570:421	Comprehensive School Health	4

Concentration/Certificate Options for Exercise and Sport Science and Pedagogy

Select a concentration from the areas listed below (must be a minimum of 20 credits to have an official concentration, including practicum experience):

I. Physiological S	Sciences**	
3100:265	Introduction to Human Physiology	4
3100:392	Biology of Aging	3
3100:465	Advanced Cardiovascular Physiology	3
3100:469	Respiratory Physiology	3
5550:460	Practicum in P.E.	Z
	Course Total	20
II. Sport Manage	ment**	
5550:200	Introduction to Sport Exercise Studies	3
5550:420/520	Sports Management	3
5550:422/522	Sport Marketing	3
5550:450	Organization and Administration	3
5550:459	Practicum Seminar	1
5550:460	Practicum in P.E.	4-10
5550:462	Legal Aspects of Physical Activity	3
	Course Total	20
III. Pre-Physical 1	Therapy Option	
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry Lab	1
3650:261	Physics for Life Sciences I	4
3650:262	Physics for Life Sciences II	4
5550:460	Practicum in P.E.	4
	Course Total	20
IV. Sport Coachi	ing/Strength Conditioning**	
5550:350	Principles of Coaching	3
5550:352	Strength and Conditioning Fundamentals	3
5550:40 9	Human Dynamics of Coaching	3
5550:462	Legal Aspects of Physical Activities	3
5550:460	Practicum in P.E.	9
	Course Total	21
V. Outdoor Lead	lership**	
5560:440	Introduction to Outdoor Pursuits+	3
5560:458	Organization and Administration of Outdoor Pursuits+	3
5560:462	Adventure Therapy+	3
5560:464	Wilderness Education Association Outdoor Leadership#	3
5540:206	Orienteering#	1
5540:207	Introduction to Rock Climbing#	1
5540:208	Backpacking#	1
5540:209	Flatwater Canoe Tripping#	1
5550:460	Practicum in P.E.	4-11
	Course Total	13-24

5550:460 Practicum in Physical Education (4-11) is required for all concentration areas.

Reminder: All students pursuing teacher education programs at The University of Akron are subject to the selective admission and retention requirements. Criteria and procedures are available in the Office of the Dean, College of Education, Zook Hall 210, The University of Akron, Akron, OH 44325, 330-972-5188.

School Nurse Program*

The provisional school nurse's license will be issued to the holder of a bachelor's degree from an approved college or university, provided the pattern of preparation leading to the degree conforms to the following requirements:

- + These course are required for the Outdoor Leadership concentration.
- # These course constitute electives for the Outdoor Leadership concentration.

 Three options exist in this program. Option 1 is undergraduate and Options 2 and 3 are graduate level

** Substitutions for courses in concentrated areas may be made with academic advisor approval.

^{**} Substitutions for courses in concentrated areas may be made with academic advisor approval.

Education License Requirements@

Option 1

A. R.N. License

B. Baccalaureate degree in non-nursing field (with BSN — see Option 2)

C. Acceptance into the College of Education

D. Selected course work from the College of Education (11-15 credits) and College of Nursing

E. Course work distributed over the following areas:

- 1. Community Health
- 2. Mental and Emotional Health
- 3. Current Topics in Health Education
- 4. Methods of Teaching/Instructional Design
- 5. Learner and Learning Process
- 6. Evaluation and Measurement of Learning
- 7. Principles, Comprehensive School Health
- 8. Health Assessment
- 9. Nursing Research

F. Supervised School Nurse Experience

To satisfy the above requirements, an applicant must complete the following twenty-five (25) credit hours of courses or their equivalents for Option 1:

		Creans
5570:420	Community Health	2
5570:421	Comprehensive School Health	4
5570:423	Methods and Materials of Teaching Health Education	3
8200:225	Health Assessment	3
8200:436	Nursing Research	3
8200:453/553	School Nurse Practicum (May be waived based upon experience and submission o	5 f a portfolio)
8200:454/554	School Nurse Practicum II	5
	(Required of all school nursing students)	
At least three (3) credits from the following:	
5570:202	Stress, Lifestyle and Your Health	3
5570:322	Current Topics in Health Education	3

5570.202	Suess, Liestyle and Tour health	3
5570:322	Current Topics in Health Education	3
5570:400	Environmental Health	3
5570:490	Workshop (per department)	1-3
	Total	23-28

Options 2 and 3

See Graduate Bulletin.

Licensure in Dance (Pre-K-12)

- See 5550: Physical Education for General Education requirement and Professional Education courses listed previously
- Courses should be taken in the recommended sequence (see adviser);

5300:325	Content Reading in Secondary Schools	3
7500:100	Fundamentals of Music	2
7900:115	Dance as an Art Form	2
7910:101-111	Dance Organization	1
7910:101-111	Dance Organization	1
7910:101-111	Dance Organization	1
	(Enrollment in Dance Organization by audition only)	
7910:108	Choreographers' Workshop	1
7910:112	Dance Production Ensemble	1
7920:116	Physical Analysis for Dance I	2
7920:117	Physical Analysis for Dance II	2
7920:222	Ballet VI (Enrollment by audition only)	5
7920:316	Choreography I	2
7920:317	Choreography II	2
7920:320	Movement Fundamentals	2
7920:328	Modem Dance VII	
7920:351	Jazz Dance III	
7920:361	Learning Theory for Dance	2
7920:362	Instructional Strategies for Dance	2
7920:416	Choreography III	2
7920:417	Choreography IV	2
Choose one Histo	ry:	
7920:431	Dance History: Prehistory - 1661	2
7920:432	Dance History: 1661 Through Diaghilev Era or	2
7920:433	Dance History: 20th Century	2
7920:461	Seminar and Field Experience in Dance Education	2
7920:462	Professional Issues in Dance Education	2
	Electives (see adviser)	4

Adapted Physical Education (Validation)

A validation of an existing Ohio Standard Physical Education certificate may be granted upon successful completion of the following courses:

		Credits
5550:395	Field Experience (at least two credits required)	1-3
5550:436	Foundations and Elements of Adapted Physical Education	3
5550:451	Assessment and Evaluation in Adapted Physical Education	3
5550:455	Motor Development of Special Populations	3
5550:497	Independent Study (at least two credits required)	1-2
5610:440	Developmental Characteristics of Exceptional Individuals	3
5610:454	Special Education Program: Moderate/Intense II	4
5610:467	Management Strategies in Special Education	3

Athletic Training for Sports Medicine

Program Director

Stacey Buser, Clinical Instructor

Athletic Training Program Objectives

The athletic training program at The University of Akron is a comprehensive major that will prepare students for a career in athletic training and sports medicine. The curriculum includes didactic and clinical coursework. The course content reflects the competencies and clinical proficiencies required to successfully sit for the National Athletic Trainers' Association Board of Certification examination and state licensure examination. The University of Akron is in the Candidacy stage of pursuing national accreditation from the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Admission and Exit Requirements

Entrance into the Athletic Training Program is by selective admission. Students are permitted to apply for admission into the program at the end of their freshman year or during their sophomore year. Students may apply in either the fall or spring semesters. Students must meet the following criteria:

Students must maintain a B or better grade in the core athletic training courses.

Admission Requirements

1. Each student must submit a completed application, which will include a brief essay on why they have selected athletic training as their intended profession, as well as, possible career choices. 2. Students must have two letters of recommendation which describe academic ability, character, and work ethic. One of these will be a professor/instructor at The University of Akron. 3. The student must maintain a cumulative grade point average of 2.5.

4. The Athletic Training Selection Committee will interview the student.

Graduation Requirements

To Graduate with the Athletic Training major, the student must:

Obtain full admittance into the College of Education.

- 1. Successfully complete all University requirements.
- 2. Successfully complete all required Athletic Training courses.
- 3. Pass all designated athletic training courses with a C or better.
- 4. Have a minimum over-all GPA of 2.5. A 2.5 is also required in the major field of study. 5. Have completed the 1,500 clinical internship hours requirement.
- 6. Have completed an Athletic Training portfolio.
- 7. Complete exit interview with Program Director and Approved Clinical Instructor (ACI).
- 8. Complete exit evaluations form of the Athletic Training Program and return it to the Program Director.

Clinical Experience

Program standards require students to complete 1,500 hours of clinical work under the direct supervision of an approved clinical instructor (ACI) in an approved setting. These clinical hours are required to sit for the National Athletic Trainers' Association Certification examination and the state licensure examination. 1,000 of the 1,500 hours must be completed under the direct supervision of the Certified Athletic Training staff at The University of Akron. 25% of the 1,500 hours must be in a high-risk sport setting as defined by the National Athletic Trainers' Association. The field experience may be completed in a variety of approved clinical settings, including but not limited to sports medicine clinics, high school settings, sports medicine physician's offices, and professional sports teams.

PROGRAM STUDIES, ATHLETIC TRAINING FOR SPORTS MEDICINE COURSES (NATA)

Related Required Coursework

2440:101	Fundamental Computer Concepts	1
2740:120	Medical Terminology	3
3100:200	Human Anatomy and Physiology I	3
3100:201	Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Lab	1
3150:110	Introduction General, Organic and Biochemistry I	3

Ø A total of 12 credit hours (minimum) must be taken within the College Education which includes 5570:420, 5570:423 and 5570:421

3150:111	Lab	1
3150:112	Introduction General, Organic and Biochemistry II	3
3150:113	Lab	1
3750:100	Introduction to Psychology	3
3820:100	Introduction to Sociology	4
5550:150	Concepts of Health and Fitness	3
5550:201	Kinesiology	3
5550:302	Physiology of Exercise*	3
5570:101	Personal Health	2
7400:487	Sports Nutrition	3
7400:133	Nutrition Fundamentals	3
Major Required C	oursework	
5550:212	First Aid/CPR: Health Care Professionals*	2
5550:240	Care and Prevention of Athletic Injuries*	4
5550:xxx	Care and Prevention of Athletic Injuries Lab	1
5550:xxx	General Medical Aspects	3
5550:395	Field Experience*	3
5550:441	Advanced Athletic Injury Management: Upper Extremity*	4
5550:475	Advanced Athletic Injury Management: Lower Extremity*	3
5550:445	Therapeutic Exercise and Rehabilitation*	4
5550:449	Organization and Administration for Health Care Professionals	3
5550:460	Practicum in Sports Medicine	3
5550:480	Musculoskeletal Anatomy I	3
5550:480	Musculoskeletal Anatomy II	3
5550:497	Independent Study	2
5550000	Clinical Experience I	2
55500ox	Clinical Experience II	2

Credits

*Course requires clinical hours.

Select at least five (5) credits from the following electives. Advisor must first approve the elective courses.

3100:111	Biology I	3
3100:465	Advanced Cardiovascular Physiology	3
3650:261	Physics for Life Sciences	4
3650:262	Physics for Life Sciences	4
5550:xxx	Sports Medicine Workshops	1-3
5550:202	Diagnosis of Motor Skills	3
5550:300	Physiology of Exercise of Older Adult	3
5550:352	Strength & Conditioning Fundamentals	3
5550:403	Exercise Testing	3
5550:404	Exercise Prescription	3
5550:462	Legal/Ethical Issues	3
5550:480/680	Cardiac Rehabilitation Principles	3

Candidates interested in physical therapy school should:

 Investigate academic entrance requirements at schools in which they might be interested and then tailor their program here to meet their needs.

Know that most schools require some field/clinical hours prior to admission. Students in this program will be responsible to accumulate these hours on their own and under the guidance of certified therapists.

Sport and Exercise Science

· The following are required in the recommended sequence (see adviser):

2740:120	Medical Terminology	3	
3100:200, 201	Human Anatomy and Physiology I, Lab	4	
3100:202, 203	Human Anatomy and Physiology II, Lab	4	
3150:110, 111	Introduction to General, Organic and Biochemistry I, Lab	4	
3750:100	Introduction to Psychology	3	
3750:230	Developmental Psychology	4	
3850:100	Introduction to Sociology	4	
5550:150	Concepts of Health and Fitness	3	
5550:201	Kinesiology	3	
5550:202	Diagnosis of Motor Skills	3	
5550:203	Measurement & Evaluation in Physical Education	3	
5550:211	First Aid and CPR	2	
5550:235	Concepts of Motor Learning and Development	3	
5550:240	Care and Prevention of Athletic Injuries	4	
5550:245	Adapted Physical Education	3	
5550:300	Physiology of Exercise for Adult and Elderly	3	
5550:302	Physiology of Exercise	3	
5550:395	Field Experience	3	
5550:400/500	Musculoskeletal Anatomy I – Upper Extremity	3	
5550:401/501	Musculoskeletal Anatomy II - Lower Extremity	3	
5550:403	Exercise Testing	3	
5550:404	Exercise Prescription	3	
5550:450	Organization and Administration of Physical Education,		
	Intramurals, and Athletics	3	

		Creats
5550:480	Special Topics	3
5570:101	Personal Health	2
5570:202	Stress, Life-Style, and Your Health	3
5570:320	Community Health	3
7400:133	Nutrition Fundamentals	3
7400:487	Sports Nutrition	3

A student in Sport and Exercise Science needs to select an area of concentration from one of the following groups:

Concentration/Certificate Options for Exercise & Sport Science and Pedagogy

Select a concentration from the areas listed below (must be a minimum of 20 credits to have an official concentration, including practicum experience):

I. PTIYSIOIOGICEI	Sciences**	
3100:265	Introduction to Human Physiology	4
3100:392	Biology of Aging	3
3100:465	Advanced Cardiovascular Physiology	3
3100:469	Respiratory Physiology	3
5550:460	Practicum in P.E.	Z
	Course Total	20
II. Sport Manag	jement**	
5550:100	Introduction to Sport/Exercise Studies	3
5550:420	Sport Management	3
5550:422/522	Sport Planning/Promotion	3
5550:450	Organization and Administration in PE	3
5550:459	Practicum Seminar	1
5550:460	Practicum in PE	4
5550:462	Legal/Ethical Issues in Physical and Leisure Activities	3
	Course Total	20
III. Pre-Physical	Therapy Option	
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry Lab	. 1
3650:261	Physics for Life Sciences I	4
3650:262	Physics for Life Sciences II	4
5550:460	Practicum in P.E.	4
	Course Total	20
IV. Sport Coac	hing/Strength Conditioning**	
5550:350	Principles of Coaching	3
5550:352	Strength and Conditioning Fundamentals	3
5550:409	Human Dynamics of Coaching	3
5550:462	Legal Aspects of Physical Activities	3
5550:460	Practicum in P.E.	9
	Course Total	21
V. Outdoor Lee	idership**	
5560:440	Introduction to Outdoor Pursuits+	3
5560:458	Organization and Administration of Outdoor Pursuits+	3
5560:462	Adventure Therapy+	3
5560:464	Wilderness Education Association Outdoor Leadership#	3
5540:206	Orienteering#	1
5540:207	Introduction to Rock Climbing#	1
5540:208	Backpacking#	1
5540:209	Flatwater Canoe Tripping#	1
5550:460	Practicum in P.E.	4-11
	Course Total	13-24

5550:460 Practicum in Physical Education (4-11) is required for all concentration areas.

5610: Special Education

Intervention Specialist for Mild/Moderate Educational Needs

Prior to admission into the Department of Counseling and Special Education, you must complete the required General Education courses listed. These General Education requirements provide Intervention Specialist Education majors with the breadth of knowledge they will need to make decisions while teaching children with exceptionalities. Other admission requirements are outlined on the program application form.

To meet the needs of children with exceptionalities, the College of Education offers three licensure options as follows: Interventional Specialist Early Childhood (P-3), Intervention Specialist Mild to Moderate (K-12), and Interventional Specialist Moderate to Intensive (K-12). These programs prepare education students to work

* Required for admission to the College of Education. Total of 29 credits.

^{**} Substitutions for courses in concentrated areas may be made with academic advisor approval.

⁺ These course are required for the Outdoor Leadership concentration.

[#] These course constitute electives for the Outdoor Leedership concentration.

effectively with pupils who experience physical, learning, and/or emotional differences. Graduates of these programs are trained to put theory into practice by instructing special classes, instructing integrated units, conducting tutoring services, and providing supports for general classroom teachers. In addition, for those who can complete all licensure requirements on or before September 2002, the Department offers an Early Education of the Handicapped validation to qualified students. Any student who does complete all validation and licensure requirements by September 2002 will not be eligible to receive it. Those interested in this validation should contact their advisor as soon as possible. For specific program and licensure requirements, students should see their advisor or contact the Department of Curricular and Instructional Studies office at 330-972-7765.

Requirements for Admission to Special Education

The following is a list of General Education courses that must be taken by every applicant.

•	General Educa	ation — 45 credits	
	English Composit	ion Component:	Credits
	3300:111	English Composition I**	4
	3300:112	English Composition II*	3
	Mathematics Cor	nponent:	
	3450:145	College Algebra**	4
			-
	Natural Science C	Component:	
	3150:110	General, Organic & Biochemistry I*	4
	3100:265	Introduction to Human Physiology*	4
	Oral Communicat	ion Requirement:	
	7600:105	Introduction to Public Speaking *	
		or	
	7600:106	Effective Oral Communication*	3
	Physical Educatio	n Component:	
	5550:211	First Aid & CPB	2
			-
	Social Science Co	mponent:	
	3850:100	Introduction to Sociology*	4
	3750:100	Introduction to Psychology*	3
	Humanities Comp	xonent:	
	3400:210	Humanities in Western Tradition	4
	7100:210	Visual Arts Awareness	
		or	
	7500:201	Exploring Music: Bach to Rock	3
	Plus one other H	umanities course	
		see General Education options	3
			•
	Area Studies/Cult	ural Diversity Component:	
	_	see General Education options	4
•	Teacher Educa	ation Core 21 credits	
	5100:210	Characteristics of Learners	3
	5100:211	Teaching & Learning Strategies	3
	5100:410	Professional Issues in Education	3
	5500:310	Instructional Design	3
	5500:311	Instructional Resources	3
	5500:320	Diversity in Learners	3
	5500:330	Classroom Management	3
•	Special Educa	tion Core — 43 credits	
	5500:245	Inderstanding Literacy Development and Phonics	2
	5200:342	Teaching Math to Young Children	3
	5500:445	Evaluating Language Literacy and Field Experience	3
	5500:440	Developmental Reading in the Content Area-Elementary	3
	5610:403	Student Teaching Colloquium	1
	5610:440	Developmental Characteristics of Exceptional Individuals	3
	5610:450	Special Education Programming: Early Childhood	3
	5610:452	Special Education Programming: Secondary/Transition	3
	5610:459	Collaboration & Consultation in Schools and Community	3
	5610:460	Family Dynamics & Communications	3
	5610:463	Assessment in Special Education	3
	5610:467	Management Strategies in SpEd	3
	5610:470	Clinical Practicum in Special Education	3
	7400:265	Child Development	3
	7700:430	Aspects of Normal Language Development	3
•	Specialization	— 19 credits	
	5610:447	Developmental Characteristics of Individuals with Mild/Moderate	4
		Educational Needs	-
	5610:451	Special Education Programming: Mild/Moderate I	3
	5610:457	Special Education Programming: Mild/Moderate II	4
	5610:486	Student Teaching: Mild/Moderate	8

Intervention Specialist for Moderate/Intensive **Educational Needs**

This program is designed to meet the standards for the State of Ohio teaching license for Intervention Specialist for Moderate/Intensive Educational Needs. Students completing this program will be prepared to work as an Intervention Specialist with students who have moderate/intensive educational needs. The program consists of 45 hours of General Education requirements, 21 hours of Teaching Education core requirements, 43 hours of Special Education core requirements and 23 hours of Intervention Specialist for Mild/Moderate Educational Needs program requirements. The total program requires 132 hours; there are no elective hours in the program.

•	General E	Education — 45 credits:	Credits
	English Cor 3300:111,1 3300:112	nposition component: 12 English Composition I** English Composition II	4 3
	Mathemati 3450:145	cs component: College Algebra**	4
	Natural Scie 3150:110 3100:265	ence Component: General, Organic & Biochemistry I * Introduction to Human Physiology*	4
	Oral Comm 7600:105	unication Requirement: Introduction to Public Speaking*	3
	7600:106	or Effective Oral Communication	3
	Physical Ed	lucation Component:	
	5550:211	First Aid & CPR	2
	Social Scier 3850:100 3750:100	nce Component: Introduction to Sociology * Introduction to Psychology *	4 3
	Humanities	Component:	
	7100:210	Visual Arts Awareness	4
	7500:201	or Exploring Music: Bach to Rock	3
		Plus one other Humanities course See General Education under University College for options	3
	Area Studie	s/Cultural Diversity component: See General Education under University College for options	4
•	Teacher	Education Core — 21 credits:	-
	5100:210	Characteristics of Learners	3
	5100:211	Teaching and Learning Strategies	3
	5100:410	Professional Issues in Education	3
	5500:310	Instructional Design	3
	5500:311	Diversity in Learners	3
	5500:330	Classroom Management	3
•	Special E	ducation — 43 credits:	
	5500:245	Understanding Literacy Development and Phonics	3
	5200:342	Feaching Math to Young Children	3
	5500:440	Developmental Beading in the Content Area-Elementary	3
	5610:403	Student Teaching Colloquium	1
	5610:440	Developmental Characteristics of Exceptional Individuals	3
	5610:450	Special Education Programming: Early Childhood	3
	5610:452	Special Education Programming: Secondary/Transition	3
	5610:459	Collaboration & Consultation in Schools and Community	3
	5610:400	Assessment in Special Education	3
	5610:467	Management Strategies in Special Education	3
	5610:470	Clinical Practicum in Special Education	3
	7400:265	Child Development	3
	7700:430	Aspects of Normal Language Development	3
•	Specializa	ation — 23 credits:	
	7700:101	Introduction to American Sign Language	3
	5610:453	Special Education Programming: Moderate/Intensive I	4
	5610:454	Special Education Programming: Moderate/Intensive II	4
	5010:448	Educational Needs	4
	5610:487	Student Teaching: Moderate/Intensive Educational Needs	4
			0

Required for admission to the College of Education. Total of 29 credits. Those receiving less than a "B" must take the PRAXIS I and pass for admission

Required for admission to the College of Education. Total of 29 credits.

** Those receiving less than a "B" must take the PRAXIS I and pass for admission

Early Childhood Intervention Specialist

This program is designed to meet the standards for the State of Ohio teaching license for Early Childhood Intervention Specialist. Students completing this program will be prepared to work as an Early Childhood Intervention Specialist with learners with mild/moderate/intensive education needs from ages three through eight and prekindergarten through grade three, and for providing service coordination. The program consists of 45 hours of General Education requirements, 21 hours of Teacher Education core requirements, 40 hours of Special Education core requirements and 22 hours of Early Childhood Intervention Specialist program requirements. The total program requires 128 hours; there are no elective hours in the program.

•	General	Education -	— 45 credits:
---	---------	-------------	---------------

	English Cor 3300:111	nposition component: English Composition I**	4
	3300:112	English Composition !!	
	Mathematic 3450:145	cs component: College Algebra**	4
	Natural Scie	ance Component:	
	3150:110	General, Organic & Biochemistry I *	4
	3100:265	Introduction to Human Physiology*	4
	Oral Comm	unication Requirement:	
	7600:105	Introduction to Public Speaking*	3
	7600-106	Of Effective Oral Communication	3
	2000.100		0
	5550:211	ucation Component: First Aid & CPR	2
	Social Scier	nce Component:	
	3850:100	Introduction to Sociology *	4
	3750:100	Introduction to Psychology *	3
	Humanities	Component:	
	3400:210	Humanities in Western Tradition	4.
	7100:210	Visual Arts Awareness	3
	7500:201	Exploring Music: Bach to Bock	3
		Plus one other Humanities course	
		See General Education under University College for options	3
	Area Studie	s/Cultural Diversity component: See General Education under University College for options	4
,	Teacher I	Education Core - 21 credits:	
	5100:210	Characteristics of Learners	3
	5100:211	Teaching and Learning Strategies	3
	5100:410	Professional Issues in Education	3
	5500:310	Instructional Design	3
	5500:311 5500:320	Instructional Resources	3
	5500:320	Classroom Management	3
,	Special E	ducation 40 credits:	
	5200:245	Understanding Literacy Development and Phonics	3
	5200:342	Teaching EC/Middle Level Mathematics	3
	5200:425	Evaluating Language Literacy and Field Experience	1
	5200:445	Evaluating Language Literacy	2
	5610:440 5610:450	Developmental Characteristics of Exceptional Individuals Special Education Programming: Early Childhood	3
	5610:459	Collaboration & Consultation in Schools and Community	3
	5610:460	Family Dynamics & Communication	3
	5610:4 6 4	Assessment & Evaluation in Early Childhood: Special Education	3
	5610:467	Management Strategies in Special Education	3
	5610:470	Clinical Practicum in Special Education	3
	7400:205	Aspects of Normal Language Development	3
,	Specializa	ation 22 credits:	
	7700:101	Beginning Sign Language	3
	5610:448	Developmental Characteristics of Individuals Moderate/Intensive	
		Educational Needs	4
	5610:453	Special Education Programming: Moderate/Intensive I	4
	5610:461 5610:497	Special Education Programming; Early Unitenced - Moderate/Intensive	3 8
	0010.40/	Construction and Faily Clarge local and a second control and	

Required for admission to the College of Education. Total of 29 credits.
 Those neceiving less than a "B" must take the PRAXIS I and pass for admission.

College of Business Administration

Stephen F. Hallam, Ph.D., *Dean* James T. Strong, Ph.D., *Associate Dean* James R. Emore, D.B.A., *Assistant Dean, Undergraduate Programs*

INTRODUCTION

The College of Business Administration (CBA) is a professional college of the University that is dedicated to teaching, business research, and public service. The college is accredited by the American Assembly of Collegiate Schools of Business (AACSB) and offers accredited baccalaureate and master's degree programs during the day, evenings, and weekends.

Mission Statement

The College of Business Administration promotes economic efficiency and the free enterprise system by preparing competent and responsible business leaders through comprehensive educational programs, relevant research, and professional service.

In our free society, effective leaders are indispensable, and effective business leaders are indispensable to the free enterprise system. The CBA educates a vital component of the region's business leaders and has prepared competent and responsible business leaders working throughout the world.

Effective Instruction

The CBA emphasizes effective teaching as the primary means to produce future business leaders. The faculty are strongly committed to being involved with CBA students, and to being accessible to them. The CBA attempts to provide relatively small class sections throughout the curriculum.

Effective teaching includes challenging our students through a variety of teaching methods. The college relies heavily upon case method, seminar presentation, skills performance methods (oral and written), discussion method, and experiential learning in addition to traditional lectures. These methods are used to: 1) involve the students actively in their own education by requiring preparation and performance; 2) instill in students the ability to educate themselves as a lifelong habit; and 3) prepare students to more effectively and quickly bridge the gap to competent business leadership.

In addition, the CBA must provide students with an education in solid management skills (critical thinking, problem analysis and solving, oral and written communications, computing and specific functional competencies), people skills (compassion, self-confidence, tolerance), and ethical values (responsibility and the ability to withstand the daily pressures of management without succumbing to personal interest). Exposure to business practitioners—in and out of the classroom—assists in achieving these goals. The CBA must introduce students to a basic understanding of professionalism, public service responsibilities, and the role of business in society. This requires that students develop a respect for learning and a preference for solutions that advance the public good. Further, the CBA emphasizes creativity, open-mindedness, and diverse cultural perspectives.

Since the college's inception, the college curriculum has been designed with equal emphasis on broad basic theoretical principles as well as immediate applied practices. Classroom knowledge is consistently made more significant by visits to businesses, the college's excellent tradition of student organizations, guest speaker programs, and other efforts to bring students and business people closer together.

COLLEGE REQUIREMENTS

Requirements for Admission

The College of Business Administration will admit students who have completed at least 40 semester hours of credit, who meet the academic performance requirements established by the faculty of the College, and who file an application for transfer.

Academic Performance Requirements:

- Complete the following coursework or equivalent as part of the 40-hour requirement:
 - 3450:141 Algebra with Business Applications or 3450:145 College Algebra
 - a behavioral science course
 - 3250:200 Principles of Microeconomics or 3250:201 Principles of Macroeconomics
 - 6200:201 Accounting Concepts and Principles for Business
- Earn at least a 2.30 overall grade-point average
- Earn at least a 2.00 grade-point average in business administration and economics courses.

Transfer Students

Transfer students and students using intercollege transfer from degree-granting colleges must satisfy the following admission requirements:

- Complete at least 40 semester hours of credit
- · Earn at least a 2.30 overall grade-point average
- Earn at least a 2.00 grade-point average in business administration and economics courses.

Refer to the transfer students section under Other Admissions below.

Other Admissions

Students accepted into the University Honors Program as business majors are automatically admitted to the College of Business Administration. Incoming freshman with appropriate credentials may receive **direct admission** to the College upon application (see University Admissions in **Section Three**).

University of Akron Students who meet all criteria for admission to the College of Business Administration, except the 2.3 grade-point average, are encouraged to apply for admission on an individual case basis. In these circumstances, an admission committee will consider a number of factors for the student's benefit, including: grades in the most recent course work, grades received in pre-business courses, ACT/SAT scores, and the difficulty of a previous major. Through the consideration of these indicators, students with a good probability of success in the College of Business Administration may be admitted. Application forms and procedures may be obtained from the College Office of Undergraduate Advising, located in Room 412 of the Business Administration Building. Telephone information is available at 330-972-7040.

Transfer students from other colleges and universities, including other degreegranting colleges within The University of Akron system, must meet the same grade-point average and credit-hour standards as University of Akron students. Transfer students who have not completed the course work listed under the Academic Performance Requirements will be conditionally admitted until the end of the semester one calendar year from the date of entrance into the program. Unconditional admission will be dependent upon successful completion of all course work required for admission into the College of Business Administration. In the event the student fails to complete all course work requirements within the calendar year, the student will be suspended from the College of Business Administration until all required course work has been successfully completed.

Transfer of Courses and Advanced Standing

Some courses taken outside of the University College or the College of Business Administration may be accepted in lieu of college and departmental requirements. The College of Business Administration will consider the following in determining whether or not to grant credit: the content, complexity and grading standards of courses taken elsewhere and the suitability of courses taken elsewhere for the program of study chosen here.

Transfér students from community and technical colleges are welcome. Students are encouraged to contact The University of Akron Office of Transfer and Articulation for information on transfer acceptance as soon as they have any intention of pursuing a baccalaureate degree, and preferably before completion of the two-year program.

Continuation of the Baccalaureate Program

Academic Probation

A CBA student shall be subject to academic probation if any one of the following three conditions exists:

- The accumulated GPA for all courses is less than 2.0; or
- The accumulated GPA for all CBA and Economics courses is less than 2.0; or
- The accumulated GPA in the major is less than 2.0.

Degrees

The College of Business Administration, organized on a departmental basis,offers programs of study in accounting, business administration, finance, management, marketing, sales, advertising and international business. Seven baccalaureate degrees are offered: the Bachelor of Science in Accountancy, the Bachelor of Science in Business Administration, the Bachelor of Science in Industrial Management, the Bachelor of Science in Business Administration/Marketing, the Bachelor of Science in Business Administration/Marketing, the Bachelor of Science in Business Administration/Advertising and the Bachelor of Science in Business Administration/Advertising and the Bachelor of Science in Business Administration/Advertising and the Bachelor of Science in Business.

Requirements for Graduation

To receive a baccalaureate degree from the College of Business Administration, a student must meet the following requirements:

- Complete a minimum of 128 semester credits with a minimum 2.00 gradepoint average. No more than two credits of physical education courses may be applied toward CBA degree requirements.
- At least 50 percent of the credits for graduation must be outside the College of Business Administration (6 credits in Quantitative Business Analysis I and II may be counted in the requirement for 50 percent outside the CBA).
- After transfer into the College of Business Administration, students may take any courses for free elective credit, except those courses which would be duplicative or significantly overlap any pre-business or CBA course.
- Obtain at least a 2.00 grade-point average for courses in the major as well as for courses in business administration and economics.
- At least 50 percent of the business credit hours required for a business degree must be earned at The University of Akron, including a minimum of 14 credits in the student's major program.
- Receive admission to the College of Business Administration and earn at least 15 credits within the college after admission is granted.
- Obtain the recommendation of the department faculty in the student's primary major.
- Complete other University requirements listed in Section 3 of this Bulletin.
- General Education requirement of 42 credits, including:

Gonoral Ed.	laation requirement of 12 ereane, metaanig.	Credits
3250:200	Principles of Microeconomics	3
Either of the fo	ollowing two sequences of mathematics:*	
3450:145	College Algebra and	4
3450:215	Concepts of Calculus I**	4
	OR	
3450:141	Algebra with Business Applications and	3
3450:210	Calculus with Business Applications	з
One course ch	osen from psychology or sociology.(3230:150 can substitute for 3850:100)	3

Complete the following core program in business and economics: Credits

rinciples of Macroeconomics	3
ccounting Concepts and Principles for Business	3
lanagerial Accounting	3
ficrocomputer Applications for Business	3
egal and Social Environment of Business#	3
or	
usiness Law I, 11 [#]	6
usiness Finance	3
luantitative Business Analysis I	3
luantitative Business Analysis II	3
lanagement: Principles and Concepts	3
rinciples of Operations Management	3
usiness Policy	3
farketing Principles	3
ternational Business	3
	inciples of Macroeconomics counting Concepts and Principles for Business anagerial Accounting icrocomputer Applications for Business gal and Social Environment of Business [#] or siness Law I, II [#] usiness Finance uantitative Business Analysis I uantitative Business Analysis II anagement: Principles and Concepts inciples of Operations Management usiness Policy arketing Principles ternational Business

Minor Areas of Study

For an explanation of minor areas of study in the College of Business Administration, see **Section 5** of this Bulletin.

Certificate Programs

The College of Business Administration offers certificate programs in Entrepreneurship, Financial Planning, Global Selling, International Business, Professional Selling, and Retail Marketing, which are described in **Section 6** of this Bulletin.

Cooperative Education Program

The requirements for the College of Business Administration's Cooperative Education Program are as follows:

- Attain college admissions status.
- Complete 3250:200, 201 and 6200:201, 202 with at least a 2.00 grade-point average.
- Apply for participation in the program through the college's director of Cooperative Education.

Three 15-week employment experiences are required, with no more than one work period in a summer. The work experience must relate to the business administration area.

Accountancy majors may take either 6400:321,2 or 6400:220. Accountancy majors plenning to become Certified Public Accountants (CPAs) should take 6400:321, 2. Other majors take 6400:220.

During the phase-in of these courses, students who have completed 3450:145 College Algebra (4 credits) may complete 3450:210 Calculus with Business Applications to setisfy their requirement.

^{**} Students contemplating and/or committed to going on to graduate school are recommended to complete 3450:215 Concepts of Calculus I.

PROGRAMS OF INSTRUCTION

6100: General Business

The Bachelor of Science in Business Administration (BSBA) program does not include a major per se. Instead, students complete the CBA core courses and two courses from each of the four departments in the college. This degree program is intended to offer flexibility to the student. Some students who intend to pursue careers in small business management, whether by creating or acquiring a business, or perhaps taking over a family business enterprise, may find the flexibility of this degree program best for them. Other students with more administrative experience may also prefer the larger course selection offered by this degree program.

For additional information, students should direct questions to the Director of CBA Undergraduate Programs.

6200: Accountancy

This option in the George W. Daverio School of Accountancy, is designed for students who wish to pursue careers in accounting, auditing, taxation, and information systems services. The functions of accountancy and information systems are essential to the decision-making process in commerce, industry, and government. There are exceptional opportunities for professional advancement regardless of career path and the type of institution a graduate may choose. Whether on pursues a career in public, private, governmental organization as an accountant or information systems specialist, the study of accounting concepts and procedures, and knowledge and skills in information technology are essential.

Graduates may pursue certification credentials such as Certified Management Accountants (CMA), Certified Internal Auditor (CIA) and Certified Information Systems Auditor (CISA). CISA is an information technology professional who specializes in the areas of audit, control and security.

After January 1, 2000, Ohio law requires 150 hours of college level education as a prerequisite for certification as a certified Public Accountant in the state of Ohio. CPA certification is generally required for careers in Public Accounting. Careers in industry, government, non-profit institutions or information systems consulting services do not require students to pass the CPA exam.

To receive a Bachelor of Science in Accounting degree from the George W.Daverio School of Accountancy, a student must complete the College requirements and the requirements for one of the two program options described below:

Professional Accounting Program*

For students pursuing professional careers in management accounting, internal auditing, government or non-profit institutions as an accountant: Credits

3300:275	Specialized Writing: Business	3
6200:300	Professional Orientation	1
6200:301	Course Management and Enterprise Resource Planning	3
6200:320	Accounting Information Systems	3
6200:321	Intermediate Accounting I	3
6200:322	Intermediate Accounting II	3
6200:430	Taxation I	3
6200:440	Auditing	3
6200:454	Information Systems Security	3
6200:460	Advanced Managerial Accounting	3
6200:xxx	Accounting electives	6

Students who elect to work in public accounting as a CPA should choose one of the following two avenues to meet the 150 semester hour requirements: (A) Complete the BSA as shown above and apply for the 30 credit-hour Master of Science in Accountancy program described in htte Graduate Bulletin: (B) Complete a minor or certificate program in conjunction with the BSA. It is important to note that sequencing of courses under this concentration is very important in order to maximize CPA examination readiness. Curriculum guides with suggested minors/certificate program and course sequencing are available in the School of Accountancy.

Accounting Information Systems (AIS) Program

For students who wish to pursue professional careers in information systems audit, control, security and consultancy in professional service firms such as accounting and professional consulting services firms as an information technology professional:

Credits

3300:275	Specialized Writing: Business	3
6200:300	Professional Orientation	1
6200:301	Cost Management and Enterprise Resource Planning	3
6200:316	Financial Applications Development	3
6200:320	Accounting Information Systems	3
	or	
6500:350	Fundamentals of Enterprise Resource Planning	3
6200:321	Intermediate Accounting I	3
6200:325	Financial Accounting Systems and Enterprise Resource Planning	3
6200:440	Auditing	3
6200:441	Information Systems Audit and Control	3
6200:454	Information Systems Security	3
6500:315	Applications Development for Business Processes	3
6500:325	Analysis, Design and Development of Information Systems	3

Communications skills are vital to career success. Students majoring in Accounting are encouraged to participate in the Student Toastmasters organization.

Lists of suggested electives, which will increase the student's likelihood of passing the CMA and the CIA examinations, are available in the School of Accountancy.

6400: Finance

The primary mission of the Department of Finance is to provide a quality education to students that will prepare them for leadership positions within the finance profession in business. Students acquire financial knowledge and skills that can be applied in a variety of environments. The study of finance prepares students to understand the financial transactions in today's global economy. Careers in finance include corporate finance, investment management, financial markets and institutions, and personal financial services.

Careers in corporate finance include financial analyst positions in manufacturing, commercial, and service enterprises where initial assignments might include financial planning, capital expenditure analysis, cash management, credit management, lease evaluation, mergers and acquisitions, and special projects. Students with an interest in investment management are trained for careers as account executives, security analysts, or portfolio managers in bank trust departments, securities brokerage firms, investment research firms, and investment banks. Careers in financial markets and institutions are available in banking, mutual funds, insurance companies, and other financial institutions. Banking careers include commercial lending, retail banking, treasury operations, trading, and trust operations. The rapidly expanding financial services field includes careers in personal financial planning, real estate, and insurance.

The finance curriculum offers students the opportunity to study in one of two specific areas of specialization – Corporate Financial Management and Financial Services. Students in the Financial Services program may also achieve a Concentration in Real Estate or Personal Financial Planning.

To receive a Bachelor of Science in Business Administration/Finance degree, the student must successfully complete one or the other of these 25-credit-hour programs:

Corporate Financial Management Program

All finance majors must complete four required major (core) courses with an average grade of "C" over the four courses. In addition, students in the Corporate Financial Management Program must complete five additional courses, one required and four electives:

Finance Core:		
6400:290	Career Planning and Analysis	1
6400:338	Financial Markets and Institutions	3
6400:343	Investments	3
6400:379	Advanced Business Finance	3
Required:		
6400:485	Financial Strategy	_3

13

Electives:

Select four elective courses (three must be 6400 courses) totaling at least 12 credits from the following:

		Credits
6400:403	Real Estate Finance	3
6400:415	Risk Management and Insurance	3
6400:436	Commercial Bank Management	3
6400:438/538	International Banking	3
6400:447	Security and Portfolio Analysis	3
6400:473	Financial Statement Analysis	3
6400:475	Commercial and Consumer Credit Management	3
6400:481	International Business Finance	3
6400:490	Selected Topics in Flnance	1-3
6400:495	Internship in Finance	1-3
6400:497	Honors Project	1-3
6200:301	Cost Management and Enterprise Resource Planning	3
6200:320	Accounting Information Systems	_3
		12
Total credits red	juired:	25

Financial Services Program

Einance Core

All finance majors must complete four required major (core) courses with an average grade of "C" over the four courses. In addition, students in the Financial Services Program must complete at least five (5) courses (at least 15 credits) from those listed below:

-			
	6400:290	Career Planning and Analysis	1
	6400:338	Financial Markets and Institutions	3
	6400:343	Investments	3
	6400:379	Advanced Business Finance	_3
			10
•	Select at least	five courses (at least 15 credits) from the following:	
	6200:410	Taxation for Financial Planning	3
	6400;323	International Business Law	3
	6400:325	Business and Society	3
	6400:332	Personal Financial Planning	3
	6400:390	Real Estate Principles: A Value Approach	3
	6400:402	Income Property Appraisal	3
	6400:403	Real Estate Finance	3
	6400:415	Risk Management and Insurance	3
	6400:424	Legal Concepts of Real Estate	3
	6400:432	Seminar in Financial Planning	3
	6400:436	Commercial Bank Management	3
	6400:438	International Banking	3
	6400:447	Security and Portfolio Analysis	3
	6400:473	Financial Statement Analysis	3
	6400:475	Commercial and Consumer Credit Management	3
	6400:481	International Business Finance	3
	6400:485	Financial Strategy	3
	6400:490	Selected Topics in Finance	1-3
	6400:495	Internship in Finance	1-3
	6400:497	Honors Project	1-3
	6600:275	Professional Selling	3
			15
	Total and its	ire di	25
	I otal credits requ	ileu.	25

Financial Services Program - Real Estate Concentration

A finance major completing the Financial Services Program with at least three of the courses below (9 credits) will be awarded a Concentration in Real Estate:

6400:390	Real Estate Principles: A Value Approach*	
6400:402	Income Property Appraisal*	
6400:403	Real Estate Finance*	
6400:424	Legal Concepts of Real Estate*	

Financial Services Program – Certified Financial Planner

A finance major completing the Financial Services Program who takes the following courses will qualify to sit for the Certified Financial Planner Certification Examination:

6200:410	Taxation for Financial Planning	3
6400:332	Personal Financial Planning	3
6400:343	Investments	3
6400:371	Business Finance	3
6400:415	Risk Management	3
6400:432	Seminar in Financial Planning	3

6400:390, 402, 403 and 424 are accepted by the Ohio Real Estate Commission to satisfy course work necessary for the Ohio License requirement.

6500: Management

The University of Akron was one of the first institutions of higher learning to establish an industrial management curriculum. Important factors in the decision to establish such a program were the location of the University in a major industrial area and the recognition of an emerging educational need.

The emphasis on education for management is the result of several factors. First, managers are becoming increasingly aware that a professional approach to management requires understanding of quantitative methods, the behavioral sciences and the use of computers. Second, the management task is becoming much more complex in terms of the number of activities, volume of work and the broader impact of managerial decisions. Third, the practice of management in any setting requires a measure of specific preparation and qualification.

Events of the past several years have brought about a rapid and sweeping change in the business and industry of our society. The major in industrial management reflects the complex directional problems of firms involved in manufacturing and/or service in a highly competitive and interactive global economy. The curriculum is designed to provide the student with a solid foundation in management. It also allows the student to emphasize a specific area of study by pursuing one of the management options.

The graduate with an industrial management degree finds many employment opportunities with firms in staff, supervisory and other management positions. The graduate possesses, in addition, the required basic understanding for effectively managing facilities, equipment, information and personnel in a variety of activities such as transportation, manufacturing, warehousing, research or institutional management. Also, the graduate has the fundamental preparation to undertake advanced study leading to a master's degree.

To receive the Bachelor of Science in Industrial Management with a major in management, a student must complete the common college Requirements for Graduation, and the requirements of one of the five options listed:

Human Resource Management Option

Management C	Credit	
6500:200	Career Orientation: Management	1
6500:302	Organization Behavior and Leadership Skills	3
6500:310	Business Information Systems	3
6500:471	Management Project	3
Required: Com	plete all 15 credits:	
6500:341	Human Resource Management	3
6500:342	Labor Relations	3
6500:350	Fundamentals of Enterprise Resource Planning	3
6500:442	Compensation Management	3
6500:443	Human Resources Selection and Staffing	3
Electives: Six c	redits:	
6x00:3xx/4xx	CBA Electives	6
Total credits rec	quired	31

Production/Operations Management Option

Management Core: Complete all 10 credits:

2 3

3 3

6500.200	Career Orientation: Management	1
6500:302	Organization Behavior and Leadership Skills	3
6500:310	Business Information Systems	3
6500:471	Management Project	3
Required: Com	plete all 12 credits:	
6500:333	Production and Operations Analysis	3
6500:341	Human Resource Management	3
6500:350	Fundamentals of Enterprise Resource Planning	3
6500:435	Quality Management and Control	3
Electives: Nine	credits:	
6x00:3xx/4xx	CBA Elective	3
Plus two course	es from the following:	
6500:334	Service Operations Management	3
6500:433	Business Operational Planning	3
6500:434	Production Planning and Control	:
Total credits re	auired	31

Supply Chain Management Option

Management Core: Complete all 10 credits:

6500.200	Career Orientation: Management	1
6500.200	Organization Bahavior and Leadershin Skills	3
0500.302	Digitization benavior and coddership Skins	2
6500:310	Business information systems	3
6500:471	Management Project	3

Required: Complete all 12 credits:

101	quireu. compi	
	6500:333 6500:341 6500:350 6500:390	Production and Operations Analysis Human Resource Management Fundamentals of Enterprise Resource Planning Principles of Supply Chein Management
Ele	ctives: Nine c	edits:
(6x00:3xx/4xx	CBA Elective
	Plus two courses 6500:334 6500:433 6500:434 6500:435 6600:370 Total credits requi	from the following: Service Operations Management Business Operations Planning Production Planning and Control Oualiny Management and Control Purchasing red
		Accounting Option
Ma	inagement Co	re: Complete all 10 credits:
1	6500:200 6500:302 6500:310 6500:471	Career Orientation: Management Organization Behavior and Leadership Skills Business Information Systems Management Project

Required: Complete all 15 credits: 6500:333 Production and Operations Analysis 6500:341 Human Resource Management 6500:350 Fundamentals of Enterprise Resource Planning 6200:301 Cost Management and Enterprise Resource Planning

6200:460	Advanced Managerial Accounting	3
Electives: Six c	redits:	
6x00:3xx/4xx	CBA Elective	3
Plus one course	e from the following:	
6500:334	Service Operations Management	3
6500:433	Business Operational Planning	3
6500:434	Production Planning and Control	3
Total credits re	avired	31

Information Systems Management Option

Management Core: Complete all 10 credits:

6500:200	Career Orientation: Management	
6500:302	Organization Behavior and Leadership Skills	:
6500:310	Business Information Systems	:
6500:471	Management Project	;
Required: Cor	nplete all 15 credits	
6500:315	Applications Development for Business Processes	:
6500:324	Data Management for Information Systems	:
6500:325	Analysis, Design and Development of Information Systems	:
6500:350	Fundamentals of Enterprise Resource Planning	:
6500:420	Telecommunications for Business	;
Electives: Six	credits (choose two courses from the following):	
6500:333	Production and Operations Analysis	;
6500:341	Human Resource Management	:
6500:425	Decision Support with Data Warehouses and Data Mining	:
6500.426	E-Business Infrastructure Management	:

6x00:3xx/4xx CBA elective Total credits required

E-Business Technologies Option

Required: Complete all 18 credits:

6100:201	Introduction to E-Business	3
6500:200	Career Orientation: Management	1
6500:302	Organization Behavior and Leadership Skills	3
6500:310	Business Information Systems	3
6500:315	Applications Development for Business Processes	3
6500:324	Data Management for Information Systems	3
6500:325	Analysis, Design and Development of Information Systems	3
6500:426	E-Business Infrastructure Management	3
6500:427	E-Business Systems Integration	3
6500:471	Management Project	3
Electives: Six	credits:	
6300:301	New Venture Creation	3
6500:334	Service Operations	3
6500:350	Fundamentals of Enterprise Resource Planning	3
6500:420	Telecommunications for Business	3
6500:425	Decision Support with Data Warehouses & Data Mining	3
6600:345	E-Marketing Practices	3
	-	

Total credits required

6600: Marketing

Credits

3

з

3

з

з

з

3

3 3

3

31

1

3

3

3

3

3

3

3

3

34

Marketing is concerned with exchange - the process by which individuals or organizations provide or receive anything of value. The American Marketing Association defines marketing as "the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives." While marketing was traditionally considered a business function actively practiced only by for-profit corporations, it is now generally accepted that a marketing perspective and the use of marketing techniques can improve the operation of any organization, including not-for-profit organizations, government agencies, and other groups and individuals who were not historically thought to be among the users of marketing concepts and practices.

Given the rather broad and encompassing view of marketing, it is not surprising that a significant proportion of the work force is employed in some aspect of the various marketing functions and activities. While job opportunities are diverse, some of the more common areas of employment include retail merchandising and management, product development and planning, physical distribution and channels, marketing communications and brand management, industrial purchasing, and marketing research. In addition, a significant proportion of marketing graduates launch and pursue very successful careers in professional selling and sales management within the business to business sector of the economy. Consequently, the Department of Marketing Management.

Our majors must meet all requirements of 1) the General Education program, 2) the Pre-Business program, 3) the College of Business Core program, 4) the required courses within each program, and 5) the elective courses within each program.

To receive a Bachelor of Science in Business Administration/Marketing degree, the student must select either the Marketing Management Major or the Sales Management Major and successfully complete one or the other of these programs.

Marketing Management Major*

Required: Cor	mplete all 23 credits	Credits
6600:275	Professional Selling	3
6600:293	Career Orientation	1
6600:350	Integrated Marketing Communications	3
6600:355	Buyer Behavior	3
6600:390	Principles of Supply Chain Management	3
6600:440	Product and Brand Management	3
6600:460	Marketing Research	3
6600:490	Marketing Strategy	3
6600:493	Career Management	1
Electives: Cor	nplete any 9 credits	
6600:345	E-Marketing Practices	3
6600:385	International Marketing	3
6600:450	Strategic Retail Management	3
6600:495	Internship in Marketing	3
6600:496	Special Topics in Marketing	3
Sales Ma	inagement Major*	
Required: Cor	mplete all 17 credits:	
6600:275	Professional Selling	3
6600:293	Career Orientation	1
6600:370	Purchasing	3
6600:460	Marketing Research	3
6600:475	Business Negotiations	3
6600-490	Seles Management	3

6600:493 Career Management Electives: Complete any 12 credits: 6600:350 Integrated Marketing Communications 6600:385 International Marketing 6600:390 Principles of Supply Chain Management Product and Brand Management 6600:440 6600:485 Global Sales Strategy 6600:495 Internship in Marketing 6600:496 Special Topics in Marketing 7600:235 Interpersonal Communications 7600:252 Persuasion

3

3

3

3

3

3

3

3

3

To complete this program as a second major, the student must take at least 12 credit hours of marketing courses in addition to the requirements for any other major, minor, or certificate that has been earned.

E-Marketing and Advertising

Majors can obtain internet-oriented advertising and promotion positions with manufacturers, retailers, service and nonprofit organizations, web development companies, research firms, and other consultants. While a major focus of this program is on electronic and traditional advertising, students will also be exposed to all other elements of the web-promotional mix including sales promotion, PR (publicity), professional selling and merchandising. Some of the more frequently available positions include website managers, media buyers, site development firm representatives and campaign planners.

Majors must meet all requirements of: (1) the General Education Program, (2) the Pre-Business Program, (3) the College of Business Administration Core Courses Program, (4) the E-Marketing-Advertising Major Required Courses and electives.

To receive a Bachelor of Science in Business Administration E-Marketing-Advertising degree, the student must successfully complete the following 29 credit hour program:

٠	Required: C	Complete all 26 credits	Credits
	6100:201	Introduction to E-Business	3
	6600:293	Career Orientation	1
	6600:345	E-Marketing Practices	3
	6600:350	Integrated Marketing Communications	3
	6600:355	Buyer Behavior	3
	6600:400	E-Marketing Promotions	3
	6600:420	E-Marketing Practicum	3
	6600:460	Marketing Research	3
	6600:490	Marketing Strategy	3
	6600:493	Career Management	1
٠	Electives: C	Complete any three credits.	
	6600:275	Professional Selling	3
	6600:385	International Marketing	3
	6600:440	Product and Brand Management	3
	6600:450	Strategic Retail Management	3
	6600:495	Internship and Marketing	3
	6600:496	Special Topics and Marketing	3
	7600:280	Media Production Techniques	3

6800: International Business

The dynamic changes in the world's physical, political, economic, and cultural environments are resulting in threats to the well being of both individuals and organizations, as well as creating totally new market opportunities for business firms and enterprises. The challenge is to effectively compete in the global marketplace as it exists today and develops tomorrow. This academic program views international business in the broad context of all business transactions devised and carried out across national borders to satisfy the organizational and personal goals of firms and individuals. International business studies incorporate all of the functional business operations of accounting, finance, management, and marketing; as such, it is an integrative field of study within an international framework. Given the growth and complexity of international business activities and practices, career opportunities are available and rewarding.

The International Business major must complete 1) the General Education program requirements, 2) the Pre-Business program requirements, 3) the College of Business Administration Core requirements, 4) the required courses within the International Business major, and 5) the elective courses within the International Business major.

To receive a Bachelor of Science in Business Administration/International Business, each student must successfully complete all of the course requirements outlined in each of the three required categories and one of the optional categories listed below.

R	equired Ca	tegories:			
٠	 International Business Core: 				
	(Complete all	courses 7 credits)			
	6800:290	Global Business Perspectives	1		
	6800:405	Multinational Corporations	3		
	6800:421	International Business Practices	3		
٠	Internation	al Business Functional Specialties:			
	(Complete four courses 12 credits)				
	6200:408	International Financial Reporting & Analysis	3		
	6400:481	International Business Finance	3		
	6500:457	International Management	3		
	6600:385	International Marketing	3		
٠	Internation	al Capstone Field Experience:			
	(Complete on	e or more courses — 3 credits)			
	6800:494	International Business Practicum	1-3		
	6800:495	Internship in International Business	1-3		

 International 	al Capstone Topical Investigations:	
(Complete on	(Complete one or more courses - 2 credits)	
6400:323	International Business Law	3
6400:438	International Banking	3
6500:459	Special Topics in International Management	1-3
6800:496	Special Topics in International Business	1-3
6800:497	Honors Project	1-3
6800:499	Independent Study: International Business	1-3
	· ·	

Global Interdisciplinary Option:

(Complete for	ur courses — 12-14 credits)	
3230:370	Cultures of the World	3
3250:450	Comparative Economic Systems	3
3250:460	Economic Development & Planning For Underdeveloped Nations	3
3250:461	Principles of International Economics	3
3350:320	Economic Geography	3
3350:353	Latin America	3
3350:356	Europe	3
3350:360	Asia	3
3350:363	Africa South of the Sahara	3
3350:450	Development Planning	3
3700:300	Comparative Politics	4
3700:310	International Politics And Institutions	4
3700:312	The Politics of International Trade and Money	3
3700:321	Western European Politics	3
3700:322	Politics of Post-Communist States	3
3700:323	Politics of China and Japan	3
3700:326	Politics Of Developing Nations	3
Total with G	lobal Interdisciplinary Option:	36-38

Foreign Language Option:

(Complete Or	ne Language Sequence — 11 credits)	
3520:xxx	French Language	
3520:101	Beginning French I	4
3520:102	Beginning French II	4
3520:201	Intermediate French I	3
3530:xxx	German Language	
3530:101	Beginning German I	4
3530:102	Beginning German II	4
3530:201	Intermediate German I	3
355 0 :xxx	Italian Language	
3550:101	Beginning Italian I	4
3550:102	Beginning Italian II	4
3550:201	Intermediate Italian I	3
3570:xxx	Russian Language	
3570:101	Beginning Russian I	4
3570:102	Beginning Russian II	4
3570:201	Intermediate Russian I	3
3580:xxx	Spanish Language	
3580:101	Beginning Spanish I	4
3580:102	Beginning Spanish II	4
3580:201	Intermediate Spanish I	3
Total with F	oreign Language Option:	35

College of Fine and Applied Arts

Mark Auburn, Ph.D., Dean

OVERVIEW

The College of Fine and Applied Arts comprises seven schools and E.J. Thomas Performing Arts Hall. Three are "fine/performing arts" schools: Art, Dance, Theatre, and Arts Administration; and Music. Four are "applied arts" schools: Communication; Family and Consumer Sciences; Social Work: and Speech-Language Pathology and Audiology.

These seven schools share one common mission — to provide education that improves the human condition. In addition to preparing students for graduate study and professional career opportunities, the College seeks to benefit the larger community by enriching the creative and cultural climate, thereby enhancing the quality of life for individuals.

COLLEGE REQUIREMENTS

Requirements for Admission

To be admitted to the College of Fine and Applied Arts, the student must have completed at least 30 credits of work with at least a 2.30 grade-point average or above and have the approval of the dean. A student transferring to the School of Art from another institution must submit a portfolio of work for approval before admission. A student transferring from another college or institution into the music program must submit to a placement examination and an audition. The longer and more professionally oriented programs should be started during the first or second year when the student is still under the guidance of the Office of Academic Advising. The shorter majors need not be declared before the student is ready for transfer to the college. At the time of admission to the college, the student is assigned an adviser by the Director of the School.

Requirements for Baccalaureate Degrees

- Compliance with University requirements, Section 3 of this Bulletin.
- · Completion of a major program of instruction (see below).
- Electives consisting of courses offered for credit in the University's four-year degree programs, provided that the prerequisites as set forth in this Bulletin are met, and further provided that not more than two credits of physical education activities, eight credits of applied music or four credits of music organizations are included. (Credit limitations on applied music and music organizations do not apply to the Bachelor of Music degree.) While credits from another institution or college may be accepted, application toward graduation will depend upon the nature of the student's program of study.
- The recommendation of the director of the student's major school.
- Demonstrated ability to use English. One other language may be required depending upon the degree program.

Degrees

- The following baccalaureate degrees are granted in the College of Fine and Applied Arts:
- Bachelor of Arts in Studio Art, Art History
- Bachelor of Fine Arts (Ceramics, Drawing, Graphic Design, Metalsmithing, Painting,
- Photography, Printmaking, Sculpture) Bachelor of Arts: Family and Child Development, Food Science, Pre-Kindergarten,
- Child-Life Specialist
- Bachelor of Arts in Fashion Merchandising:
- Apparel, Home Furnishings, and Fiber Arts tracks
- Bachelor of Arts in Interior Design Bachelor of Science in Dietetics
- Bachelor of Arts in Family and Consumer Sciences Education
- Bachelor of Arts in Music
- Bachelor of Music in Performance, History and Literature, Theory/Composition,
- Jazz Studies, and Music Education
- Bachelor of Arts in Communication Bachelor of Arts in Business and Organizational Communication, Interpersonal and Public
- Communication, Mass Media–Communication Bachelor of Arts in Speech-Language Pathology and Audiology
- Bachelor of Arts in Social Work
- Bachelor of Arts/Social Work
- Bachelor of Arts in Theatre Arts
- Bachelor of Arts in Theatre Arts-Musical Theatre Bachelor of Arts in Dance
- Bachelor of Fine Arts in Dance

Bachelor of Fine Arts in Dance-Musical Theatre

Graduation Requirements

A student must earn a major in a school of the college. A major consists of 24 to 62 credits in addition to the required General Education and, in the case of the Bachelor of Arts degree, foreign language courses. Part or all of these credits may be taken in specifically required courses depending upon the major. The exact requirements for each major will be found on the following pages in the section headed "Programs of Instruction."

Minor Areas of Study

For an explanation of minor areas of study in the College of Fine and Applied Arts, see **Section 5** of this Bulletin.

PROGRAMS OF INSTRUCTION

Bachelor of Arts in Interdisciplinary Studies

This degree meets the needs of students who have an interdisciplinary academic goal. It expands opportunities for non-traditional students to complete their degrees at The University of Akron by allowing them to combine courses from various colleges to design a program. For more information on the program, see page 94.

7100: Art

Bachelor of Arts

- · Two years of a foreign language as required by major.
- · Completion of studio or art history option as required by major.
- Electives 6-25 credits.
- 7100:100 Survey of History of Art I, 7100:101 Survey of History of Art II, 7100:210 Visual Arts Awareness (included in General Education), and elective art history course(s) as required by major.

Studio Art Option

- General Education (including 7100:210 Visual Arts Awareness) 42 credits
- Completion of the second year of a foreign language or the following courses in American Sign Language — 14 credits:

		Credits
7700:101	Introduction to American Sign Language	3
7700:102	American Sign Language I	3
7700:103	Arts Orientation	0
7700:201	American Sign Language II	3
7700:202	Conversational American Sign Language	3
7700:222	Survey of Deaf Culture in America	. 2

- Studio art course work, including one course in each of six different areas of emphasis: e.g., printmaking, sculpture — 42 credits.
- Survey of History of Art I and II (7100:100,101) plus one additional advancedlevel art history course — 11 credits.
- Minimum Semester Hours Required 128 credits.

History of Art Option (Second-year of a foreign language required)

- General Education (including 7100:210 Visual Arts Awareness) and second year of a foreign language — 56 credits
- History of art including 7100:100,101 Survey of History of Art I and II, one history of art symposium, one special problems in history of art course, one special topics in history of art ---- 38 credits.
- Studio art course work to include at least four different areas of emphasis: e.g., painting, photography (7100:275 recommended) — 12 credits.

Art Education Options

B.A. in Art Studio with Licensure in 12 Art Education

General Education requirement — 39 credits.

•	Art Studio Cou	urses — 42 credits.	Credits
	7100:103	Arts Orientation	0
	7100:131	Introduction to Drawing	3
	7100:144	Two-Dimensional Design	3
	7100:145	Three-Dimensional Design	3
	7100:222	Introduction to Sculpture	3
	7100:233	Life Drawing	3
	7100:244	Color Concepts	3
	7100:213, 4, 5	Introduction to Lithography, Screen, or Relief Printing	3
	7100:245, 6, 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3
	7100:254	Introduction to Ceramics	3
	7100:266	Introduction to Metalsmithing	3
	7100:275	Introduction to Photography	3
		Art Studio electives beyond the introductory level	12
•	Art History Co	urses — 20 credits.	
	7100:100	Survey of History of Art I	4
	7100:101	Survey of History of Art II	4
	7100:210	Visual Arts Awareness	3
	7100:300	Art Since 1945	3
	7100:402	Museology	3
	3600:350	Philosophy of Art	3

• Professional education (including student teaching) — 41 credits.

Note: The National Teacher Exam (NTE) is required for certification. Students must take the general knowledge, professional knowledge, and art education segments of the NTE.

B.A. in Art Studio with Licensure in 7-12 Art Education

General Education requirement — 39 credits.

•	Art Studio Cou	urses — 42 credits.	
	7100:131	Introduction to Drawing	3
	7100:144	Two-Dimensional Design	3
	7100:145	Three-Dimensional Design	3
	7100:222	Introduction to Sculpture	3
	7100:233	Life Drawing	3
	7100:244	Color Concepts	3
	7100:213, 4, 5	Introduction to Lithography, Screen, or Relief Printing	3
	7100:245, 6, 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3
	7100:254	Introduction to Ceramics or	3
	7100:266	Introduction to Metalsmithing	3
	7100:275	Introduction to Photography	3
		Art Studio electives beyond the introductory level	12
•	Art History Co	urses — 20 credits.	
	7100:100	Survey of History of Art I	4
	7100:101	Survey of History of Art II	4
	7100:210	Visual Arts Awareness	3
	7100:300	Art Since 1945	3
	7100:402	Museology	3
	3600:350	Philosophy of Art	3
٠	Professional e	ducation (including student teaching) — 36 credits.	

Note: The National Teacher Exam (NTE) is required for certification. Students must take the

general knowledge, professional knowledge, and art education segments of the NTE.

B.A. in Art History with Licensure in 12 Art Education

General Education requirement — 39 credits

•	Art Studio Co	ourses — 39 credits.	Credits
	7100:131	Introduction to Drawing	3
	7100:144	Two-Dimensional Design	3
	7100:145	Three-Dimensional Design	3
	7100:222	Introduction to Sculpture	3
	7100:233	Life Drawing	3
	7100:244	Color Concepts	3
	7100:213, 4, 5	Introduction to Lithography, Screen, or Relief Printing	3
	7100:245, 6, 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3
	7100:254	Introduction to Ceramics	3
	7100:266	Introduction to Metalsmithing	3
	7100:275	Introduction to Photography	3
		Art Studio electives beyond the introductory level	9
•	Art History C	ourses — 47 credits.	
	7100:100	Survey of History of Art I	4
	7100:101	Survey of History of Art II	4
	7100:210	Visuai Arts Awareness	3
	7100:300	Art Since 1945	3
	7100:402	Museology	3
	3600:350	Philosophy of Art	3
		Other Art History courses as required by major	27
٠	Professional	education (including student teaching) — 41 credits.	

Note: The National Teacher Exam (NTE) is required for certification. Students must take the general knowledge, professional knowledge, and art education segments of the NTE.

B.A. in Art History with Licensure in 7-12 Art Education

General Education requirement --- 39 credits.

Art Studio Cou	urses — 39 credits.		
7100:131	Introduction to Drawing	3	
7100:144	Two-Dimensional Design	3	
7100:145	Three-Dimensional Design	3	
7100:222	Introduction to Sculpture	3	
7100:233	Life Drawing	3	
7100:244	Color Concepts	3	
7100:213, 4, or 5	Introduction to Lithography, Screen, or Relief Printing	3	
7100:245, 6, or 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3	
7100:254	Introduction to Ceramics	3	
7100:266	Introduction to Metalsmithing	3	
7100:275	Introduction to Photography	3	
	Art Studio electives beyond the introductory level	9	
Art History Co	urses — 47 credits.		
7100:100	Survey of History of Art I	4	
7100:101	Survey of History of Art II	4	
7100:210	Visual Arts Awareness	3	
7100:300	Art Since 1945	3	
7100:402	Museology	3	
3600:350	Philosophy of Art	3	
	Other Art History courses as required by major	27	
Professional education (including student teaching) 36 credits.			

Professional education (including student teaching) — 36 credits.

Note: The National Teacher Exam (NTE) is required for certification. Students must take the general knowledge, professional knowledge, and art education segments of the NTE.

Bachelor of Fine Arts

- General Education requirement 42 credits.
- Foundations Curriculum in Art

7100:100	Survey of History of Art I	4
7100:101	Survey of History of Art II	4
7100:103	Arts Orientation	0
7100:131	Introduction to Drawing	3
7100:144	Two-Dimensional Design	3
7100:145	Three-Dimensional Design	3
7100:210	Visual Arts Awareness	3
7100:233	Life Drawing	3
7100:250	Foundations Review	0

- Electives 6-9 credits.
- Two advanced-level art history courses (one for graphic design emphasis students).

0

- Senior exhibition:
 - 7100:495 Senior Exhibition
- Portfolio review as specified for student's area of emphasis.
- Studio art courses must include one area of major emphasis as described below, plus studio electives to equal no less than 38 credits.

Ceramics		Credits		One of the follo	wing:	Credits
7100:222	Introduction to Sculpture	3		7100:243	Introduction to Painting	3
7100:231	Drawing II	3		7100:246	Introduction to Watercolor Painting	3
7100:254	Introduction to Ceramics	3	S	culpture		
7100:354	Ceramics II	3	-	7100:131	Introduction to Drawing	3
7100:454	Advanced Ceramics (to be repeated)	15		7100:185	Introduction to Computer Graphics	3
7100:456	Ceramics Portfolio Review	0		7100:222	Introduction to Sculpture	3
Graphic Desig	n			7100:231	Drawing I	3
7100-132	Previous for Designers	3		7100:254	Introduction to Ceramics	3
7100.132	Granbic Design Principles	3		7100.204	Or	v
7100.104	Introduction to Computer Graphics	3		7100:266	Introduction to Metalsmithing	3
7100.100	Drawing II	3		7100:321	Figurative Sculpture	3
7100.231	Drawing in	3		7100:322	Sculpture II	3
7100.275	Introduction to Photography	3		7100:323	Lost Wax Casting	3
7100.270	Introduction to Fronessional Friotography	3		7100:420	Sculpture Portfolio Review	0
7100.200	Traggereby	3		7100:422	Advanced Sculpture (to be repeated)	9
7100.200	I ypography Intermediate Computer Design	3				
7100.203	Granhia Dasign Bottfolio Boxiaw	0	G	5.F.A. Aft	Education Options	
7100.384	Packaging Design	3	B	FA with Li	censure in 12 Art Education	
7100.300	Advectional event Design	3				
7100:387	Adventising Layout Design	3	•	General Educ	cation requirement — 42 credits.	
7100.300	Comparete Identity and Craphic Systems	3				
7100:462	Colporate identity and Graphic Systems	3	•	Art Studio Co	ourses — 69 credits.	
7100:464	A diversity of Mustavisian	3		7100:103	Arts Orientation	0
7100:485	Advanced Illustration	3	•	7100:131	Introduction to Drawing	3
7100:480	Advanced Graphic Design	3		7100:144	Two-Dimensional Design	3
7100:488	Publication Design	3		7100:145	Three-Dimensional Design	3
7100:483	Graphics Portfolio Presentations	3		7100:222	Introduction to Sculpture	3
Matalanithing	· · · · · · · · · · · · · · · · · · ·			7100:233	Life Drawing	3
wetaismitting		•		7100:244	Color Concepts	3
7100:185	Introduction to Computer Graphics	3		7100:213, 4, 5	Introduction to Lithography, Screen, or Relief Printing	3
7100:222	Introduction to Sculpture	3		7100:245, 6, 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3
7100:266	Introduction to Metalsmithing	3		7100:254	Introduction to Ceramics	3
7100.268	Color in Metals	3		7100-000	Or Internet antine de Mana-lan-intrine	~
7100:366	Metalsmithing II	3		7100:200	Introduction to Metalsmithing	3
7100:466	Advanced Metalsmithing (to be repeated)**	12		/100:275	Introduction to Photography	3
7100:467	Metalsmithing Portfolio Review	0			Other Art Studio courses as required by major	39
7100:283	Drawing Techniques		•	Art History C	Courses — 19-22 credits.	
	or			7100:100	Survey of History of Art I	4
7100:231	Drawing II	3		7100:101	Survey of History of Art II	4
7100:254	Introduction to Ceramics	3		7100:210	Visual Arts Awareness	3
Painting/Draw	ring			7100:300	Art Since 1945	3
7100:185	Introduction to Computer Graphics	3		7100:401	Museology	2
7100:213, 214				3600:350	Philosophy of Art	3
215 or 216	One intro-level course in Printmaking	3			Other Art History courses as required by major	0-3
7100:243	Introduction to Painting	3		Professional	education (including student teaching) - 41 credite	
7100:300	Art Since 1945	3	-	1101633101101	education (including student teaching) — 41 creats.	
7100:335	Intermediate Life Drawing	3		Note: The Natio	onal Teacher Exam (NTE) is required for certification. Students must i	take the
7100:348	Intermediate Painting	3		general knowled	dge, professional knowledge, and art education segments of the NTI	ε.
7100:349	Intermediate Drawing (to be repeated)	6	P	EA with Li	concurs in 7-12 Art Education	
7100.450	Advanced Life Drawing/Life Painting	6				
7100.455	Advanced Drawing/Painting (to be repeated)	6	•	General Educ	cation requirement 42 credits.	
7100:000	Art History elective	3				
7100:000	Art Studio electives	24	•	Art Studio Co	ourses — 69 credits.	
Dhata manhu		24		7100:131	Introduction to Drawing	3
rnotograpny		-		7100:144	Two-Dimensional Design	3
3650:137	Light	3		7100:145	Three-Dimensional Design	3
7100:185	Introduction to Computer Graphics	3		7100:222	Introduction to Sculpture	3
7100:275	Introduction to Photography	3		7100:233	Life Drawing	3
/100:276	Introduction to Professional Photography	3		7100:244	Color Concepts	3
7100:285	Digital (maging	3		7100:213, 4, 5	Introduction to Lithography, Screen, or Relief Printing	3
7100:370	History of Photography	3		7100:245, 6, 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3
7100:375	Photography II	3		7100:254	Introduction to Ceramics	3
7100:475	Advanced Photography (to be repeated)	12			or	
7100:476	Photography Portfolio Review	0		7100:266	Introduction to Metalsmithing	3
7100:477	Advanced Photography: Color	3		7100:275	Introduction to Photography	3
7100:479	Professional Photographic Practices	3			Other Art Studio courses as required by major	39
7100:xxx	Printmaking (to be selected from the courses offered in Printmaking)	3	•	Art History C	ourses — 19-22 credits.	
Printmaking				7100:100	Survey of History of Art I	4
Three of the follo	wing:			7100:101	Survey of History of Art II	4
7100:213	Introduction to Lithography	3		7100:210	Visual Arts Awareness	3
7100:214	Introduction to Screen Printing	3		7100:300	Art Since 1945	3
7100:215	Introduction to Relief Printing	3		7100:402	Museology	3
7100:216	Introduction to Intaglio Printing	3		3600:350	Philosophy of Art	3
Required:	······································	-			additional Art History courses as required by major	0.3
7100:185	Introduction to Computer Graphics	3	•	Professional	aducation (including student teaching) 26 credite	
7100:231	Drawing II	3	•	TOTESSIONAL	eudeadori (including student teaching) — 30 credits.	
7100:275	Introduction to Photography	3		Note: The Natio	nal Teacher Exam (NTE) is required for certification. Students must t	take the
7100:317	Printmaking II (must be repeated)	6		general knowled	ige, professional knowledge, and art education segments of the NTI	Ē.
7100:319	Printmaking Review	õ			· · · · · ·	
7100:375	Photography II	3				
7100:418	Advanced Printmaking (must be repeated)	6				
	• · · · · · · · · · · · · · · · · · · ·	-				

Required to be repeated once for drawing emphasis students only (6 credits total).
 ** May take one 7100:368 Color in Metals II in place of one 7100;466.

7400: Family and Consumer Sciences*

The mission of the School of Family and Consumer Sciences is to prepare professionals to take leadership positions as generalists and specialists in the areas of family and consumer science. These include dietetics, family and child development, child life, nutrition, clothing, textiles and interiors and vocational food science education. Graduates are employed in public and private sectors in retailing, health and human services, dietetics, nutrition education and counseling, commercial and interior design, child care in hospital and community settings, food product development, food service administration, and teaching in private and public schools.

- General Education Requirement 42 credits.**
- Family and Consumer Sciences Core:

All students enrolled in baccalaureate programs in the School of Family and Consumer Sciences are required to complete the following core of requirements:

		Credits
7400:147	Orientation to Professional Studies in Family and Consumer Sciences	1
	& Family Ecology	
7400.447	Senior Seminar: Critical Issues in Professional Development	1

One course to be chosen from each of the following divisions outside the area of specialization:

Clothing, Textile	es and Interiors:	
7400:225	Textiles	3
7400:259	Family Housing	3
7400:219	Clothing Communication	3
Family and Child Development:		
7400:201	Courtship, Marriage and the Family	3
7400:265	Child Development	3
Nutrition/Dietetics and Food Science:		
7400:133	Nutrition Fundamentals‡	3
7400:141	Food for the Family	3
Management:		
7400:362	Family Life Management	3

Bachelor of Arts in Family and Child Development

This degree offers the following emphases: family development, child development, pre-kindergarten teaching certification and child-life specialist. Students interested in pre-kindergarten teaching certification should consult an adviser from the School of Family and Consumer Sciences during first semester freshman year. In addition to departmental requirements listed under 7400: Family and Consumer Sciences, a student must complete one of the following options:

Family Development

3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
7400:201	Courtship, Marriege and the Family	3
7400:255	Fatherhood: The Parent Role	3
7400:265	Child Development	3
7400:300	Legal Environment of Families	3
7400:301	Consumer Education	3
7400:360	Parent-Child Relations	3
7400:390	Family Relationships in Middle and Later Years	. 3
7400:401	Family-Life Patterns in Economically Deprived Home	2
7400:404	Adolescence in the Family Context	3
7400:406	Family Financial Management	3
7400:440	Family Crisis	· 3
7400:442	Human Sexuality	3
7400:496	Parent Education	3
7400:497	Intemship: Family and Consumer Sciences	5
7750:276	Introduction to Social Welfare	4
	Electives selected in consultation with adviser	9

 The second year of a foreign language is an optional requirement for the School of Family and Consumer Sciences. Please consult with an adviser in the the proper degree area for options available.

** The University College's General Education requirement for the Bachelor of Science in Dietetics and the Bachelor of Arts in Food and Consumer Sciences is 45 credits. The additional three credits come from the use of 3150:129.30 General Chemistry (8 credits) to meet the natural sciences requirements, and from the use of 3850:100 Introduction to Sociology (4 credits) and 3250:100 Introduction to Economics (3 credits) to meet the social sciences requirements. The abovementioned courses meet the American Dietetic Association requirements.

Child Development

		Ciedits
2200:245	Infant/Toddler Day-Care Programs	3
2200:250	Observing and Recording Child Behavior	3
5200:310	Introduction to Early Childhood	3
5200:315	Issues and Trends in Early Childhood Education	3
5200:360	Teaching in the Early Childhood Center	2
5200:370	Early Childhood Center Laboratory	2
5850:295	Education Technician Field Experience	5
	or	
7400:497	Internship: Family and Consumer Sciences	5
7400:132	Early Childhood Nutrition	2
7400:201	Courtship, Marriage and the Family	3
7400:255	Fatherhood: The Parent Role	3
7400:265	Child Development	3
7400:270	Theory end Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	4
7400:303	Children As Consumers	3
7400:360	Parent-Child Relations	3
7400:401	Family-Life Patterns in Economically Deprived Home	2
7400:404	Adolescence in the Family Context	3
7400:460	Organization and Supervision of Child-Care Centers	3
	Electives selected in consultation with adviser	9

Child Life Specialist

The Child-Life Specialist works in a medical setting with children and their families. The psychosocial stress of hospitalization and medical procedures are reduced through nomalization of the environment, developmentally appropriate activities, preparation and support for medical procedures and therapeutic play.

To become a Certified Child Life Specialist, a student must complete the academic requirements, three field experiences as defined by the Child Life Council and pass the Certification Examination of the Child Life Council. Level 1 field experience includes 75 to 150 hours working with normally developing children in a non-medical setting. Field level 2 and 3 experiences occur in a Child Life program at an approved pediatric facility under the supervision of Academic and Clinical Certified Child Life Specialists. Field level 2 practicum includeds 100 hours in the clinical setting and weekly class meetings. Field level 3 internship ranges from 480 to 650 hours, to be completed in an intensive, full-time format.

Key to the success of any educational program is its interaction with the professional community. The Child Life Program has an active Advisory Board with representation from the profession. The members of the Advisory Board are:

Mary Barkley, CCLS, Rainbow Babies and Children's Hospital Cleveland, OH, DeAnne Bunevich, CCLS, Tod Children's Hospital, Youngstown, OH, Gary Kitaoka, CCLS, Cleveland Clinic Foundation, Cleveland, OH, Toni Millar, CCLS, Rainbow Babies and Children's Hospital, Cleveland, OH, Sally Niklas, CCLS, MetroHealth Medical Center, Cleveland, OH, Mandy Post, CCLS, MetroHealth Medical Center, Cleveland, OH, Brenda Powell, CCLS, Children's Hospital Medical Center of Akron, OH, Gena Valloric, CCLS, Children's Hospital Medical Center of Akron, OH

The Organization for Children's Health Care is a University of Akron student group for the professional development of students preparing for a career working ing the pediatric medical field. Gena Valloric, CCLS and Brenda Powell, CCLS serve as clinical sponsors. Jeanne Thibo Karns, Ph.D., CCLS serves as a faculty sponsor.

Admission to the Child Life Program:

Only 12 students per year are accepted into the program. Applications are accepted by October 1 and March 1 of each year. Students who wish to apply must have completed 36 credits with a minimum GPA of 3.0. The application includes an information form, an essay and three letters of reference. Admission packets may be obtained at the school of Family and Consumer Sciences. Students must meet the College of Fine and Applied Arts Requirements for Admission. Previous volunteer experience in a pediatric hospital, although not required, is encouraged before applying for the Child Life Program. Upon admission into the program, students will sign a Child Life Specialist Contract and must maintain a grade point average of 3.0 in all courses. Students group Organization for Children's Health Care and the national professional organization, the Child Life Council.

Detailed information on admission to this program of study may be obtained by writing to: Jeanne Thibo Karns, Ph.D., CCLS, Coordinator of Child Life Program, 215 Schrank Hall South, University of Akron, Akron, OH 44325-6103.

,

2740:120	Medical Terminology	3
3750:100	Introduction to Psychology	3
3750:430	Psychological Disorders of Children	4
5200:360	Teaching in Early Childhood School	2
5200:370	Early Childhood Center Laboratory	2
5600:450	Counseling Problems Related to Life Threatening Illness and Death	3
5610:440	Developmental Characteristics of Exceptional Individuals	3
7400:270	Theory and Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	4
7400:404	Adolescence in the Family Context	3
7400:451	The Child in the Hospital	4
7400:455	Practicum Experience in a Child+Life Program	3
7400:484	Orientation to the Hospital Setting	2
7400:495	Internship: Guided Experience in a Child-Life Program	8
7400:496	Parent Education	3
	Electives selected in consultation with adviser	11

Bachelor of Arts in Food and Consumer Sciences

In addition to school requirements listed under 7400: Family and Consumer Sciences, the student must complete the following courses:

Core			
	(A minimum grad	e of C (2.00) required)	
	7400:245	Food Theory and Application I	3
	7400:246	Food Theory and Application II	3
	7400:420	Experimental Foods	3
	7400:470	The Food Industry: Analysis and Field Study	3
	7400:475	Analysis of Food	3
	7400:497	Internship: Family and Consumer Sciences	5
Food Science Electives:			
	(Students select o	one or more of the following upper division Food Science courses. A min	i m um
	grade of C is requ	ired.)	
	7400:403	Advanced Food Preparation	3
	7400:474	Cultural Dimensions of Food	3
	7400:476	Developments in Food Science	3
•	Supporting Dis	scipline Requirements:	
	3300:390	Professional Writing	3
	0000.000	OF	•
	2020:222	Software Fundamentals	3
	3100 130	Principles of Microbiology	3
	3750:100	Introduction to Psychology	3
	6500:301	Management Principles and Concepts	3
	6600:300	Marketing Principles	3
	7400:301	Consumer Education	3
	7400:310	Food Systems Management I	5
		and	
	7400:315	Food Systems Management I, Clinical	2
		or Desire the	
	2280:233	Restaurant Operations and Management	4
	7400:310	Science of Nutrition	4
	7400:450	Demonstration Techniques	2
	Science Electi	2005	
	(Students choose	et least six credits from the following courses)	
(Souterins choose at least six cleans norm the following courses.) 2840:201/202/255/270 3100:111/206/207/211-2/217/331/400/440 2150:124255239401 5441			
3150.134/359/350/4013/411 3650-137.9/361/301			
	7400-424/426/49	7/474/475/476/485/490/491	
	,		

Bachelor of Arts in Fashion Merchandising

This degree offers emphases in three fashion-related areas: apparel, home furnishings, and fiber arts. Courses from the College of Business Administration and/or the Community and Technical College compliment the degree by providing study in marketing, promotion, sales, and retailing. In addition to departmental requirements listed under 7400: Family and Consumer Sciences, a student must complete the courses in the core and the courses in one track.

C	ore:		Credits
	6600:275	Professional Selling or	3
	2520:212	Principles of Sales	3
	6600:350	Integrated Marketing Communications or	3
	2520:103	Principles of Advertising	3
	6600:305	Essentials of Retailing or	3
	2520:202	Retailing Fundamentals	3
	6600:300	Marketing Principles	3
	2520:101	Essentials of Marketing Technology	3
	7400:123	Fundamentals of Construction	3
	7400:139	The Fashion and Furnishings Industries	3
	7400:225	Textiles	3
	7400:352	Strategic Merchandise Planning	3
	7400:425	Advanced Textiles	3
	7400:427	Global Issues in Textiles and Apparel	3
	7400:439	Fashion Analysis	3
Tı	ack Options:	Students must complete one track	
٠	Apparel Track		
	7400:125	Principles of Apparel Design	3
	7400-219	Clothing Communications	3
	7400:213	Evaluation of Annaral and Household Taxtiles	3
	7400:437	Historic Costume	å
	7400:438	History of Fashion	3
	7400:xxx	Apparel, Home Furnishings, and Fiber Arts Tracks Electives (see below	w) 9
•	Home Furnish	ings Track:	
	7400.450	Internet antine to beta free Bassine	•
	7400:158	Introduction to interior Design	3
	7400:221	Evaluation of Apparel and Household Textiles	3
	7400:259	Family Housing	3
	7400:334	Specifications for Interiors I	3
	/400:335	Specifications for interiors II	3
	7400:336	Principles and Practices of Design	3
	/400:418	History of Intenor Design I	4
	/400:419	History of Intenor Design II	4
•	Fiber Arts Trac	X :	
	7400:125	Principles of Apparel Design or	3
	7400:158	Introduction to Interior Design	3
	7400:311	Seminar in Fiber Arts	6
	7400:418	History of Interior Design I AND	4
	7400:419	History of Interior Design II or	4
	7400:437	Historic Costume AND	3
	7400:438	History of Fashion	3
	7400000	Apparel, Home Furnishings, and Fiber Arts Electives (see below)	9
Ę	ectives for A	parel, Home Furnishings, and Fiber Arts Tracks:	
(C	ourses used to fi	uffill track requirements may not be used as elective courses.)
	7400-210	Clothing Communication	•
	7400.219	Consumer Education	3
	/400:301	Of	3
	7400:302	Consumer Services	3
		or	
	7400:303	Children as Consumers	3
	7400:305	Advanced Construction and Tailoring	3

7400:311

7400:423

7400:436

7400:449

7400:485

7400:490

7400:497

Seminar in Fiber Arts

Textile Conservation

Flat Pattern Design

Professional Image Analysis

Seminar in Family and Consumer Sciences

Internship: Family and Consumer Sciences

Workshop in Family and Consumer Sciences

3

3

3 3 3

3

3
Bachelor of Arts in Interior Design

The professional interior designer is qualified by education, experience, and examination to enhance the the function and quality of interior spaces for the purpose of improving the quality of life, increasing productivity, and protecting the health, safety, and welfare of the public. This four-year professional program prepares students for entry-level positions in residential or nonresidential interior design. The program includes understanding and application of the design process; space planning and programming; furniture selection and layout; application of design elements and decorative elements; selection and application of lighting and color; codes, regulations, and barrier-free environments; systems; development of drafting and communications skills; study of the basic and creative arts; the profession; environmental concerns; universal design; and computer applications in interior design. Both lecture and studio course work are included in this program. Affiliation with the American Society of Interior Designers (ASID) is available through membership in the student chapter.

The Bachelor of Arts in Interior Design is FIDER accredited at the professional level. FIDER (Foundation for Interior Design Education Research) promotes excellence in interior design education through research and the accreditation of academic programs that prepare interior designers to create interior environments for improving the quality of human experience. FIDER is a recognized member of the Commission on Recognition of Postsecondary Accreditation (CORPA), is recognized by the U.S. Department of Education (DOE) as a reliable authority on the quality of education in the field of interior design, and is a member of the Association of Specialized and Professional Accreditors (ASPA).

Key to the success of any educational program is its interaction with the professional community. The Interior Design Program has an active Advisory Board with representation from the profession, the industry, and the alumni. The professional members of the Advisory Board are:

Bill Bennett, PE, Bennett Construction Management Dina M. Gruey, MKTG Communcations Mark Wyant, Residential and Commercial Interiors Sylvia Johnson, Director, Hower House Diane Police, Clestra Hauserman Inc. Laura Petit, Joel R. Wolfgang & Associates, Inc. Dawn E. Gainer, AFC Interiors Rosy Harris, Deitrick and Associates Interiors, Inc.

Admission to the Interior Design Program:

Students must meet the College of Fine and Applied Arts Requirements for Admission. Incoming freshmen will be designated as Pre-Interior Design Candidates and will remain in this category until the following requirements have been met:

- Successful completion of the following courses:
- 7100:144 Two-Dimensional Design
- 7100:491 Architectural Presentations I
- 7400:147 Orientation to Professional Studies
- 7400:158 Introduction to Interior Design
- Completion of application to and acceptance by the College of Fine Arts as an Intertior Design Major.

Upon admission into the program, students will sign an Interior Design Contract and must maintain a grade-point average of 2.50 in all courses in the interior design core. The student must take all Interior Design courses in the prescribed sequence and must qualify for and sign a contract with the Interior Design Program before taking any Interior Design courses beginning in the third year of the Interior Design sequence.

Transfer students from non-FIDER accredited interior design programs will be placed as pre-interior design candidates. Transfer students from FIDER accredited programs will be admitted directly into the program if they have an overall gradepoint average of 2.50 and submit an approved portfolio.

Postbaccalaureate students seeking an additional degree must have an overall grade-point average of 2.50 in all previous college-level work and meet with the Director, Interior Design Studies, for an individual evaluation.

Detailed information on admission to this program of study may be obtained by writing directly to: Robert W. Brown, Director, Interior Design Studies, 215 U Schrank Hall South, The University of Aliron, Aliron, OH 44325.

Interior Design Majors are required to follow the program of study as published due to prerequisites and course content sequencing requirements. There is no foreign language requirement.

Interior Design Core Courses

Students are required to take the following Interior Design Core Course and maintain a 2.00 GPA:

maintain a 2.00 GPA:		Credits
2940:250	Architectural Drafting	3
7100:144	Two-Dimensional Design	3
7100:491	Architectural Presentations I	3
7100:492	Architectural Presentations II	3
7400:139	Fashion and Furnishings Industry	3
7400:158	Introduction to Interior Design	3
7400:225	Textiles	3
7400:257	AUTOCAD for Interior Design	3
7400:258	Light in Man-Made Environments	3
7400:259	Family Housing	3
7400:331	Interior Design Theory	3
7400:333	Space Planning and Programming	3
7400:334	Specifications for Interiors I	3
7400:335	Specifications for Interiors II	3
7400:336	Principles and Practices of Design	3
7400:337	Interior Design Contract Documents	3
7400:418	History of Interior Design I	4
7400:419	History of Interior Design II	4
7400:425	Advanced Textiles	3
7400:433	Senior Design Studio I	3
7400:434	Senior Design Studio III	3
7400:435	Decorative Elements in Interior Design	1
7400:458	Senior Design Studio II	3
7400:459	Senior Design Studio IV	3
7400:478	Senior Portfolio Review	1
7400:479	The NCIDQ Examination	1
7400:497	Internship: Family and Consumer Sciences	3
And Interior De	sign Electives (Select 9 credit hours from the following:)	
7100:131	Introduction to Drawing	3
7100:145	Three-Dimensional Design	3
7100:170	Fundamentals of Photography	3
7100:180	Fundamentals of Graphic Design	3
7100:222	Introduction to Sculpture	3
7100:254	Introduction to Ceramics	3
7400:302	Consumers of Services	3
7400:485	Seminars, i.e. Landscape Architecture, Advanced AutoCAD,	3
	Computer Applications, Cultural Studies	

It is recommended that the student take the following courses that satisfy both General Education requirements and Interior Design Requirements;

3230:150	Cultural Anthropology (Social Science)	4
3750:100	Introduction to Psychology (Social Science)	3
7100:210	Visual Arts Awareness (Humanities)	3

Bachelor of Arts (Step-Up Program) with C & T College Marketing and Sales Technology

General Information

In the first two years the student will be advised by faculty in the Community and Technical College. In the last two years, the student will be advised by the Clothing, Textiles, and Interiors faculty in the School of Family and Consumer Sciences, College of Fine and Applied Arts.

Cradite

C&T College Requirements

Bachelor of Arts in Fashion Merchandising Business Option (Step-Up Program) with C & T Marketing and Sales Technology, Fashion Option

 Completion of all requirements for the Associate Degree in Marketing and Sales Technology, Fashion Option, as established by the Community and Technical College, with technical electives taken from courses in the School of Family and Consumer Sciences, College of Fine and Applied Arts.

C&T Require	Credits	
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2420:243	Survey of Finance	3
2420:280	Essentials of Business Law	3
2440:103	Software Fundamentals	2
2520:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
2520:202	Retailing Fundamentals	3
2520:206	Retail Promotion and Advertising	3
2520:210	Consumer Service Fundamentals	2
2520:211	Mathematics of Retail Distribution	3
2520:212	Principles of Sales	3
2540:119	Business English	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
Fashion Opt	tion	
2420:202	Elements of Human Resource Management	3
7400:139	The Fashion and Furnishings Industries	3
7400:219	Clothing Communication	3
7400:221	Evaluation of Apparel and Household Textiles	3
7400.225	Textiles	3

College of Fine and Applied Arts Requirements

Completion of remaining General Education requirements

- Completion of remaining credits in the School of Family and Consumer Sciences curriculum
- Completion of language alternative: 14 hours of specified course work, completed as a part of the requirements for the Associate Degree, will be accepted as language alternatives for the Bachelor's degree.
- The following courses required for the Associate Degree programs will be accepted as language alternative for those students completing both the Associate Degree in Marketing and Sales Technology, Fashion or Retailing Options, and the Bachelors of Arts in Clothing, Textiles and Interiors:

2020:240	Human Relations	3
2420:211	Basic Accounting	3
2440:103	Software Fundamentals	2
2520:206	Retail Promotion and Advertising	3
2520:211	Mathematics and Retail Distribution	3

 Completion of remaining credits in the School of Family and Consumer Sciences curriculum.

7400:123	Fundamentals of Clothing Construction	3
7400:133	Nutrition Fundamentals	3
	or	
7400:141	Food for the Family	3
7400:147	Orientation to Professional Studies	1
7400:201	Courtship, Marriage and the Family	3
	or	
7400:265	Child Development	3
7400:352	Strategic Merchandise Planning	3
7400:362	Family Life Management	3
7400:425	Advanced Textiles	3
7400:427	Global Issues in Textiles and Apparel	3
7400:439	Fashion Analysis	3
7400:447	Senior Seminar: Critical Issues	1
7400:xxx	Fashion Merchandising Track	24-26
	(See B.A. in Fashion Merchandising)	

Bachelor of Arts in Fashion Merchandising, Business Option (Step-Up Program) with C & T Marketing and Sales Technology, Retailing Option

 Completion of all requirements for the Associate Degree in Marketing and Sales Technology, Retailing Option, as established by the Community and Technical College with the addition of two elective hours. Total electives is thus brought to nine which students fulfill by taking three courses selected from a list of suggested Clothing, Textiles, and Interiors courses from the School of Family and Consumer Sciences.

7600:105	Introduction to Public Speaking	3
5540:xxx	Physical Education	1
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:170	Applied Mathematics for Business	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:103	Software Fundamentals and	2
2520:215	Advertising Projects or	2
2520:219	Sales Projects	2
2520:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
2520:202	Retailing Fundamentals	3
2520:206	Retail Promotion and Advertising	3
2520:210	Consumer Service Fundamentals	2
2520:211	Mathematics of Retail Distribution	3
2520:212	Principles of Sales	4
2520:217	Merchandising Projects	. 2
2540:119	Business English	3
7400:139	The Fashion and Furnishings Industries	3
7400:219	Clothing Communication	3
7400:225	Textiles	3
College of Fi	ne and Applied Arts Requirements	
7400:123	Fundamentals of Construction	3
7400:133	Nutrition Fundamentals or	3
7400:141	Food for the Family	3
7400:147	Orientation to Professional Studies	1
7400:201	Courtship, Marriage and Family Relationships or	3
7400:265	Child Development	3
7400:352	Strategic Merchandise Planning	3
7400:362	Family Life Management	3
7400:425	Advanced Textiles	3
7400:427	Global Issues in Textiles and Apparel	3
7400:439	Fashion Analysis	3
7400:447	Senior Seminar: Critical Issues	1
7400:xxx	Fashion Merchandising Track	24-26
	(see B.A. in Fashion Merchandising)	

Bachelor of Science in Dietetics

To become a registered dietitian (RD), a student must complete the academic requirements, complete a 900-hour supervised experience in dietetic practice, obtain appropriate verification, and pass the dietetic registration examination. Only approved or accredited programs like those at The University of Akron are recognized by the American Dietetic Association (ADA).

The University of Akron has three routes to prepare a student for a career in dietetics – the Didactic Program, the Coordinated Program, and a Step-Up Option for students with a two-year degree in Restaurant Management from the Community and Technical College (C & T). The Didactic Program (which is approved by ADA) includes all required course work necessary to apply for a 900-hour supervised experience in dietetic practice through a dietetic internship (DI) or Approved Preprofessional Practice Program (AP4) outside the university. The Coordinated Program (which is accredited by ADA) allows students to complete their required 900 hours of supervised experience along with regular course work during their junior and senior years. The Step-Up Option with C & T allows a student to move into the Didactic Program or apply for the Coordinated Program. Regardless of the option chosen, students must have successfully completed their course work and 900 hours of experience before they are eligible to take the reastration examination.

Only 12 students per year are admitted to the Coordinated Program. Applications are accepted no later than February 1 of each year. Students who wish to apply to the Coordinated Program must have completed, or be currently taking, the prerequisite courses indicated below by an asterisk(*). Some remaining prerequisites may be completed during the summer following application if these courses are offered during a summer session. In addition to completing the required prerequisites, students must have a minimum GPA of 2.50 with a science GPA of 3.0 and have been accepted to the College of Fine and Applied Arts prior to submission of the application. Students must submit three letters of recommendation and successfully complete an interview. Previous work experience or volunteer activity, preferably in the area of food service or nutrition, although not required, is encour-

Students selected for the Coordinated Program will continue their classwork and begin their 900 hours of supervised experience the following fall semester. Students not accepted will continue in the Didactic Program or the Step-Up Option with C & T.

Didactic Program Option

- Family and Consumer Sciences Core (14 credits) Note: 7400:133 Nutrition Fundamentals*[‡] must be taken
- General Education Requirement (43 credits) Credits 3150:110, 111 Introduction to General, Organic, and Biochemistry I** 4 Introduction to General, Organic, and Biochemistry II*‡ 3150:112, 113 4 3250:100 Introduction to Economics* 3 3300:111 English Composition I* 4 English Composition II* 3300 112 3 3400:210 Humanities in the Western Tradition § 4 XXXX:XXXX Humanities elective 3 Humanities elective 3 XXXX:XXX Note: See General Education Program under University College. Humanities electives must be chosen from two different sets. 3400:385-391 World Civilization 2 3400:385-391 World Civilization 2 3450:xxx Mathematics* (per placement test)@ 3 3850:100 Introduction to Sociology* 4 5540:xxx Physical Education 1 7600:105 Introduction to Public Speaking* 3 7600:106 Effective Oral Communication 3 American Dietetic Association Requirements (76-78 credits) 3100:130 Principles of Microbiology** 3 Human Anatomy and Physiology I, Lab*‡ 3100:200.201 4 Human Anatomy and Physiology II, Lab** 3100:202.203 4 3470:260 Basic Statistics 3 or Introductory Statistics I 3470:261 2 Introduction to Psychology*[‡] 3750 100 3 Accounting Concepts and Principles for Business * 6200:201 4 or 2420:211 Basic Accounting I* 3 6500:341 Human Resource Management[‡] 3 6500:480 Introduction to Health-Care Management[‡] 3 7400:245 Food Theory and Application I** з Food Theory and Application II** 7400:246 з 7400:487/587 Sports Nutrition 7400:310 Food Systems Management I[‡] 5 7400:315 Food Systems Management I Clinical[‡] 2 7400:320 Career Decisions in Nutrition Nutrition in Medical Science I[‡] 7400:328 4 7400:400 Nutrition Communication and Education Skills 4 7400:403/503 Advanced Food Preparation 3 Food Systems Management II[‡] 7400:413 3 7400:424 Nutrition in the Life Cycle[‡] 3 7400:426 Human Nutrition[‡] 5 7400:428 Nutrition in Medical Science II[‡] 5 7400:480 Community Nutrition I[‡] 3 7400:482 Community Nutrition II[‡] 3 7400:489/589 Professional Preparation for Dietetics Electives (3 hours) **Coordinated Program Option** Family and Consumer Sciences Core (14 credits) Note: 7400:133 Nutrition Fundamentals*[‡] must be taken.

General Educ	ation Requirement (43 credits)	
3150:110, 111	Introduction to General, Organic, and Biochemistry I* [‡]	4
3150:112, 113	Introduction to General, Organic, and Biochemistry II* [‡]	4
3250:100	Introduction to Economics*	3
3300:111	English Composition I*	4
3300:112	English Composition II*	3
3400:210	Humanities in the Western Tradition I	4
XXXX:XXXX	Humanities elective	3
XXXX:XXX	Humanities elective Note: See General Education Program under University College. Humanities electives must be chosen from two different sets.	3
3400:385-391	World Civilization	2
3400:385-391	World Civilization	2

Students who wish to apply for the Coordinated Program must have completed, or be currently taking, all of the prerequisite courses indicated by an asterisk (*)

O The statistics course required for the major will fulfill this requirement.

In order to earn a Plan V Verification Statement, students graduating from any of the three options leading to a B.S. in Dietetics must obtain a grade of "C" or better in this course. ±

3450:xxx Mathematics* (per placement test) 3 Introduction to Sociology* 3850:100 4 5540:xxx Physical Education 1 7600:105 Introduction to Public Speaking* 3 7600:106 Effective Oral Communication 3 American Dietetic Association Requirements (79-80 credits) Principles of Microbiology** з 3100:130 Human Anatomy and Physiology I, Lab** 3100:200, 201 4 Human Anatomy and Physiology II, Lab*‡ 3100:202.203 4 3470:260 Basic Statistics 3 or 3470:261 2 Introductory Statistics | Introduction to Psychology** 3750:100 3 6200:201 Accounting Concepts and Principles for Business' 4 or 2420:211 Basic Accounting I 3 6500:341 Human Resource Management[‡] 3 6500:480 Introduction to Health-Care Management[‡] з 7400:245 Food Theory and Application I** з Food Theory and Application II** 7400:246 з 7400:310 Food Systems Management I[‡] 5 7400:315 Food Systems Management I Clinical[‡] 2 7400:320 Career Decisions in Nutrition 7400:328 Nutrition in Medical Science I[‡] Nutrition in Medical Science I Clinical[‡] 7400:329 3 7400:400 Nutrition Communication and Education Skills 7400:403/503 Advanced Food Preparation 3 Food Systems Management II[‡] 7400:413 7400:414 Food Systems Management II Clinical[‡] Nutrition in the Life Cycle[‡] 7400:424 3 7400:426 Human Nutrition[‡] 5 7400:428 Nutrition in Medical Science II[‡] 5 7400:429 Nutrition in Medical Science II Clinical[‡] 3 7400:480 Community Nutrition I[‡] 3 7400:481 Community Nutrition I Clinical[‡] 1 7400:482 Community Nutrition II[‡] 3 7400:483 Community Nutrition II Clinical[‡] Staff Relief: Dietetics 7400:486 Electives (5 hours) Step-Up Option with C & T (Restaurant Management) 2020:121 English Technical Report Writing 2020:222 3 2040.247 Survey of Basic Economics 3 2280:120 Safety and Sanitation 2 2280.121 Fundamentals of Food Preparation I 4 2280:122 Fundamentals of Food Preparation II 4 2280:123 Meat Technology 2 2280:135 Menu Planning and Purchasing 3 2280:232 Dining Room Service and Training 3 2280:233 Restaurant Operation and Management Δ 2280:237 Internship 2280:238 **Cost Control Procedures** 2280:240 2 2 2 2

Credits

2200.240	Systems Management and resource	3
2280:243	Food Equipment and Plant Operations	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	2
	or	
2540:263	Business Communications	3
2420:280	Essentials of Business Law	3
2520:103	Principles of Advertising	3
2540:119	Business English	3
3100:130	Principles of Microbiology [‡]	3
3100:200, 201	Human Anatomy and Physiology I, Lab* [‡]	4
3100:202, 203	Human Anatomy and Physiology II, Lab* [‡]	4
3150:110, 111	Introduction to General, Organic & Biochemistry I, Lab [‡]	4
3150:12, 113	Introduction to General, Organic & Biochemistry II, Lab [‡]	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I	4
XXXX:XXXX	Humanities elective	3
XXXXXXXXX	Humanities elective Note: See General Education Program under University College. Humanities electives must be chosen from two different sets.	3
3400:385-391	World Civilization	2
3450:145	College Algebra	4

Students who wish to apply for the Coordinated Program must have completed, or be currently taking, all of the prerequisite courses indicated by an asterisk (*)

In order to earn a Plan V Verification Statement, students graduating from any of the three options leading to a B.S. in Dietetics must obtain a grade of "C" or better in this course.

3470:260	Basic Statistics or	3
3470:261	Introductory Statistics I	2
3750:100	Introduction to Psychology [‡]	3
3850:100	Introduction to Sociology	4
5540:xxx	Physical Education	1
6500:480	Introduction to Health Care Management [‡]	3
7400:xxx	Clothing Communication, Textiles or Housing option	3
7400:133	Nutrition Fundamentals [‡]	з
7400:147	Orientation to Professional Studies in Family and Consumer Sciences and Family Ecology	1
7400:201	Courtship, Marriage, and Family Relationships or	2
7400:265	Child Development	3
7400:301	Consumer Education	3
7400:328	Nutrition in Medical Science I [‡]	4
7400:362	Family Life Management	3
7400:400	Nutrition Communication and Education Skills	4
7400:413	Food Systems Management II [‡]	3
7400:420	Experimental Foods	3
	or	
7400:421	Special Problems in Family and Consumer Sciences	2
7400:421	Special Problems in Family and Consumer Sciences	3
7400:424	Nutrition in Life Cycle [‡]	3
7400:426	Human Nutrition [‡]	5
7400:428	Nutrition in Medical Science II ⁺	5
7400:447	Critical Issues in Family and Consumer Sciences	1
7400:480	Community Nutrition I	3
7400:482	Community Nutrition II	3
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	3

Credits

Bachelor of Arts in Family and Consumer Sciences Education

Family and Consumer Sciences education majors receive training and preparation to teach in grades 4 through adult. Options are available in vocational work and family life education (consumer homemaking), vocational job training and non-vocational family and consumer science. Vocational job training specializations are available in food production, management and hospitality, early childhood education and care, clothing and interiors, production and services hospitality, facilities, resorts and tourism, and multi-area options. Family and Consumer Sciences education students may elect to graduate from the College of Education or the College of Fine and Applied Arts. Contact the School of Family and Consumer Sciences for copies of these specific programs or to meet with the family and consumer science education adviser. Transcript analysis for these specific vocational options is available upon request.

Secondary Education Requirements for Family and Consumer Sciences Education Teaching Licensure

5100:210	Characteristics of Learners	3
5100:211	Teaching and Learning Strategies	3
5100:410	Professional Issues in Education	3
5300:325	Content Reading in Secondary Schools (30 clinical hours)	3
5300:375	Exploratory Experience in Secondary Education (6 clinical hours, 30 field hours)	1
5300:445	Computer Applications for Secondary Teachers (30 clinical hours)	2
5300:495	Student Teaching	8-11
5500:310	Instructional Design	3
5500:311	Instructional Resources	3
5500:320	Diversity in Learners	3
5500:330	Classroom Management	3

Career and Technical Familyand Consumer Science Co-op Training:Licensure

•	Vocational N	Methods Certification Requirements	
	5200:360	Teaching in the Early Childhood Center	2
	5200:370	Early Childhood Center Laboratory	2
	5400:301	Occupational Employment Experience	4
	5400:351	Consumer Homemaking Methods	4
	5400:451	Family and Consumer Sciences Job Training	3
•	Required		
	7400:123	Fundamentals of Construction	3
	7400:133	Nutrition Fundamentals	3

 Students who wish to apply for the Coordinated Program must have completed, or be currently taking, all of the prerequisite courses indicated by an asterisk (*)

In order to earn a Plan V Verification Statement, students graduating from any of the three options leading to a B.S. in Dietetics must obtain a grade of "C" or better in this course.

		Crea	its
	7400:147	Orientation to Professional Studies in Family and Consumer Sciences and Family Ecology	1
	7400:158	Introduction to Interior Design	3
	7400:159	Family Housing	3
	7400:201	Courtship, Marriage and Family Relationships	3
	7400:225	Textiles	3
	7400:245	Food Theory and Application I and	3
	7400:246	Food Theory and Application II or	3
	7400:141	Food for the Family	3
	7400:265	Child Development	3
•	Select one of t	the following	
	7400:301	Consumer Education	3
	7400:303	Children as Consumers	3
•	Select one of t	the following	
	7400:305	Advanced Construction and Tailoring	3
	7400:449	Flat Pattern Design	3
•	Select one of t	the following	
	2280:121	Fundamentals of Food Preparation I	2
	7400:340	Meal Service	2
•	Required		
	7400:362	Family Life Management	3
	7400:406	Family Financial Management	3
	7400:415	Household Equipment	2
	7400:447	Senior Seminar: Critical Issues in Professional Development	1
	7400:450	Demonstration Techniques	2
	7400:485	Seminar in Family and Consumer Sciences (taken during Student Teaching	01

Senior Honors Program

Senior honors project in family and consumer sciences and family ecology is one to three credits per semester and may be repeated for a total of six credits. Prerequisite: Senior standing in the Honors Program and approval of honors project by faculty preceptor.

7500: Music

Students wishing to major in music must complete the standard undergraduate application for admission and return it to the Office of Admissions. A student cannot be formally admitted to the School of Music until admitted to the University. To be accepted as a music major, both freshmen and transfer students must successfully complete an audition on their major applied instrument and be evaluated in the knowledge of rudimentary theory, ear training, and keyboard skills. Prospective students should contact the School of Music for information on specialized programs, as well as dates and times for theory evaluations.

A student entering the The University of Akron Fall 1992 or thereafter who is majoring in music is required to earn a grade of "C-" or better in all music courses required in the degree program. A student receiving a grade below "C-" in a required music course must repeat the course.

Changing Major Instruments

A student may later change his declared major instrument after being admitted to the School of Music, but must then audition and satisfy all requirements for the new area as an entering student.

Applied Music Requirements

 Studio Study (Private Lessons) - Skill in at least one major area of performance must be progressively developed to the highest level appropriate to the student's major. All students majoring in music are required to enroll in applied music on their declared major instrument every semester.

A performance major in the Bachelor of Music program must enroll for four credits in applied music each semester which equates to one-hour lesson or two half-hour lessons each week. All other students enroll for two credits in applied music on their declared major instrument each semester which equates to a half-hour lesson each week.

Because of the tutorial nature of applied music study, there is an additional fee for applied music registration beyond the normal credit-hour tuition and general service fee. The offering of applied music instruction is dependent upon the availability of instructors. Although students may request study with a given instructor, the audition does not guarantee study with a particular member of the faculty. The priority for assignment is as follows: 1) collegiate music majors; 2) music minors; 3) non-music majors who are members of University performing ensembles; 4) pre-college students in the high school/college program of the School of Music; and, 5) all others.

Students will not be eligible for applied music study 1) if they fail to pass the entrance audition; 2) if a particular instructor's studio is full; 3) if the quality of work demonstrated is judged unacceptable by the applied instructor; or 4) if faculty in the student's applied area conclude on the basis of a jury that a continuation of applied study is not merited. Students in the studio are expected to exhibit a mature attitude and productive behavior.

Levels of Applied Music Study

 The study of applied music is divided into seven course levels. These conform to levels of proficiency and the requirements of the various degree programs.

Entrance to applied music is by audition. Advancement in level is by jury examination only.

7520:000 Level for elective credit in non-music programs, pre-college adults, preparatory program enrollment, and for correcting deficiencies before permission is granted to enroll at the 100 level. Credits in applied music at this level cannot be counted toward any degree requirements in music.

Music majors may apply a maximum of eight credits from any of the following levels to their degree program. A maximum of 32 credits may be counted toward degree requirements.

7520:100Freshman level7520:200Sophomore level7520:300Junior level7520:400Senior level

Minimum Performance Levels Required by Degree Program

- Bachelor of Music in Performance Major Thirty-two credits and completion of the 400 level in the primary performance area. A junior recital is required at the 300 level. A full senior recital is also required.
- Bachelor of Music in Theory/Composition Major Eight crédits in a performance area and completion of the 200 level in piano. A full senior composition recital is required.
- Bachelor of Music in Music Education Sixteen credits and completion of the 200 level in the primary performance area. A half recital is required.
- Bachelor of Music in Jazz Studies Sixteen credits and completion of the 200 level in the primary performance area; additional completion of the 100 level in flute and clarinet for saxophone majors and the 200 level in classical guitar for electric guitar majors. A full senior recital is required.
- Bachelor of Music in History and Literature 16 credits in the primary performance area and completion of the 200 level in that area. A half senior recital is required.

Jury System in Applied Music

 A jury examination is the only way in which a student may advance from one course level to another. Each music major may take a jury examination on the declared major instrument in the primary performance area once each year, after two semesters of study, and/or after the minimum number of credits is attained. However, a faculty member of an applied area may require a student to take a jury examination at the end of any semester.

Each applied area is empowered to terminate applied study, to advise a student that further study will not apply to a degree program unless the next jury examination demonstrates capacity to continue. A jury examination may be used by a student studying applied music at the 000 level as an audition to the 100 level.

Applied Repertory of Study

 Each applied music section (brass, composition, guitar, keyboard, percussion, piano, strings, voice, and woodwinds) has a published repertory of study requirements for each of the course levels. These requirements are available from the Applied Area Coordinator, individual applied instructors, and the School of Music office.

Studio Classes

 Each music major is required to attend the weekly 50-minute class taught by his applied instructor. Attendance at studio class is part of the requirement for applied music study, and reflects in the student's grade in applied music. Every student is required to perform in studio class at least once each semester.

Sectional Recitals

 Each applied section holds a sectional recital each week. Attendance by students studying in the section is required. Students who have performed in studio class may sign up to perform on sectional recitals.

Applied Study for Non-music Majors

 Non-music majors may enroll for applied music with the permission of the individual applied instructor or the area coordinator, whichever is appropriate to the area of study. Acceptance for studio study is based upon an audition, usually given the first week of classes. Only students who meet applied studio standards will be accepted for applied instruction.

Recital Attendance Requirements

 Bachelor of Music majors are required to enroll and receive credit for eight semesters of 7500:157(Student Recital). Bachelor of Arts music majors are required to enroll and receive credit for four semesters. Student Recital (7500:157) carries no academic credit and has no fee. Further information on the attendance requirement is available in the School of Music office.

Ensemble Requirement

Enrollment in all ensembles requires permission of the instructor.

 Major Conducted Ensemble Requirement — Students who are music majors must enroll for eight (8) semesters in a major conducted performance ensemble on their declared major instrument. Guitar and keyboard majors should refer to the Memo of Agreement for specific ensemble requirements. Auditions for membership are held each year and occasionally each semester. Students must enroll in the major conducted ensemble appropriate to their declared major each semester, on an academic year basis.

Students pursuing a major in History and Literature, Performance, Theory, Composition, and Music Education must complete a minimum of eight semesters. However, keyboard majors in Music Education may substitute one year of a major choral ensemble in place of a Keyboard Ensemble. Four semesters are required for Jazz Studies majors, music minors, and those pursuing the Bachelor of Arts degree in music. Students who do not complete degree requirements within eight semesters must continue to enroll in a major conducted ensemble each semester until graduation requirements are met.

Major conducted Ensembles include: Concert Choir, Guitar Ensemble, Keyboard Ensemble, Concert Band, Symphonic Band, University Symphony Orchestra, and University Singers.

 Non-major Conducted Ensemble Requirement — Non-major conducted ensembles may be taken in addition to, but not instead of, major conducted ensembles. Jazz Studies majors are required to complete eight credits in jazz ensembles in addition to four semesters of major conducted ensembles.

Non-major conducted Ensembles include: the Akron Symphony Chorus, Brass Choir, Chamber Orchestra, University Band, Instrumental Ensembles, Jazz Ensemble, Jazz Lab Band, Madrigal Singers, Marching Band, New Music Ensemble, Steel Drum Band, Blue and Gold Brass (Basketball Band), and Wind Choir.

 Unconducted Ensembles ---- Unconducted ensembles may be taken in addition to, but not instead of, major conducted ensembles.

Unconducted ensembles include: Brass Ensembles, Jazz Combos, Mixed Ensembles, Percussion Ensembles, String Ensembles, Vocal Ensembles, and Woodwind Ensembles.

Ensemble credit is repeatable

Credits

or

Additional required music courses — 14-15 credits

F

Minimum Proficiency Requirements in Keyboard and Voice

· All music majors must meet minimum proficiencies in keyboard and voice. Keyboard proficiency is met by successfully completing keyboard Harmony I and II and passing a final keyboard examination.

 Core curric 	ulum in music (for all degree programs)	Credits
7500:141	Ear Training/Sight Reading I	1
7500:142	Ear Training/Sight Reading II	1
7500:151	Theory I	3
7500:152	Theory II	3
7500:154	Music Literature I	2
7500:155	Music Literature II	2
7500:241	Ear Training/Sight Reading III	1
7500:242	Ear Training/Sight Reading IV	1
7500:251	Theory III	3
7500:252	Theory IV	3
7500:261	Keyboard Harmony i	2
7500:262	Keyboard Harmony II	2
7500:351	Music History I	3
7500:352	Music History II	3
	Total core credits	30

Bachelor of Arts

- · Total of 131 credits required for degree.
- General Education requirement and 2nd year of a foreign language 56 credits.
- Core Curriculum in music --- 30 credits.
- · Performance courses:

500:157	Student Recital (four semesters)	0
/510:xxx	Music Organization (four semesters in a major conducted ensemble	
	on primary instrument)	4
/520:xxx	Applied Music	8
	(Completion of the 200 level on primary instrument)	

Electives — 33 credits.

The Bachelor of Arts program is intended as a cultural course or as a preparation for graduate study but not as professional preparation for a performance or teaching career.

Bachelor of Music

- Performance (emphasis in accompanying)
- Total of 133 credits required for degree.
- General Education requirement --- 42 credits.
- · Core curriculum in music --- 30 credits.
- · Applied music and performance courses:

7510:114	Keyboard Ensemble (eight semesters in a major conducted ensemble)	8
7520:xxx	Applied Piano (completion of 400 level is required prior to graduation)	32
	Applied Voice	2

- In order to complete this program, students are required to have a reading knowledge of French, German, and Italian. This can be accomplished through 7500:265 and 266.
- Additional required music courses 14-15 credits

7500:325	Research in Music	2
7500:361	Conducting	2
7500:365	Song Literature	2
7500:371	Analytical Techniques	2
7500:451	Introduction to Musicology	2
7500:497	Independent Study (Chamber Music)	2

Electives — 4 credits

· Senior recital (to include works as soloist, accompanist and in chamber ensembles).

Performance (emphasis in brass)

- Total of 132 credits required for degree.
- General Education requirement 42 credits.
- Core curriculum in music 30 credits.
- Applied music and performance courses 40 credits

7500:157	Student Recital (eight semesters)	0
7510:xxx	Music Organization*	8
7520:xxx	Applied Music - primary instrument (completion of the 400 level	
	is required prior to graduation)	32

	7500:361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:372	Techniques for the Analysis of 20th Century Music	2
	7500:454	Orchestration	2
	7500:471	Counterpoint	2
	/500:49/	Independent Study (with approval of applied instructor and adviser)	2
	7500:353	Electronic Music (As an alternative to 7500:452 Composition, or 7500:454 Orchest 7500:471 Counterpoint)	ration
•	Electives 5-6 d	xedits.	
•	Senior recital (full recital required).	
,	erformance (e	emphasis in piano/harpsichord)	
•	Total of 132 c	edits required for degree.	
•	General Educa	ation requirement — 42 credits.	
•	Core curriculu	m in music — 30 credits.	
•	Applied music	and performance courses 40 credits.	
	7500:157	Student Recital (eight semesters)	0
	7510:xxx	Music Organization*	8
	7520:xxx	Applied Music - primary instrument (completion of the 400 level	
		is required prior to graduation)	32
•	Additional req	uired music courses — 14 credits.	
	7500:271	Piano Pedagogy and Literature I	2
	7500:272	Piano Pedagogy and Literature II	2
	7500:325	Research in Music	2
	7500:361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:451	Introduction to Musicology	2
	7500:497	Independent Study (with approval of applied instructor and advisor)	2
•	Electives — 6	credits.	
•	Senior recital	full recital required).	
٥,	erformence (d	mohaeis in strings)	

- Total of 133 credits required for degree.
- General Education requirement --- 42 credits.
- Core curriculum in music 30 credits. ٠
- Applied music and performance courses 40 credits.

7500:157	Student Recital (eight semesters)	0
7510:xxx	Music Organization*	8
7520:xxx	Applied Music - primery instrument (completion of the 400 level	
	is required prior to graduation)	32
Additional r	equired music courses — 15-16 credits	

7500:361	Conducting	2
7500:371	Analytical Techniques	2
7500:372	Techniques for the Analysis of 20th Century Music	2
7500:454	Orchestration	2
7500:463	Repertoire and Pedagogy: String Instruments	3
7500:471	Counterpoint	2
7500:497	Independent Study (with approval of applied instructor and advisor)	2
7500:353	Electronic Music	3
	(As an alternative to 7500:454 Orchestration)	

• Electives - 5-6 credits.

Senior Recital (full recital required) •

Performance (emphasis in voice)

- Total of 144 credits required for degree.
- General Education requirement 42 credits. •
- Core curriculum in music 30 credits.
- Applied music and performance courses 40 credits.

7500:157	Student Recital (eight semesters)	0
7510:xxx	Music Organization*	8
7520:xxx	Applied Music - primary instrument (completion of the 400 level	
	is required prior to graduation)	32

150 The University of Akron 2001-2002

•	Additional requ	uired music courses — 14 credits.	Credits	•	Additional re	equired music courses — 14-15 credits	Credits
		A 1.0 17 1.0			7500:325	Research in Music	2
	/500:3/1	Analytical Techniques	2		7500:361	Conducting	2
	7500:471	Counterpoint	2		7500.371	Anakatical Techniques	2
	7500:361	Conducting	2		7500.371	Orchestration	2
	7500:265	Diction for Singers I	2		7500.434	Orchestation	2
	7500:266	Diction for Singers II	2		7500:471	Counterpoint	2
	7500:365	Song Literature	2		7500:497	Independent Study (with approval of applied instructor and advisor)	2
	7510:108	Opera Workshop	2		7500:353	Electronic Music	3
			-			(As an alternative to 7500:452 Composition or 7500:454 Occhestration or 7500:471 Countermint)	
٠	Foreign Langu	age Requirement — 12 credits		•	Electives .	- 5-6 credite	
	2550-101	Italian		•	LIECTIVES -		
	3550:101	Italian German	4	•	Senior recita	al (full recital required).	
	3520:101	French	4			(omehacia in oznan)	
	Sonior regital (full regital required)		- F	Total of 131	credits required for degree	
					Conorol Edu	votion requirement 42 eredite	
•	Electives 6 cre	odits.		•	General Edu	ucation requirement — 42 credits.	
Р	erformance (e	mphasis in voice/musical theatre)‡		•	Core curricu	ulum in music (7500:262 not required) 28 credits.	
•	Total of 145 cr	edits required for degree.		•	Applied mu	sic and performance courses — 40 credits.	
•	General Educa	ation requirement — 42 credits			7500:157	Student Recital (eight semesters)	0
-	Contrai Educa				7510:xxx	Music Organization*	8
٠	Core curriculu	m in music — 24 credits.			7520 xxx	Applied Music - primary instrument (completion of the 400 level	•
	7500.151	Theory I	3		/520.000	is required prior to graduation)	32
	7500:152	Theory II	3			is required pror to graduation)	92
	7500:154	Music Literature I	2	•	Additional re	equired music courses — 15 credits	
	7500.155		2				
	7500.155	Sector States Circle Constant L. H. H. N.	2		7500:263	Service Playing for Organists (in lieu of 7500:262)	2
	/500:141,2,241,2	Car Iraining/Signt Heading I, II, II, IV	4		7500:361	Conducting	2
	/500:251,2	I neory III, IV	6		7500:371	Analytical Techniques	2
	7500:261	Keyboard Harmony I	2		7500:456	Advanced Conducting: Choral	2
	7500:262	Keyboard Harmony II	2		7500:462	Repertoire and Pedagogy: Organ	3
•	Applied music	and performance courses — 41 credits			7500:471	Counterpoint	2
					7500:497	Independent Study (Choral Arranging)	2
	/500:157	Student Recital (eight semesters)	U		Electives 6	oradita	
	7500:108	Opera vvorksnop (3 semesters)	3	•	Electives 0	ciedits.	
	7510:100	Choral Ensembles (by audition)	2	•	Senior recita	al (full recital required).	
	7520:X24	Applied Voice (completion of 300 level)	32	_	_		
	/520:X25	Applied Hano (completion of 200 level)	4	P	erformance	(emphasis in percussion)	
٠	Additional req	uired music courses — 2 credits.		•	Total of 132	credits required for degree.	
	7500:320	Musical Theatre History and Literature I	2	•	General Stu	idies — 42 credits.	
•	Theatre Core -	- 20 credits		•	Core curricu	ulum in music — 30 credits.	
	7800:145	Movement Training	3		A K d	-i	
	7800.151	Voice and Diction	3	•	Applied mu	sic and performance courses — 40 credits.	
	7900:172	Action I	2		7500:157	Student Recital (eight semesters)	0
	7000.172	Stage Melicup	3		7510:00	Music Organization*	â
	7000.202	Stage Makeup	3		7520:00	Applied Music - primary instrument (completion of the 400 level	v
	7000.321	Musical Theatre Pristory in	2		/520.000	Applied Wasic - philling insudicion (competion of the 400 level	22
	/800:421	Musical Ineatre Production	3			is required prior to graduation	32
	/800:4/5	Acting for Musical Theatre	3	•	Additional re	equired music courses — 14-15 credits	
٠	Dance Core –	- 13 credits			7500:361	Conducting	2
	7900:119	Modemi	2		7500:371	Analytical Techniques	2
	7900:124	Ballet I	2		7500:372	Techniques for the Analysis of 20th Century Music	2
	7900:130	Jazz Dance I	2		7500:432	Teaching and Literature: Percussion Instruments	2
	7900:230	Jazz Dance II	2		7500:454	Orchestration	2
	7900:144	Tap Dance !	2		7500:455	Advanced Conducting: Instrumental	2
	7920:270	Musical Theatre Dance Techniques	3		7500.405	Advanced Condiciong, Insuginierital	2
	• • • • • •				7500.471		2
•	Senior recital	(full recital required - recital may include a m	haximum of one		/500:353	(As an alternative to 7500:471 Counterpoint)	3
	group or song	s normapproved operettas and musical meatre v	VOIKS).		Flectives	- 5-6 credits	
•	Electives 3	credits.			Senior recit:	al (full recital required)	
P	erformence (e	amphasis in woodwinds)		-	Serier rech		
1	Total of 132 of	redits required for degree		P	erformance	(emphasis in quitar)	
•	1000101102 0	ouits required for degree.		•	Total of 132	credits required for degree.	
•	General Educa	ation requirement — 42 credits.			General Edu	ucation requirement 42 credits	
Core curriculum in music — 30 credits.			Core est				
•	Applied music	and performance courses 40 credits.		•	Core curricu	Jium in music (7500:202 not requirea) 28 creaits.	
	7500:157	Student Recital (eight semesters)	0	•	Applied mu	sic and performance courses — 40 credits.	
	7510:xxx	Music Organization*	8		7500:157	Student Recital (eight semesters)	0
	7520:000	Applied Music - primary instrument (completion of the 400)	evel		7510:xxx	Music Organization*	8
		is required prior to graduation)	32		7520:xxx	Applied Music - primary instrument (completion of the 400 level	-
		-				is required prior to graduation)	32

* Eight semesters in a major conducted ensemble

‡ Passage to the 300 level in the primary applied area is required before graduation

* Eight semesters in a major conducted ensemble

٠	Additional req	uired music courses — 16-17 credits.	Credits
	7500:259	Fretboard Harmony (in lieu of 7500:262)	2
	7500:361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:467	Guitar Pedagogy	2
	7500:468	Guitar Arranging Histopy and Literature of the Guitar and Lute	2
	7500:409	Countempoint	2
	7500:497	Independent Study (with approval of applied instructor and advisor)	2
	7500:353	Electronic Music	3
		(As an alternative to 7500:471 Counterpoint)	
٠	Electives 5-6 of	credits.	
٠	Senior recital	(full recital required).	
ш	istony and 1 it	erature.	
•	Total of 133 c	redits required for degree.	
•	General Educa	ation requirement 42 credits.	
•	Core curriculu	m in music 30 credits.	
٠	Applied music	and performance courses 24 credits.	
	7500:157	Student Recital (eight semesters)	0
	7510:xxx	Music Organization*	8
	7520:xxx	Applied Music primary instrument (completion of the 200 level	16
		is required for graduation)	10
•	Additional mu	sic courses — 14-15 credits.	
	7500:325	Research in Music	2
	7500:361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:451	Introduction to Musicology	2
	7500:455	Advanced Conducting: Instrumental	2
	7500:353	Electronic Music	3
		(As an alternative to 7500:452 Composition)	
•	Special study	electives in music 8 credits.	
	Cracturate lower low	where are available to those undergraduate uncorrelessmen who quali	fu for enerial
	permission to rec	vises are avaliable to those univergraduate upper classifien who quain ister.	iy ior spoolar
	7500:497	Independent Study in Music	1-2
	7500:601	Choral Literature	2
	7500:621	Music History Survey: Middle Ages and Renaissance	2
	7500:622	Music History Survey: Baroque Era Music History Survey: Classical and Romantic Fras	2
	7500:623	Music History Survey: Twentieth Century	2
	Connate area	such as history language or other arts - 8 credits	
	Electives - 6		
		visional agual to the second year of undergraduate s	tuch vin en
•	approved for	eign language (preferably German, French, or Italian) i	s required
	for completion	n of the degree program.	
_			
C	Total of 133 c	redits required for degree	
	General Gene	-42 credits	
-			
•	Core cumcuit	um in music — 30 credits.	
•	Additional mu	isic performance courses — 32 credits.	
	7500:157	Student Recital (eight semesters)	0
	7510:xxx 7520:xxx	Applied Music primary instrumental*	8
	7520:000	Applied Music composition	16
		(completion of the 200 level piano proficiency is required)	
•	Additional mu	usic courses — 23 credits.	
	7500:353	Electronic Music	3
	7500:361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:372	Techniques for Analysis: 20th Century Music	2
	/500:451 7500:454	Introduction to Musicology	2
	7500:455	Advanced Conducting: Instrumental	2
		or	
	7500:456	Advanced Conducting: Choral	2

Ja	zz Studies**	,	
٠	Total of 135 c	redits required for degree.	
٠	General Educa	ation requirement 42 credits.	
•	Core curriculu	m in music — 30 credits.	
•	Additional mu	sic courses — 6-7 credits.	Credits
	7500-361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:454	Orchestration	2
•	Additional jazz	courses 21 credits.	
	7500.210 1	lazz Improvisation	4
	7500:212	The Music Industry: A Survey of Practices and Opportunities	2
	7500:307	Technique of Jazz Ensemble Performance and Direction	2
	7500:308	Jazz History and Literature	3
	7500:309	Jazz Keyboard Techniques	2
	7500:310	Jazz Improvisation III	2
	7500:311	Jazz Improvisation IV	2
	7500:407	Jazz Arranging and Scoring	2
	7500:497	Independent Study (Practicum in Jazz Studies)	2
٠	Applied music	and performance courses — 28 credits.	
	7500:157	Student Recital (eight semesters)	0
	7510:xxx	Music Organization	
		Major Conducted	4
		Jazz Ensembles	8
	7520:xxx	Applied Music primary instrument (completion of 200 level	
		is required for graduation)	16
		Saxophone major must pass flute and clarinet proficiency	
		(completion of 100 level is required)	
		Guitar majors must pass classical guitar proficiency	
		(completion of the 100 level is required)	
•	Electives 7	-8 credits.	
٠	Senior recital.		

Music Education

The music education curriculum strives to bring each of its students to an intellectual understanding of the pedagogical, historical, and theoretical aspects of musical performance while demanding the highest levels of technical and artistic development in the teaching and performing of music.

In view of the heavy educational requirements, students may be required to attend eight semesters plus one or two summer terms in order to complete the degree within a four-year period.

- General Education requirement 42 credits.
- Core curriculum in music 30 credits.
- Professional Education (Including Student Teaching, 5300:495 and Student Teaching Colloquium, 7500:492) - 24 credits.
- · Additional Music Courses by Major: Band-Wind and Percussion Instruments/Applied Music and Performance Courses - 26 credits.

7500:157	Student Recital (eight semesters)	0
7500:457	Senior Recital (one-half recital during 12 months prior to graduatic	xn,
	but not during the semester of student teaching)	0
7510:104	Symphonic Band	8
	or	
7510:125	Concert Band	8
7510:126	Marching Band (as prerequisite for 7500:205)	2
	Two semesters. Instrumental majors excepting bowed string	s.
7520:xxx	Applied Music primary instrumental (completion of the 300 level	
	is required prior to student teaching)	16
Minimum key	board and conducting proficiencies must be attained before assignme	nt to student
teaching.	-	
Additional	Required Music Courses - 27 credits	
7500:205	Marching band Organization and Technique	2
7500:254	String Instrument Techniques	2
7500:276	Trumpet and French Horn Methods	1
7500:277	Clarinet and Saxophone Methods@	1
7500:297	Introduction to Music Education	2
7500:298	Technologies of Music Education	2
7500:307	Technique of Jazz Ensemble Performance and Direction	2
7500:340	Teaching General Music	2
7500:345	Low Brass Methods@	1
7500:346	Flute and Double Reed Methods@	1
7500:361	Conducting	2
	-	

7500:497

Ø Methods classes must be taken in sequence.

2-4

Eight semesters in a major conducted ensemble

· Senior recital of original composition.

Independent Study of Music

Electives — 8 credits.

^{**} Acceptance in the Jazz Program is by permission of the coordinator of Jazz Studies.

		Creats
7500:442	Instrumental Methods@	2
7500:443	Instrumental Practicum@	2
7500:454	Orchestration	2
7500:455	Advanced Conducting: Instrumental	2
7500:458	Percussion Methods	1

 Orchestra - Violin, Viola, Cello, String Bass/Applied Music and Performance Courses - 24 credits

7500:157	Student Recital (eight semesters)	0
7500:457	Senior Recital (one-half recital during 12 months prior to graduation,	
	but not during the semester of student teaching)	0
7510:103	Symphony Orchestra	8
7520:xxx	Applied Music - primary instrument	16

Additional Music Courses - 23 credits

7500:254	String Instrumental Tech	2
7500:276	Trumpet and French Horn Methods@	1
7500:277	Clarinet and Saxophone Methods@	1
7500:297	Introduction to Music Education	2
7500:298	Technologies of Music Education	2
7500:340	Teaching General Music	2
7500:345	Low Brass Methods@	1
7500:346	Flute and Double Reed Methods@	1
7500:361	Conducting	2
7500:442	Instrumental Methods	2
7500:443	Instrumental Practicum	2
7500:454	Orchestration	2
7500:455	Advanced Conducting: Instrumental	2
7500:458	Percussion Methods@	1

 Choral/General Music - Voice, Keyboard, or Guitar/Applied Music and Performances Courses - 24 credits

7500:157	Student Recital (eight semesters)	0
7500:457	Senior Recital (one-half recital during 12 months prior to graduation,	
	but not during the semester of student teaching)	0
7510:120	Concert Choir	
	or	
7510:121	University Singers	8
7520000	Applied Music - primary instrument	16

Additional Required Music Courses - 24 credits

Vocal Majors:		
7520:022	Applied Classical Guitar	2
7520:025	Applied Piano	2
Keyboard Major	x .	
7520:022	Applied Classical Guitar	2
7520:024	Applied Voice	2
Guitar Majors:		
7520:024	Applied Voice	2
7520:025	Applied Piano	2
7500:265	Diction for Singers I	
7500:297	Introduction to Music Education	2
7500:298	Technologies of Music Education	2
7500:339	Music in Early Childhood	2
7500:340	Teaching General Music	2
7500:341	JH/MS Choral Methods	2
7500:344	Secondary Choral Music Methods	2
7500:361	Conducting	2
7500:363	Intermediate Conducting:Choral	2
7500:442	Instrumental Methods	2
7500:456	Advanced Conducting: Choral *	2

Before taking any of the upper level music courses (300 and up) the student must be accepted into the Music Education Program. For acceptance into the Music Education Program, the student must (a) successfully complete all of the above course work for the first and second years with a grade of C or better in all music course work, (b) have a cumulative grade point average of 2.5 or higher, (c) have a score of 11 or higher on a scale of 15 from the student's applied teacher, major conducted ensemble director, music courdinator, (d) pass the music theory IV professor and the undergraduate music coordinator, (d) pass the music education jury and (e) jury to the 200 level on her/his applied instrument.

- One-half recital during 12 months prior to graduation but not during the semester of student teaching except with special permission of Area Coordinator.
- Must be enrolled in at least one major conducted ensemble for four years (eight semesters).
- Jurying to the 300 level on applied instrument is required prior to student teaching.

7600: Communication

Requirements for transferring into the School of Communication

Completion of 7600:102, 7600:115, 3300:111 or 2020:121, 3300:121 and 7600:105 or 7600:106 with grade of C or better in each course and completion of the General Education math requirement is required to transfer into the school as a major or to enroll in 300-400 level courses in the School of Communication. Courses satisfying the School of Communication math requirement include 3450:145 (College Algebra), 3450:135 (Math For Liberal Arts), 3450:141 (Algebra with Business Applications), 3470:260 (Basic Statistics), 3470:261 & 262 (Introduction to Statistics I & II) or their equivalents.

Bachelor of Arts

- General Education requirement and Second Year of a Language 56 credits
- Communication Core (Grade of C or better required for all core courses.)
 Credits

7600:102	Survey of Mass Communication	3
7600:115	Survey of Communication Theory	3
7600:200	Careers in Communication	1
7600:384	Communication Research	_3
		10
Concentrat and public tracks plus	tion in business and organizational communic communication, or mass media communica departmental electives:	cation, interpersona tion as described ir 36

- University electives: 26
- Total: 128

Bachelor of Arts in Business and Organizational Communication

Bachelor of Arts in Interpersonal and Public Communication

Bachelor of Arts in Mass-Media Communication

٠	General Education requirement and "tag" degree course work	56
٠	Communication Core	10
•	Area of specialization as described below plus	
	School of Communication electives	36
•	University electives	26
•	Total	128

Exit requirement

To graduate with a degree from the School of Communication, a student must attain an overall minimum 2.30 GPA for all courses taken in the School of Communication.

Business and Organizational Communication

- Communication Core
- · Major: Choice of Organizational Communication or Public Relations track as follows:

10

Public Relations Track:

Major area: (re	equired)	
7600:280	Media Production Techniques	3
7600:300	Newswriting	3
7600:303	Public Relations Writing	3
7600:309	Public Relations Publications	3
7600:403	Public Relations Strategies	3
7600:404	Public Relations Cases	3
Choose nine of	credits from the following list:	
7600:235	Interpersonal Communication	3
7600:252	Persuasion	3
7600:345	Business & Professional Speaking	3
7600:405	Media Copywriting	3
Communicati	on electives: (not used for above requirements)	9
Communication Total		

Methods classes must be taken in sequence.
 Eight semesters in a major conducted ensemble

Organizational Communication Track:

	-		
	Major area: (requ	Credits	
	7600:226	Interviewing	3
	7600:235	Interpersonal Communication	3
	7600:344	Group Decision Making	3
	7600:345	Business & Professional Speaking	3
	7600:435	Communication in Organizations	3
	Choose 12 credit	ts from one of the following list:	
	7600:245	Argumentation	3
	7600:300	Newswriting	3
	7600:252	Persuasion	3
	7600:303	Public Relations Writing	3
	7600:309	Public Relations Publications	3
	7600:325	Intercultural Communication	3
	7600:436	Analyzing Organizational Communication	3
	7600:437	Training Methods in Communication	3
	7600:454	Theory of Group Processes	3
	Communication	Electives: (not used for above requirements)	9
	Communication	Total	46
In	terpersonal a	and Public Communication	
	Required courses	S	
	7600:235	Interpersonal Communication	3
	7600:245	Argumentation	3
	7600:346	Advanced Public Speaking	3
	Select a total of r	nine credits from the following list:	
	7600:225	Listening	1
	7600:226	Interviewing	3
	7600:227	Nonverbal Communication	3
	7600:252	Persuasion	3
	7600:325	Intercultural Communication	3
	7600:344	Group Decision Making	3
	7600:355	Freedom of Speech	3
	And a total of six	credits from the following list:	
	7600:454	Theory of Group Processes	3
	7600:457	Public Speaking in America	3
	7600:470	Analysis of Public Discourse	3
	7600:471	Theories of Rhetoric	3
	Communication	Electives: (not used for above requirements)	12
	Communication	Total	46

Mass Media—Communication*

· Major: Choice of Radio/TV, Media Production, or News Track as follows:

Radio/TV Track:

Required cou	rses (18 credits)	
7600:280	Media Production Techniques	3
7600:300	Newswriting	3
7600:387	Radio/TV Writing	3
7600:396	Radio/TV Programming	3
7600:484	Regulations in Mass Media	3
7600:486	Broadcast Sales and Management	3
And choose to	wo courses (6 credits):	
7600:375	Communication Technology and Change	3
7600:388	History of Broadcasting	3
7600:400	History of Journalism in America	3
7600:408	Women, Minorities and News	3
And choose o	ne course (3 credits):	
7600:270	Voice Training for the Media	3
7600:282	Radio Production	3
7600:283	Studio Production	3
7600:345	Business and Professional Speaking	3
And choose o	ne course (3 credits):	
7600:302	Broadcast Newswriting	3
7600:462	Advanced Media Writing	3
7600:416	New Media Writing	3
Communicatio	on Electives: (not used for above requirements)	6
Communicatio	on Total:	46
Aedia Produ	ction Track:	
Required cour	rses (24 credits):	
7600:280	Media Production Techniques	3
7600:282	Radio Production	3
7600:283	Studio Production	3
7600:300	Newswriting	3
7600:368	Basic Audio and Video Editing	3
7600:387	Radio/TV Writing	3

And choose o	ne course (3 credits):	Credits
7600:270	Voice Training for the Media	3
7600:375	Communication Technology and Change	3
7600:417	New Media Production	3
And choose o	one course (3 credits):	
7600:302	Broadcast Newswriting	3
7600:462	Advanced Media Writing	3
7600:416	New Media Writing	3
Communicati	on Electives: (not used for above requirements)	6
Communicati	on Total:	46
News Track:		
Required New	vs courses	9
7600:300	Newswriting	3
7600:301	Advanced Newswriting	3
7600:308	Feature Writing	3
And choose to	vo courses (6 credits):	
7600:302	Broadcast Newswriting	3
7600:416	New Media Writing	3
7600:420	Magazine Writing	3
And choose th	nree courses (9 credits):	
7600:282	Radio Production	3
7600:283	Studio Production	3
7600:304	Editing	3
7600:417	New Media Production	3
7600:425	Commercial Electronic Publishing	3
And choose ty	vo courses (6 credits):	
7600:400	History of Journalism in America	3
7600:408	Women, Minorities and News	3
7600:410	Journalism Management	3
7600:484	Mass Media Regulations	3
And:		
Communicatio	on Electives: (not used for above requirements)	6
Communicatio	on Total	46

Bachelor of Arts (Step-Up Program) with C&T College

The School of Communication will accept any C&T degree in a Step-Up program with any Communication major for a BAT degree. Students would be required to complete any remaining General Education course requirements, based on a General Education Evaluation from University College. The student's Associate Degree would fulfill his/her Tag course work requirement. Students would need to complete all other communica-tion requirements for their major listed in the Undergraduate Bulletin.

Nonlinear Video Editing

Single Camera Production

7600:468

7600:472

.

7700: Speech-Language Pathology and Audiology

Bachelor of Arts (Clinical or Non-Clinical Option)* **Bachelor of Arts in Speech-Language Pathology** (Clinical or Non-Clinical Option)*

Program Description

The School of Speech-Language Pathology and Audiology offers an undergraduate (pre-professional) and graduate program of academic and clinical training in speech-language pathology and audiology. Audiologists are responsible for the non-medical management of hearing loss including testing hearing, selecting and working with hearing aids, counselling individuals concerning hearing loss, providing auditory rehabilitation and making noise measurements. A speech-language pathologist works with children and adults who have problems with communication. A clinician first determines the presence of a problem, then designs a plan for treatment. The speech-language pathologist's therapeutic goal is to help individuals communicate more effectively.

Course work focuses on the evaluation and treatment of the many disordered communication processes. Students who complete 7700:250, 321, 330 with an average of 3.0 or better and who have at least a 3.0 overall grade point average may elect the clinical option which requires completion of 7700:350, 351 and 451. Students wishing to study this field without clinical experience at the undergraduate level may pursue a non-clinical curricular option. Decisions regarding degree options and graduate study should be made only after consultation with departmental undergraduate coordinator. A master's degree is required for employment as a speech-language pathologist or audiologist.

Typical work settings for M.A. level speech-language pathologists and audiologists include: schools, hospitals, clinics, private practice, physicians' offices, hearing aid dealerships, and universities. For employment in school settings, individuals must be certified by the department of education of the state in which they will be working. Since more than 65 percent of practicing speech-language pathologists work in public school settings, it is recommended that undergraduate students who are interested in pursuing careers in the communicative disorders professions, complete the requirements for educational certification, except for student teaching, which can be taken only at the graduate level. These educational requirements can be taken as electives. Each student should consult with an adviser about this option.

Program Requirements:

- Completion of the General Education requirement and the second year of a foreign language for the B.A., or the non-foreign language option for the tagged degree (B.A. in Speech-Language Pathology) 56 credits. Students may count 14 credits of American Sign Language for the foreign language requirement.
- Electives --- 21 credits
- Core in Speech-Language Pathology and Audiology:

			OI Durito
	7700:101	Introduction to American Sign Language	3
	7700:110	Introduction to Disorders of Communication	3
	7700:140	Introduction to Hearing Science	3
	7700:210	Introduction to Clinical Phonetics	4
	7700:211	Introduction to Speech Science	2
	7700:230	Language Science and Acquisition	4
	7700:240	Aural Rehabilitation	4
	7700:241	Principles of Audiometry	3
	7700:250	Observation and Clinical Methods	2
	7700:321	Articulatory and Phonologic Disorders	4
	7700:322	Organic Disorders of Communication	4
	7700:330	Language Disorders	4
	7700:340	Audiologic Evaluation	2
	7700:445	Multi-Cultural Considerations in Audiology and	
		Speech Language Pathology	2
	7700:450	Assessment of Communicative Disorders	3
C	linical Option		
•	Add the follow	ving Clinical Practica to the above requirements.	
	7700:350	Entrance Practicum	3
			-

7700:350	Entrance Practicum		3
7700:351	SLP Screening Practicum		2
7700:451	Audiology Screening Practicum		2

Non-Clinical Option

Students wishing to study this field without clinical experience at the undergraduate level may pursue a non-clinical curricular option. The non clinical option will include the core curriculum and at least four credits in the areas related to communication disorders, selected in consultation with the department undergraduate coordinator.

7750: Social Work

Program Description

The social work major is an accredited undergraduate professional program preparing students for entry level practice positions in social service agencies employing Social Workers. Social Work is concerned with the restoration of human social and emotional functioning, with the provision of services to meet social needs and with the prevention of social dysfunctions. Most Social Workers function in agencies responding to specific social problems.

Elective courses are available in such areas as health, community development, child welfare, mental health or retardation, family service, corrections, etc. Certificate programs in Afro-American Studies and Gerontology (Aging) can be scheduled within the elective framework of the curriculum.

Programs can be designed for the student wishing to prepare specifically for generalist practice in the above-mentioned areas. Students will also be prepared for entry into graduate schools of social work for completion of the Master of Social Work degree.

The Bachelor of Arts degree with a major in social work requires completion of two years of a foreign language (Spanish is recommended; sign language is accepted). The Bachelor of Arts in Social Work degree does not require a language.

Curricula have been developed (Step-Up program arrangements) so that students, completing the two-year associate degree programs in Community Services Technology (C & T), Social Services Technology (Wayne College), and Human Services Technology (Stark Tech) with social services emphasis programs can complete either the B.A. or B.A./S.W. four-year curriculum in social work with two additional years of full-time course work.

There are Step-Up program arrangements between this program and the Associate in Community Services Technology program offered in the Community and Technical College, as well as the Associate in Social Services Technology program at the Wayne General and Technical College.

The program can be completed by taking courses in the evening, except for the "field work" experience.

The Social Work Program at The University of Akron is fully accredited by the Council on Social Work Education.

Certificate programs can be designed in Afro-American Studies, Life-Span Development: Adulthood and Aging, Gender Identity and Roles.

Students wishing to major in social work must file an application with the College of Fine and Applied Arts. In addition, a separate application packet must be filed with the School of Social Work. A 2.3 grade point average is required for admission to the School. Once admitted, the student should maintain a 2.5 grade point average in social work major courses.

Bachelor of Arts

· Completion of the General Education requirement, 42 credits including.

			Credits
	3100:103	Natural Science Biology/Lab	4
	3850:100	Introduction to Sociology	4
•	Course Prere	quisites for the Social Work major:	
	7750:270	Poverty in the United States	3
	7750:276	Introduction to Social Welfare	4
	7750:427	Human Behavior and Social Environment	3
•	Social Work r	najor:	
	7750:401,2,3,4	Social Work Practice I, II, III, IV	12
	7750:410	Minority Issues in Social Work Practice	3
	7750:421	Introduction to the Field Experience	1
	7750:422	Field Experience Seminar	1
	7750:425	Social Work Ethics	3
	7750:430	Human Behavior and Social Environment	3
	7750:440	Social Work Research I	3
	7750:441	Social Work Research II	· 3
	7750:445	Social Policy Analysis for Social Workers	3
	7750:495	Field Experience: Social Agency (two semesters, four credits each)	8
	7750:4xx	Electives in Social Work	6

· General Electives, including 14 credits in a foreign language.

A total of 19 credits in approved courses in the social and behavioral sciences must be taken in addition to the 10 credits that are required (3250:100, Introduction to Economics; 3700:100, Government and Politics in the United States; 3750:100, Introduction to Psychology). The 19 credits may be chosen from the following suggested disciplines: Anthropology, Economics, History, Political Science, Psychology, and Sociology. Associate degree, Minor, and certificate requirements may satisfy some of the general electives.

Courses in the Department of Biology are required to fulfill the natural sciences requirement (3100:264,265). A.B.A. in Communicative Disorders substitutes a core of courses in psychology and lated disciplines for the foreign languages (see adviser for specific courses).

The General Education requirement, course prerequisites for the social work major, foreign language, and general electives requirements for the Bachelor of Arts degree in social work are the same requirements that students in the following Step-Up programs must complete:

Bachelor of Arts (Step-Up) with C&T

[Community Services Technology (Social Service Emphasis)]

Bachelor of Arts (Step-Up) with Wayne College [Social Services Technology (Social Service Emphasis)]

Cocial bervices rechnology (Social bervice Emplic

Bachelor of Arts (Step-Up) with Stark Tech [Human and Social Services]

Bachelor of Arts/Social Work

• Completion of the General Education requirement, 42 credits including.

			Creats
	3100:103	Natural Science Biology/Lab and	4
	3850:100	Introduction to Sociology	4
٠	Course Prere	quisites for the Social Work major:	
	7750:270	Poverty in the United States	3
	7750:276	Introduction to Social Welfare	4
	7750:427	Human Behavior and Social Environment	3
•	Social Work r	najor:	
	7750:401,2,3,4	Social Work Practice I, II, III, IV	12
	7750:410	Minority Issues in Social Work Practice	3
	7750:421	Introduction to the Field Experience	1
	7750:422	Field Experience Seminar	1
	7750:425	Social Work Ethics	3
	7750:430	Human Behavior and Social Environment	3
	7750:440	Social Work Research I	3
	7750:441	Social Work Research II	3
	7750:445	Social Policy Analysis for Social Workers	3
	7750:495	Field Experience: Social Agency (two semesters, four credits each)	8
	7750:4xx	Electives in Social Work	6

General Electives:

A total of 19 credits in approved courses in the social and behavioral sciences must be taken in addition to the 10 credits that are required (3250:100, Introduction to Economics; 3700:100, Government and Politics in the United States; 3750:100, Introduction to Psychology). The 19 credits may be chosen from the following suggested disciplines: Anthropology, Economics, History, Political Science, Psychology, and Sociology. Associate degree, Minor, and certificate requirements may satisfy some of the general electives.

The General Education requirement, course prerequisites for the social work major, foreign language, and general electives requirements for the Bachelor of Arts in Social Work degree are the same requirements that students in the following Step-Up programs must complete:

Bachelor of Arts/Social Work (Step-Up) with C&T

[Community Services Technology (Social Service Emphasis)] Bachelor of Arts/Social Work (Step-Up) with Wayne College

[Social Services Technology (Social Service Emphasis)]

Bachelor of Arts/Social Work (Step-Up) with Stark Tech [Human and Social Services]

7800: Theatre

Bachelor of Arts

 General Education Requirement, including the second year of a foreign language — 56 credits.

Credits

1

- Theatre 42 credits
- Required Theatre Arts courses:

7800:100	Experiencing Theatre	3		
7800:106	Introduction to Scenic Design	3		
7800:107	Introduction to Stage Costuming	3		
7800:145	Movement Training	3		
7800:151	Voice and Diction	3		
7800:172	Acting	3		
7800:230	History of the Theatre	· 3		
7800:262	Stage Makeup	3		
7800:265	Basic Stagecraft	3		
7800:271	Directing	3		
7800:330	Dramatic Literature I	3		
7800:355	Stage Lighting Design	3		
7800:430	Dramatic Literature II	3		
7800:470	Theatre in Education	3		
Dance Core — 1 credit				

- 7920:471 Senior Seminar
- Required Production/Performance Courses (7810:) --- 6 credits.
- Electives 23 credits.
- Minimum Semester Hours Required 128 credits.
- As an addition to this degree, a student may complete professional education courses through the College of Education to be licensed to teach drama/theatre in Ohio's public schools.
- All candidates for the B.A. must enroll in at least one credit of production laboratory every semester they are in residence. To earn laboratory credit, theatre majors must attend all University mainstage auditions. A maximum of sixteen 7810 credits may count toward requirement for the B.A.

Bachelor of Arts in Theatre Arts

1) Theatre Arts

The concentration is designed to prepare the student for competency – in all areas of theatre – acting/directing, theatre history/oriticism and design/technical theatre in order that the student can acquire the skills to teach theatre, to undertake graduate work in theatre or to undertake professional work in commercial or regional theatre. Consult an adviser.

- General Education Requirement 42 credits.
- Tag Area of Study (with approval from adviser) 14 credits

Theatre 4	42 credits.	
7800:100	Experiencing Theatre	3
7800:106	Introduction to Scenic Design	3
7800:107	Introduction to Stage Costuming	3
7800:145	Movement Training	3
7800:151	Voice and Diction	3
7800:172	Acting I	3
7800:230	History of the Theatre	3
7800:262	Stage Makeup	3
7800:265	Basic Stagecraft	3
7800:271	Directing I	3
7800:330	Dramatic Literature I	3
7800:355	Stage Lighting Design	3
7800:430	Dramatic Literature II	3
7800:470	Theatre in Education	3
Dance Core	- 1 credit	

- 7920:471 Senior Seminar
- Required Production/Performance Courses (7810:) 6 credits.
- Electives 23 credits.
- Minimum Semester Hours Required 128 credits.
- As an addition to this degree, a student may complete professional education courses through the College of Education to be licensed to teach drama/theatre in Ohio's public schools.

(2) Musical Theatre

• General Education requirement — 42 credits.

•	Theatre Core	- 47 credits:	Credits
	7800:100	Experiencing Theatre	3
	7800:107	Introduction to State Costuming	3
	7800:145	Movement Training	3
	7800:151	Voice and Diction	3
	7800:172	Acting	3
	7800:230	History of Theatre	3
	7800:262	Stage Makeup	3
	7800:265	Basic Stagecraft	3
	7800:271	Directing	3
	7800:321	Musical Theatre History II	- 2
	7800:330	Dramatic Literature I	3
	7800:351	Advanced Voice and Movement	3
	7800:373	Acting II	3
	7800:421	Musical Theatre Production	3
	7800:430	Dramatic Literature II	3
	7800:475	Acting for Musical Theatre	3
•	Dance Core -	- 14 credits:	
	7900:119	Modern I	2
	7900:124	Ballet I	2
	7900:130	Jazz Dance i	2
	7900:144	Tap Dance I	2
	7900:230	Jazz Dance II	2
	7920:270	Musical Theatre Dance Technique	3
	7920:471	Senior Seminar	1
•	Music Core -	- 17 credits:	
	7500:101	Intro to Music Theory	2
	7500:141	Ear Training/Sight Reading 1	1
	7500:142	Ear Training/Sight Reading II	1
	7500:320	Music Theatre History and Literature I	2
	7510:108	Opera Workshop	1
	7500:104/105/10	7 Class/Applied Voice (4 semesters)	8
	7520:024	(must include 1 semester of Applied Voice)	
	7520:025	Class/Applied Piano	2

Production/Performance Lab --- 6 credits.

General Electives — 4 credits.

- Minimum Semester Hours Required 130 credits.
- As an addition to this degree, a student may complete professional education courses through the College of Education to be licensed to teach drama/theatre in Ohio's public schools.

7900: Dance

Bachelor of Fine Arts

The B.F.A. dance major is designed for the student who wishes to pursue professional training in dance through an emphasis on ballet technique. The Dance program offers training in technical, performing and choreographic skills, as well as an in-depth knowledge of dance history.

Admission to the program is by audition only:

To be admitted to the BFA degree program in Dance in the School of Dance, Theatre, and Arts Administration, students must successfully pass the Sophomore Jury (7910:200) for their intended program of study. Typically, students should register for the Sophomore Jury after completing two years of study. Students must complete one full year of Ballet VIII and must be enrolled in ballet technique class each semester.*

- General Education requirement 43 credits.
- Required dance courses 84 credits:

•		
7900:115	Dance as an Art Form (Credit by exam available)	2
7920:116,7	Physical Analysis for Dance I, II	4
7920:122, 222	Ballet V, VI*	20
7920:228	Modem V	3
7920:229	Modern VI	3
7920:316,7	Choreography I, II	4
7920:320	Novement Fundamentals	2
7920:321	Rhythmic Analysis for Dance	2
7920:322, 422	Ballet VII, VIII*	20
7920:328	Modem VII	3
7920:329	Modern VIII	3
7920:361	Learning Theory for Dance	2
7920:362	Instructional Strategies for Dance	2
7920:416	Choreography III	2
7920:417	Choreography IV	2
7920:431	Dance History: Prehistory to 1661	2
7920:432	Dance History: 1661 through Diaghilev Era	2
7920:433	Dance History: 20th Century	2
7920:471	Senior Seminar	1
7910:200	Sophomore Jury	0
7910:112	Dance Production Ensemble	1

- Required performance courses (7910) --- 4 credits.
- Electives (with approval of adviser) 7 credits.
- Minimum Semester Hours Required 132 credits.
- As an addition to this degree, a student may complete professional education courses through the College of Education to be licensed to teach drama/theatre in Ohio's public schools.

Bachelor of Arts

The B.A. dance major is designed for the student who wishes to pursue dance training through an emphasis on the four major dance idioms of ballet, modern, jazz and tap dance. The program offers adjunctive course work in choreography, history, physical analysis and pedagogy.

Admission to the degree is by audition only.

To be admitted to the BA degree program in Dance in the School of Dance, Theatre, and Arts Administration, students must successfully pass the Sophomore Jury (7910:200) for their intended program of study. Typically, students should register for the Sophomore Jury after completing two years of study. All students are required to study dance technique every semester they are enrolled and must be promoted from Ballet Technique VI for graduation.

•	General Education	requirement	and foreign	language**	57 credits.
---	-------------------	-------------	-------------	------------	-------------

Dance — 59 credits

٠	Required dance	ce courses:	Credits
	7900:115	Dance as an Art Form (credit by exam available)	2
	7920:116, 7	Physical Analysis for Dance I, II	4
	7920:122, 222	Ballet V, VI	20
	7920:228	Modern V	3
	7920:316, 7	Choreography I, II	4
	7920:320	Movement Fundamentals	2
	7920:321	Rhythmic Analysis for Dance	2
	7920:361	Learning Theory for Dance	2
	7920:362	Instructional Strategies for Dance	2
	7920:471	Senior Seminar	1
٠	Choose one o	f the following:	
	7920:431	Dance History: Prehistory to 1661	2
	7920:432	Dance History: 1661 through Diaghilev Era	2
	7920:433	Dance History: 20th Century	2
٠	Choose a mi	nimum of one from each category as dance elect	tives for a
	minimum of n	ine credits	
C	ategory A		
	7920:229	Modern VI	3
	7920:328	Modern VII	3
	7920:329	Modern VIII	3
C	ategory B		
	7900:351	Jazz Dance III	2
	7900:451	Jazz Dance IV	2
C	ategory C		
	7920:246	Tap Dance III	2
	7920:347	Tap Dance IV	2
٠	Choose one c	ategory D, E, or F for a total of four credits:	
C	ategory D		
	7920:416	Choreography III	2
	7920:417	Choreography IV	2
C	ategory E*		
	7920:431	Dance History: Prehistory to 1661	2
	7920:432	Dance History: 1661 - Diaghilev Era	2

7920:432 Dance History: 1661 - Diaghilev Era 7920:433 Dance History: 20th Century Category F 7920:461 Seminar and Field Experience in Dance Education

7920:462 Professional Issues in Dance Education

- 7910:200 Sophomore Jury (0 credits)
- 7910:112 Dance Production Ensemble (1 credit)
- Required performance courses (7910) 3 credits.
- Electives 15 credits.
- Minimum Semester Hours Required 130 credits.
- As an addition to this degree, a student may complete professional education courses through the College of Education to be licensed to teach drama/theatre in Ohio's public schools.

Musical Theatre Degree — B.F.A. in Dance

The Musical Theatre Degree is designed to meet the expanding needs in the entertainment field. The student receives strong dance technical training supported with the skills of singing and acting.

Admission to the degree is by audition only.

To be admitted to the Musical Theatre Degree-BFA in Dance in the School of Dance, Theatre, and Arts Administration, students must successfully pass the Sophomore Jury (7910:200) for their intended program of study. Typically, students should register for the Sophomore Jury after completing two years of study.

- General Education requirement 43 credits
- Dance Core 62 credits

٠	Required Dan	ice courses:	Credits
	7900:115	Dance as an Art Form	2
	7900:145	Tap Dance II	2
	7900:219	Modern III	2
	7900:220	Modern IV	2
	7900:230	Jazz Dance II	2
	7910:101-112	Dance Ensembles (including Dance Production)*	5
	7920:116	Physical Analysis for Dance I	2
	7920:117	Physical Analysis for Dance II	2
	7920:122	Ballet V (2x)	10
	7920:228	Modern V	3
	7920:246	Tap Dance III	2
	7920:270	Musical Theatre Dance Techniques	3
	7920:316	Choreography I	2
	7920:317	Choreography II	2
	7920:347	Tap Dance IV (two semesters)	4
	7920:351	Jazz Dance III	2
	7920:361	Learning Theory for Dance	2
	7920:416	Choreography III	2
	7920:417	Choreography IV	2
	7920:430	History of Musical Theatre in Dance	2
	7920:433	Dance History: 20th Century Dance	2
	7920:451	Jazz Dance IV (two semesters)	4
	7920:471	Senior Seminar	1
		Total Dance Curriculum	
٠	Music Core -	- 12 credits:	
	7500:107	Class Voice I/Applied Voice (three semesters)	6
	7520:024	(Must include one semester of Applied Voice)	
	7500:104,105	Class/Applied Piano	2
	7520:025		
	7500:141	Ear Training/Sight Reading	1
	7500:142	Ear Training/Sight Reading II	1
	7500:320	Musical Theatre History and Literature I	2
•	Theatre Core	- 15 credits:	
	7800:151	Voice and Diction	3
	7800:172	Acting I	3
	7800:262	Stage Makeup	3
	7800:421	Musical Theatre Production	3
	7800:475	Acting for Musical Theatre	3

Electives — 2 credits.

2

2

2

 As an addition to this degree, a student may complete professional education courses through the College of Education to be licensed to teach drama/theatre in Ohio's public schools.

College of Nursing

Cynthia Flynn Capers, Ph.D., R.N., Dean

- Elaine F. Nichols, Ed.D., R.N., Associate Dean, Academic Affairs Elizabeth S. Kinion, Ed.D., R.N., Director of Professional Practice and Clinical Scholarship
- Judith A. Lewis, Ed.D., R.N., Director of Nursing Education
- N. Margaret Wineman, Ph.D., R.N., Director of Nursing Research and Scholarly Activity

Sherdene A. Simpson, M.Ed., Director of Student Affairs

ACCREDITATION

The Baccalaureate nursing program is approved by the Ohio Board of Nursing. The Baccalaureate and Masters programs are fully accredited by the National League for Nursing Accreditation Commission (NLNAC). NLNAC is a resource of information regarding tuition, fees and length of program and can be contacted at 350 Hudson Street, New York, NY 10014, (888) 669-9656, ext. 153.

MISSION

As an integral part of The University of Akron, the College of Nursing promotes the general mission of the University. The college offers diverse and comprehensive nursing education programs at the undergraduate and graduate levels. The programs of study, based on professional standards, prepare individuals to provide nursing care in a variety of settings. The College of Nursing supports nursing research that contributes to the health and well-being of society. The college is committed to serving culturally, racially, and ethnically diverse populations. Through academic and community collaboration the college promotes excellence in nursing education, research, practice, and service.

GOALS

- Prepare generalist and advanced practice nurses who are eligible for initial licensure and for certification.
- Provide a foundation for lifelong commitment to professional development and scholarship through continuing education and advanced study at the master's and doctoral levels.
- Prepare nurses who are sensitive in caring for diverse populations in a variety of settings.
- Prepare professional practitioners who integrate leadership roles and ethical standards in a continuously changing health care arena and society.

PHILOSOPHY

The College of Nursing faculty believe that the foci of professional nursing are individuals, families and communities.

The individual is seen as a complex whole whose existence involves patterns, dynamic change, transformation and interdependence. The individual interrelates within the environment in biological, psychological, social, spiritual, cultural and other dimensions. The individual is unique and universal. The individual is a thinking, feeling, interacting, evolving, creating, valuing being.

Families are individuals dynamically connected with each other over time in traditional and non-traditional configurations.

Communities are groups of people with one or more common characteristics who are in relationship to one another and may or may not interact.

Health is comparative, dynamic, multidimensional and has personal meaning. It includes disease, nondisease, and quality of life. People have the right to participate in decisions affecting and effecting personal health.

Environment includes all living and nonliving dimensions with which the individual, family and community have interrelationships. The dynamic environmental interrelations define and establish rules for health and modes of action. **Nursing** is an art and a science. The discipline of nursing is concerned with individual, family and community and their responses to health within the context of the changing health care environment. Professional nursing includes the appraisal and the enhancement of health. Personal meanings of health are understood in the nursing situation within the context of familial, societal and cultral meanings. The professional nurse uses knowledge from theories and research in nursing and other disciplines in providing nursing care. The role of the nurse involves the exercise of social, cultural and political responsibilities, including accountability for professional actions, provision of quality nursing care, and community involvement.

Education is an individualized, lifelong process. Learning includes the individual's interrelations with the environment, knowledge and skill acquisition, development of critical thinking and self-awareness. Self-expression enables the student to respond to clients who have unique human values and cultural heritage. Each nursing student brings attitudes, beliefs, values, feelings, knowledge and experiences into the learning environment. These variables influence learning that occurs through continual construction and reconstruction of experiences in relation to environmental influences.

Nursing education at the baccalaureate level synthesizes knowledge from nursing, humanities, and social, cultural, physical and natural sciences to operationalize clinical decision-making. The student is prepared to function as a nurse generalist in a variety of settings. Faculty and students continually seek to refine the commitment to and understand the relationship between theory and practice. Students are encouraged to become self-directed, collaborative, interdependent and independent. These variables are the foundation for lifelong learning and professional development.

Nursing education at the master's level builds upon baccalaureate nursing education and provides foundation for doctoral study. Graduate education prepares advanced practice nurses with expertise in critical thinking and decision making, effective communication, and therapeutic interventions. Through a variety of learning experiences, Master of Science in Nursing students analyze and use the oretical formulations and research findings in advanced practice.

REQUIREMENTS

Admission to Baccalaureate Program

Five classifications of students will be considered for admission to the baccalaureate nursing program: 1) the basic student (entering freshmen), 2) the registered nurse, 3) the licensed practical nurse, 4) the postbaccalaureate student and 5) the transfer student from other colleges and universities. The College of Nursing offers separate sequences which provide both the R.N. and L.P.N. with the opportunity to earn a Baccalaureate Degree. These sequences begin nursing courses in the summer.

A transfer student may receive credit for quality work earned in approved colleges. Transfer students entering The University of Akron from an accredited institution must have all course work applicable to the College of Nursing requirements evaluated in writing by the respective University of Akron departments. A copy of the departmental course approval or denial must be contained in the student's file when the student applies for an intercollegiate transfer. Enrollment of a transfer student is contingent upon availability of University facilities and an assessment of the sufficiency of prior academic work. Transfer course grades will be combined with courses taken at The University of Akron when ranking students for College of Nursing admission.

A registered nurse (RN) who receives preparation in a diploma or associate degree program is evaluated individually. A RN/BSN student is expected to meet the same degree requirements as the basic student and those of The University of Akron.

A student who wishes to be considered for admission to the College of Nursing must meet the following requirements:

- Complete all University College requirements and College of Nursing prerequisites with a grade of "C" or higher by the end of summer term.
- Complete an Intercollegiate Transfer Form with a University College academic adviser during the designated period of the spring semester in the year that the applicant is ready to seek admission.
- Have a minimum 2.50 cumulative college grade-point average.
- All grades of transfer work will be combined with those earned at The University of Akron in the computation of a GPA for admission ranking purposes to the College of Nursing.

Admission Procedures

All applicants will be considered at once and will be selected at the end of each spring semester to start the following fall. All student applicants will be ranked in order from the highest grade-point average (GPA) down until the class is filled. Presently there are 160 students admitted to the basic program. Registered nurse students are not counted with the 160 basic students. Having a GPA of 2.5 will not guarantee admission to the College.

Acceptance of the student into the college is the responsibility of the dean in consultation with the dean of the University College and the Admissions Committee of the College of Nursing. Admission to the program in nursing does not guarantee the student's placement in the nursing courses at the time the student may wish to pursue them. The college reserves the right to approve admission to those individuals whose abilities, attitudes, and character promise satisfactory achievement of the college objectives.

Upon admission to the College, all students must adhere to the following policies and the deadline of July 31:

- · Pay the Liability Insurance Fee included in the Fall tuition invoice.
- If a licensed nurse, show valid Ohio license to Records Coordinator.
- · Complete required immunizations and physical examination.
- Complete CPR certification prior to starting nursing courses. Maintain current CPR certification throughout the program. Failure to maintain current CPR certification will result in removal from clinical courses.
- · Purchase uniforms according to directions supplied upon admission.

Written evidence of completion of these requirements must be submitted to the College of Nursing Records Coordinator prior to July 31.

Notification of Admission

Following completion of Spring semester, all applicants will be notified of admission by mid-June. Notification of admission status will be either full admission, provisional admission, placement on a waiting list, or denial due to the filing of the 160 available spaces. A limited number of students who do not receive full admission will be placed on a waiting list. The waiting list exists through the first week of Fall classes.

Reapplication Process

Applications for the College of Nursing are only effective for the current academic year. A student not admitted from the wait list or denied admission may reapply during the next intercollege transfer period. Students reapplying are again ranked in the applicant group for admission consideration.

Transfer of Nursing Courses for Advanced Placement

Policies

- Students wishing to transfer nursing courses from other baccalaureate nursing
 programs into the College of Nursing at The University of Akron must meet all
 university transfer requirements and College of Nursing admission criteria.
- Transfer applicants must be in good academic standing and eligible to return in the next term to their previous baccalaureate nursing program.
- Students must have completed all prerequisite courses for the curriculum level into which they seek placement or received university transfer credit for prerequisites.
- Transfer credit for baccalaureate nursing courses taken in another NLNAC or CCNE accredited B.S.N. program may be granted after review and approval of supporting materials by the College of Nursing faculty.
- Courses accepted for transfer will determine the student's placement in the appropriate level of the College of Nursing curriculum.
- Nursing courses for the Associate Degree or Diploma program will not be considered for transfer credit into the basic B.S.N. program.
- Transfer credit will not be granted for nursing course work completed more than two years prior to application.
- Transfer students will be admitted to the College of Nursing on a space-available basis.

Procedures

- Contact the College of Nursing, Director of Nursing Education, The University of Akron, Akron, OH 44325-3701, 330-972-7551.
- Submit a letter to the Director of Nursing Education, College of Nursing, signed by the Dean/Director on school letterhead from the previous B.S.N. program verifying good academic standing and eligibility to return the next term. This letter must be received in order to begin review of materials.
- Contact The University of Akron Office of Admissions to initiate general University transfer procedures.
- 4. Submit a sample program of study, transcripts, and course syllabi to the Director of Nursing Education, by April 1 for Fall semester consideration and by November 1 for Spring Semester admission. These materials will be used by the faculty to determine admission and appropriate placement.
- Following faculty review and recommendations, the College of Nursing Admissions Committee will determine admission and placement at its December and May meetings.
- Applicant will receive a letter from the Director of Nursing Education, following the Admissions Committee meeting indicating admission status and, if admitted, the level of placement in the B.S.N. curriculum.

Continuation in the Baccalaureate Program

A student must maintain a grade-point average of 2.30 (C+) or higher on a 4.00 scale in the nursing major to progress and graduate from the College. A student receiving a C- or below in any nursing course (8200) or corequisite course will be required to repeat the course. A student may repeat only one clinical and one non-clinical course during the nursing program. Students may not progress into the next course with an incomplete or failing grade.

Students should refer to their Student Handbooks for the policies and procedures of the College. Handbooks will be distributed to students upon admission to the College. Students should also refer to each course syllabus distributed at the beginning of each semester for course expectations/requirements.

Requirements for Graduation

- · Complete all University requirements as listed in Section 3 of this Bulletin.
- Complete a minimum of 134 semester credits for the degree and earn a minimum of 2.30 grade-point average in the nursing major and a 2.00 grade-point average for all collegiate work attempted at The University of Akron.
- Complete all courses required in the Program of Study for Nursing Students.
- Complete the last 32 credits in the baccalaureate program at The University of Akron.
- Complete all requirements which were in effect at the time of transfer to the College of Nursing.

Basic Baccalaureate Program

Full-time Option

Freshman Year (Prerequisite Courses)

	•	
3300:111,112	English Composition I, II	7
5540:120-190	Physical Education	1
3100:130	Principles of Microbiology	3
3150:110, 111	Introduction to General, Organic and Biochemistry I, Lab	4
3150:112, 113	Introduction to General, Organic and Biochemistry II, Lab	4
3250:100	Introduction to Economics [†]	3
3700:100	Government and Politics in the U.S. [†]	4
3600:120	Introduction to Ethics	3
3750:100	Introduction to Psychology	3

Credits

Introduction to Economics or Government and Politics in the U.S., and either Introduction to Sociology or Cultural Anthropology fulfills the General Education Social Science requirements. Oral Communications fulfills the General Education Communication requirement. Basic Statistics or Introductory Statistics and II fulfills the General Education Mathematics requirement.

Note: Electives, Students may select courses numbered 100 and above as electives. A list of suggested elective courses is available through Academic Advising or the College of Nursing. Electives are not prerequisite for admission to the College.

2950-100	Intraduction to Socialogy [†]	Credits
3650.100	or	4
3230:150	Cultural Anthropology ^T	4
8200:100	Introduction to Nursing	1
	Electives	2
Transfer to th	e College of Nursing	
Sophomor	e Year	
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3470:260	Basic Statistics [†]	3
3470:261.262	or Statistics I, II [†]	. 4
3750:230	Developmental Psychology	4
7600:106	Oral Communications [†]	3
8200:211	Foundations of Nursing Practice I	5
8200:212	Foundations of Nursing Practice II	5
8200:215	Professional Role Development	2
8200:225	Health Assessment	3
Junior Yea	r	
7400:316	Science of Nutrition	4
8200:315	Pathophysiology for Nurses	3
8200:325	Cultural Dimensions in Nursing	2
8200:330	Nursing Pharmacology	3
8200:350	Nursing of Childbearing Families	5
8200:360	Nursing Care of Adults	5
8200:370	Nursing Care of Older Adults	5
8200:380	Mental Health Nursing	5
Senior Yea	ar	
3400:210	Humanities in the Western Tradition I	4
	Humanities Elective	3
	Area Studies/Cultural Diversity Requirement	2
	Area Studies/Cultural Diversity Requirement	2
8200:410	Nursing of Families with Children	5
8200:430	Nursing in Complex/Critical Situations	4
8200:435	Nursing Research	2
8200:440	Nursing of Communities	5
8200:450	Senior Nursing Practicum	5
8200:455	Professional Issues	2
	Total minimum credits for graduation:	134

Part-time Option

Prerequisites:

Students interest	ed in the Part-time Option of the Basic Baccalaureate Program may app	bly for
admission to the	College of Nursing after completing a total of 57 credits as follows:	
3100:130	Principles of Microbiology	3
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3150:110, 111	Introduction to General, Organic and Biochemistry I, Lab	4
3150:112, 113	Introduction to General, Organic and Biochemistry II, Lab	4
3250:100	Introduction to Economics [†]	3
	or	
3700:100	Government and Politics in the U.S. '	4 🏦
3300:111,112	English Composition	7 🖤
3400:210	Humanities in the Western Tradition I	4
3470:260	Basic Statistics ^T	3
0470-061-060	Of International Statistics 1, 11 [†]	
34/0:201,202	Introduction Statistics I, II	4
3600:120	Introduction to Ethics	3
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3850:100	Introduction to Sociology [†]	4
3230:150	Cultural Anthropology [†]	4
5540:120-190	Physical Education	1
7600:106	Effective Oral Communication [†]	4
8200:100	Introduction to Nursing	1
	Electives	2

Sophomo	ore Year	Credits
Fall		
8200:211	Foundations of Nursing Practice I	5
8200:215	Professional Role Development	2
Spring		_
8200:212	Foundations of Nursing Practice II	5
8200:225	Health Assessment	3
Summer		
7400:316	Science of Nutrition	4
8200:325	Cultural Dimensions in Nursing	2
Junior Ye	ar	
Fall		
8200:315	Pathophysiology	3
8200:350	Nursing of Childbearing Families	5
Spring		
8200:330	Nursing Pharmacology	3
8200:360	Nursing Care of Adults	5
Summer	Humanities Elective	3
	Area Studies/Cultural Diversity Requirement	2
Junior/Se	onior Year	
Fall		
8200:370	Nursing Care of Older Adults	5
8200:380	Mental Health Nursing	5
Spring		
8200:410	Nursing of Families with Children	5
8200:440	Nursing of Communities	5
Summer		
8200:435	Nursing Research	2
	Area Studies/Cultural Diversity Requirement	2
Senior Ye	ear	
Falt		
8200:430	Nursing in Complex/Critical Situations	4
Spring		
8200:450	Senior Nursing Practicum	5
8200:455	Professional Issues	2
	Total minimum credits for graduation:	134

R.N./B.S.N. Sequence

(This sequence limited to registered nurse graduates of Associate Degree and Diploma nursing programs.)

Prerequisite Courses

Freshman Year

3300:111,112	English Composition	7
3100:130	Principles of Microbiology	3
3150:110, 111	Introduction to General, Organic and Biochemistry I, Lab	4
3150:112, 113	Introduction to General, Organic and Biochemistry II, Lab	4
3750:xxx	Introduction to Psychology	3
5540:120-190	Physical Education	1
3600:120	Introduction to Ethics	3
3850:100	Introduction to Sociology [†]	4
3850:150	or Cultural Anthropology [†]	4
Sophomore	Year	
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3250:100	Introduction to Economics [†]	3
3700:100	Government and Politics in the U.S. [†]	4
3750:230	Developmental Psychology	4
7600:106	Oral Communication [†]	3
3470:260	Basic Statistics [†]	3
3470:261,262	or Introduction Statistics I, II [†]	4 6-7

[†] Introduction to Economics or Government and Politics in the U.S., and either Introduction to Sociology or Cultural Anthropology fulfills the General Education Social Science requirements. Oral Communications fulfills the General Education Communication requirement. Basic Statistics or Introductory Statistics I and II fulfills the General Education Mathematics requirement.

¹ Introduction to Economics or Government and Politics in the U.S., and either Introduction to Sociology or Cultural Anthropology fulfills the General Education Social Science requirements. Oral Communications fulfills the General Education Communication requirement. Besic Statistics or Introductory Statistics I and II fulfills the General Education Mathematics requirement.

Transfer to the College of Nursing

Summer Sea	sion Start	Credits
8200:336	Concepts of Professional Nursing	4
8200:225	Health Assessment	3
8200:325	Cultural Dimensions in Nursing	3
3400:210	Humanities in the Western Tradition I	4
Fall		
	Area Studies/Cultural Diversity	2
8200:405	Nursing Care of the Healthy Individual [‡]	5
8200:440	Nursing of Communities [‡]	5
8200:436	Nursing Research/RN Only	3
Spring		
•	Humanities Requirement	3-4
	Area Studies/Cultural Diversity Requirement	2
8200:415	Nursing Care of Individuals with Complex Health Problems [‡]	5
8200:446	Professional Nursing Leadership [‡]	5

Note: By-Passed Credit: Upon successful completion of 8200:415 and 446, 34 hours of by-passed credit will be awarded for courses in the basic program. By-pass credit fee charged according to University fee schedule. Total credits for graduation are 134.

LPN/BSN Sequence

Effective for students entering the College of Nursing in 2001.

Prerequisite Courses: Total of 50-54 credits

3100:130	Principles of Microbiology	3
3100:200, 201	Human Anatomy and Physiology I, Lab	4
3100:202, 203	Human Anatomy and Physiology II, Lab	4
3150:110, 111,		
112, 113	Introduction to General, Organic and Biochemistry I, It, Labs	8
3250:100	Introduction to Economics [†]	3
3700:100	Government and Politics in the U.S. [†]	4
3300:111, 112	English Composition I, If	7
3470:260	Basic Statistics	3
3600:120	Introduction to Ethics	3
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3850:100	Introduction to Sociology [†]	4
3230:150	Cultural Anthropology [†]	4
5540:120-190	Physical Education (recommended to be completed prior to College of Nursing admission)	1
7600:106	Effective Oral Communications	3
8200:101	Introduction to Baccalaureate Nursing	1
	Electives	2

Admission to the College of Nursing

Summer session start

Southing		
Advanced Plac	ement testing to qualify for LPN/BSN Sequence	
Summer II		
8200:225	Health Assessment	

Junior Level

Fall		
7400:316	Science of Nutrition	4
8200:315	Pathophysiology for Nurses	3
8200:350	Nursing of the Childbearing Family	5
8200:360	Nursing Care of Adults	_5
		17
Spring		
8200:325	Cultural Dimensions of Nursing	2
8200:330	Nursing Pharmacology	3
8200:370	Nursing Care of Older Adults	5
8200:380	Mental Health Nursing	_5
		15

Senior Level

Fall		Credit
3400:210	Humanities in the Western Tradition I	4
8200:410	Nursing of Families with Children	5
8200:430	Nursing in Complex and Critical Situations	4
8200:435	Nursing Research	2
		15
Spring		
8200:450	Seminar Practicum	5
8200:440	Nursing of Communities	5
8200:455	Professional Issues	2
3400:385-391	World Civilizations	2
X000X:X0X	Humanities elective	$\frac{3}{17}$
	Total Credits for Graduation:	134

LPN/BSN Sequence Policies and Procedures

- · LPNs are admitted once per year at the same time as basic students.
- If the LPN chooses not to complete placement testing during Summer I, he/she begins Fall classes in the basic BSN program.
- The following tests are administered during Summer Session I:
 - NLN Mobility Profile I Books 1 and 2. A fee is charged.
 - Course exams for N212 and N215. Credit by examination fee is charged.
 - Skills testing for N211, N350, N360, N370. No fee is charged.
 - Math Testing for N220. No fee is charged.
 - Further details about advanced placement testing is available from the College and will be provided to students upon admission.
- An LPN must pass all Sophomore Level testing and/or be granted credit for all Sophomore Nursing courses, in order to be admitted to the LPN/BSN Sequence.
- If the LPN has completed the ACCESS to Registered Nursing course offered by a NEMAG-approved school, credit will be given for N101, N215 and N225. (NEMAG stands for Nursing Education Mobility Action Group, a consortium of nursing programs in Northeast Ohio which offer a regionally approved transition course for LPNs entering RN programs.)
- Following successful completion of all testing during Summer Session I and courses in Summer Session II, the LPN/BSN student enters the Junior Level of the BSN program and progresses with all remaining courses to graduation.

Agencies

3

Some of the agencies which provide clinical experiences for the baccalaureate program are: Akron General Medical Center Head Start Center

Akron Health Department	Henry Center for Child Care and Learning	
Arbors at Fairlawn	Homeless Outreach Program	
Arlington House Elderly Services	Manor Care	
Barberton Citizens Hospital	Olsten Kimberly Quality Home Care	
Brecksville Veterans Administration	Pebble Creek Care Center	
Hospital		
Chambrel at Montrose	Portage Path Community Mental Health Center	
Children's Hospital Medical Center	Rockynol Retirement Community	
College of Nursing, Center for Nursing	SUMMA Akron City Hospital	
Community Based Corrections Facility	SUMMA St. Thomas Medical Center	
Community Support Services	Summit County Health District	
Edwin Shaw Hospital	Tri County Home Nurses, Inc.	
First American Home Care	University Center for Child Development	
Haven of Rest	Visiting Nurse Service, Summit County	

1 Introduction to Economics or Government and Politics in the U.S., and either Introduction to Sociology or Cultural Anthropology fulfils the General Education Social Science requirements. Oral Communications fulfills the General Education Communication requirement. Basic Statistics or Introductory Statistics I and II fulfills the General Education Nethermatics requirement.

‡ Courses 8200:405, 415, 440, and 446 are eight weeks in length.

Northeastern Ohio Universities College of Medicine

HISTORY AND PURPOSE OF THE COLLEGE OF MEDICINE

The Northeastern Ohio Universities College of Medicine (NEOUCOM) was created by an act of the 100th General Assembly of Ohio and was officially established as a public institution of higher learning on November 23, 1973. The college is governed by a board of trustees appointed by the boards of trustees of The University of Akron, Kent State University and Youngstown State University. All three universities are accredited by the North Central Association of Colleges and Secondary Schools. The college was first accredited by the Liaison Committee on Medical Education of the Association of American Medical Colleges in May 1981, and in 1989 and 1996 received full re-accreditation from the LCME for a sevenyear period.

ADMISSION: B.S./M.D.

High school seniors and recent high school graduates, having demonstrated appropriate academic competence and motivation toward a career in medicine, will be considered for admission into the B.S./M.D. program. Students who have not attended college after graduation from high school should write to the Office of Admissions, The University of Akron, Akron, OH 44325-2001 for application forms. The deadline for applications is December 15.

ADMISSION: M.D.

Applicants with a traditional college background may be considered by NEOUCOM for admission to the M.D. Program (Phase II). Students should contact the Northeastern Ohio Universities College of Medicine, Rootstown, OH 44272, for further information. Criteria for admission to the M.D. Program include demonstrated proficiency in appropriate course work, scores from the Medical College Admission Test (MCAT) taken at least one year prior to anticipated fall enrollment date, as well as a commitment to the field of medicine and extracurricular and work activities.

THE B.S./M.D. PROGRAM

The curriculum* requires that the student be enrolled for 11 months in each of six academic years. The first two years (Phase I) are spent at The University of Akron. The course work during this period focuses chiefly on studies in the humanities, social sciences, and all basic premedical sciences but will also include orientation to clinical medicine. Progress through Phase I will be based on academic performance and development of personal maturity appropriate to assumption of professional responsibility. The Phase I Academic Review and Promotion Committee, including University and College of Medicine faculty, will assess these factors and will recommend the Phase I student for promotion and formal admission to Phase II. the medical school.

The first year of Phase II is devoted primarily to the basic medical sciences, e.g., anatomy, physiology, microbiology, etc., and will be conducted at the NEOUCOM campus in Rootstown.

In years two, three and four, the student will develop competence in the clinical aspects of medicine through instruction provided principally at one or more of the associated community hospitals.

COST

Normal undergraduate fees will be assessed for Phase I. Fees for Phase II are set by the College of Medicine Board of Trustees and are commensurate with those at publicly supported medical schools elsewhere in this state.

LOCATION

The NEOUCOM campus is located on S.R. #44 in Rootstown just south of the I-76 intersection, across from the Rootstown High School.

^{*} For a description of the requirements for the Bachelor of Science segment of this program, see B.S.M.D. program listed in Section 4 of this Bulletin under Buchtel College of Arts and Sciences Programs of Instruction.

College of Polymer Science and Polymer Engineering

Frank N. Kelly, Ph.D., Dean

Undergraduate Contributions

The College of Polymer Science and Polymer Engineering was formed in 1988 by joining the Department of Polymer Science from the Buchtel College of Arts and Sciences and the Department of Polymer Engineering from the College of Engineering. The College offers both the Master of Science and Doctor of Philosophy graduate degrees in Polymer Science and Polymer Engineering.

There are no undergraduate degree programs in the College; however, the College offers undergraduate elective courses for science and engineering majors as well as one general interest introductory polymer course for all undergraduate university students. Two certificate programs have been developed with the College of Engineering, and these programs are described in this Bulletin under Chemical and Mechanical Engineering (4200 and 4600, respectively).

An undergraduate interdisciplinary program, Mechanical Polymer Engineering, has been organized by the faculties of mechanical and polymer engineering. This new baccalaureate program, leading to a Bachelor of Science in Mechanical Polymer Engineering degree, was initiated in the fall of 1995. The program emphasizes a traditional mechanical engineering background along with eight required polymer engineering courses. In addition, there is a senior design project course that requires polymer engineering. This program is described in the College of Engineering section of this Bulletin under Mechanical Polymer Engineering (4700).

.



Minor Areas of Study

ı

Chemistry

• Total credits required for a minor in chemistry: 19-22.

٠	Core comprised of the following:		Credits
	3150:151	Principles of Chemistry I	3
	3150:152	Principles of Chemistry I Laboratory	1
	3150:153	Principles of Chemistry II	3
	3150:263,4	Organic Chemistry Lecture I, II	6

- An additional six credits from 300/400-level chemistry courses. For example, a
 pre-med, medical technology, or biology student might take 3150:401,2
 Biochemistry (three credits each). An engineering or physics major might
 select 3150:313,4 Physical Chemistry (three credits each). Analytical or instrumental courses might be attractive to others.
- Chemical engineering majors automatically fulfill the requirements for a minor in chemistry.
- Students who intend to minor in chemistry should seek advice from the Chemistry Department about the 300/400-level courses that would be most relevant to their interests.

Classical Languages

 Total credit 	Total credits required for a minor in classics: 21 credits.		
3200:289	Mythology of Ancient Greece	3	
3240:313/14	Archaeology of Greece and Rome or	6	
3200:361,2	Literature of Greece and Rome	6	
3210:303,4	Advanced Greek or	6	
3220:303,4	Advanced Latin	6	
Electives in C	lassics 6		

 It is strongly recommended that a minor in classical languages take at least three credits of 3400:307, 308, 313, 317, 318 Ancient History.

Classical Civilization

٠	Required co	re courses:	
	3200:289	Mythology of Ancient Greece	3
	3200:361,2	Literature of Greece and Rome	6
	3240:313,14	Archaeology of Greece and Rome	6
		Electives in Classics	3
•	And select o	one of the following:	
	3400:307	Ancient Near East	3
	3400:308	Greece	3
	3400:313	Eastern Roman Empire	3
	3400:317	Roman Republic	3
	3400:318	Roman Empire	3
	3400:318	Roman Empire	3

 It is strongly recommended that a minor in classical civilization fulfill the language requirement by taking 3220:121,2,223,4 or 3210:121,2,223,4.

Communication

The minors offered in the School of Communication are designed for non-communication majors only. ٩

Interpersonal and Group Communication

•	Required:		Credits
	7600:115	Survey of communication theory	3
	7600:235	Interpersonal communication	3
	7600:344	Group Decision Making	3
٠	Select 9 cre	dits from among the following (3 credits must be 300/4	00 level)
	7600:226	Interviewing	3
	7600:227	Nonverbal Communication	3
	7600:245	Argumentation	3
	7600:252	Persuasion	3
	7600:325	Intercultural Communication	3
	7600:454	Theory of Group Process	3
	7600:450	Special Topics	3
		(Depends on topic; only with prior approval of School Director)	

Mass Communication

	Required		
	. oqui ou		_
	7600:102	Survey of Mass Communication	3
	7600:388	Broadcast History	
		or	~
	7600:400	History of Journalism in America	3
•	Electives - 12	credits (at least 3 credits at the 300-400 level) selected from	n:
	7600:270	Voice Training for Media	3
	7600:280	Media Production Techniques	3
	7600:282	Radio Production	3
	7600:283	Studio Production	3
	7600:300	Newswriting	3
	7600:301	Advanced Newswriting	3
	7600:302	Broadcast Newswriting	3
	7600:304	Editing	3
	7600:308	Feature Writing	3
	7600:368	Basic Audio and Video Editing	3
	7600:375	Communication Technology & Change	з
	7600:385	American Film History: the beginning to 1945	3
	7600:386	American Film History: 1945 to the present	3
	7600:387	Radio and TV Writing	3
	7600:388	History of Broadcasting	3
	7600:396	Radio/TV Programming	3
	7600:400	History of Journalism in America	3
	7600:408	Women, Minorities and News	3
	7600:410	Journalism Management	3
	7600:420	Magazine Writing	3
	7600:425	Commercial Electronic Publishing	3
	7600:462	Advanced Media Writing	3
	7600:468	Nonlinear Editing	3
	7600:472	Single Camera Production	3
	7600:484	Regulations in Mass Media	3
	7600:486	Broadcast Sales and Management	3

Mass Media Production

 Rec 	quired
-------------------------	--------

7600:280	Media Production Techniques	3
7600:300	Newswriting	3
7600:368	Basic Audio and Video Editing	3

Electives - 9 credits (at least 3 credits at the 300-400 level) selected from:

600:282	Radio Production	3
600:283	Studio Production	3
600:387	Radio & TV Writting	3
600:417	New Media Production	3
600:468	Nonlinear Video Editing	3
600:472	Single Camera Production	3

Media History

٠	Required		Credits
	7600:102	Survey of Mass Communication	3
	7600:388	History of Broadcasting	3
	7600:400	History of Journalism in America	3
٠	Electives - 9	credits selected from the following:	
	7600:385	American Film History to 1945	3
	7600:386	American Film History 1945-present	3
	7600:408	Women, Minorities and News	3
	7600:481	Film as Art	3
	7600:484	Mass Media Regulation	3
	7600:490	Film History: Workshop (may be repeated up to 3 credits)	
N	lews		
•	Required		
	7600:300	Newswriting	3
	7600:301	Advanced Newswriting	3
	7600:304	Editing	3
	7600:308	Feature Writing	3
٠	Electives - 6	S credits selected from the following:	
	7600:302	Broadcast Newswriting	3
	7600:400	History of Journalism in America	3
	7600:408	Women, Minorities and News	3
	7600:416	New Media Writing	3
	7600:420	Magazine Writing	3
	7600:425	Commercial Electronic Publishing	3

Organizational Communication

٠	Required:		
	7600:115	Survey of Communication Theory	3
	7600:435	Communication in Organizations	3
	7600:436	Analyzing Organizational Communication	3
٠	9 credits sel	ected from the following:	
	7600:235	Interpersonal Communication	3
	7600:325	Intercultural Communication	3
	7600:344	Group Decision Making	3
	7600:345	Business and Professional Speaking	3
	7600:437	Training Methods in Communication	3
	7600:454	Theory of Group Process	3
	7600:450	Special Topics	3
		(Depends on topic; only with prior approval of School Director)	

Public Communication

Required: 7600:115 Survey of Communication Theory

• Select 15 credits from among the following (6 credits at 300/400 level):

7600:245	Argumentation	3
7600:252	Persuasion	3
7600:345	Business and Professional Speaking	3
7600:346	Advanced Public Speaking	3
7600:355	Freedom of Speech	3
7600:457	Public Speaking in America	3
7600:470	Analysis of Public Discourse	3
7600:471	Theories of Rhetoric	3
7600:450	Special Topics	3
	(Depends on topic; only with prior approval of School Director)	

Public Relations

٠	Required:		
	7600:115	Survey of Communication Theory	3
	7600:300	Newswriting	3
•	Select 12 c	redits from among the following:	
	7600:303	Public Relations Writing	3
	7600:309	Public Relations Publications	3
	7600:403	Public Relations Strategies	3
	7600:404	Public Relations Cases	3
	7600:450	Special Topics	3
		(Depends on topic; only with prior approval of School Director)	

Community Services Technology

•	Required co	ore courses:	Credits
	2040:240	Human Relations	3
	2260:100	Introduction to Community Services	3
	2260:150	Introduction to Gerontological Services	3
	2260:260	Introduction to Addiction	3
	2260:240	Pharmacology of Psychoactive Drugs	3
	2260:278	Techniques of Community Work	4

Computer Information Systems

Programming Specialist Option

•	Required core	courses:	
	2440:121	Introduction to Logic/Programming	3
	2440:140	Internet Tools	3
	2440:160	JAVA Programming	3
	2440:170	Visual BASIC	3
	2440:180	Database Concepts	3
	2440:xxx	Computer Information Systems Electives	6
•	Electives:		
	2440:145	Operating Systems	3
	2440:210	Client/Server Programming	3
	2440:234	Advanced Business Programming	3
	2440:235	Current Programming Topics	2
	2440:241	Systems Analysis and Design	3
	2440:251	Computer Applications Projects	3
	2440:256	C++ Programming	3
	2440:290	Special Topics	1-3
м	liorocomuter	Specialist Option	
	Required core	opennist open	
•	2440-121	Introduction to Logic/Programming	3
	2440.121	Internet Tools	3
	2440:140		3
	2440:170	Visual DAGIC	3
	2440:175	Microcomputer Application Support	3
	2440:180	Database Concepts	3
	2440:000	Computer Information Systems Electives	3
٠	Electives:		
	2440:145	Operating Systems	3
	2440:210	Client/Server Programming	3
	2440:235	Current Programming Topics	2
	2440:241	Systems Analysis and Design	3
	2240:247	Hardware Support	3
	2440:257	Microcomputer Projects	3
	2440:267	Microcomputer Database Applications	3
	2240:268	Network Concepts	2
	2440:290	Special Topics	1-3

Consumer Marketing

This minor provides the student an opportunity to develop and document an understanding of consumer marketing issues. A total of 18 credit hours are required for this minor, including 12 credit hours of required courses and 6 credit hours selected from a list of electives. To be granted this minor, the student must complete at least 9 credit hours in addition to the requirements for any other major, minor, or certificate that has been earned.

• Required courses --- 12 credits

3

6600:300	Marketing Principles	3
6600:355	Buyer Behavior	3
6600:350	Integrated Marketing Communications	. 3
6600:390	Principles of Supply Chain Management	3
Elective Co	urses — 6 credits	
6600:440	Product and Brand Management	3
6600:450	Strategic Retail Management	3
6600:490	Marketing Strategy	3

Criminal Justice Technology

•	Core courses: 2220:100 2220:102 2220:104	Introduction to Criminal Justice Criminal Law for Police Evidence and Criminal Legal Process	Credits 3 3 3
•	Additional cou	rses for general criminal justice minor:	
	2220:240	Vice and Organized Crime	3
	2220:250	Criminal Case Management	6
	2220:296	Current Topics in Criminal Justice	1-3
•	Additional cou	rses for corrections area of concentration:	
	3850:100	Introduction to Sociology	4
	3850:330	Criminology	3
	3850:431	Corrections	3
	3850:429	Probation & Parole	3
٠	Additional cou	rses for security area of concentration:	
	2220:101	Introduction to Proprietary Safety	4
	2230:104	Fire Investigation Methods	4
	2230:204	Fire Hazards Recognition	3
	2220:290	Special Topics in Security	3

Dance

•	Required core	courses:	
	7900:115	Dance as an Art Form	2
	7900:119*	Modern I	2
	7900:120*	Modern II	2
	7900:124*	Ballet I	2
	7900:125*	Bailet If	2
	7900:224*	Ballet III	3
		or	
	7900:219*	Modem III	2
	7900:130*	Jazz Dance I	2
		or	
	7900:144*	Tap Dance I	2
•	Choose one (t	otal of 2 credits):	
	7920:431	Dance History: Prehistory to 1661	2
	7920:432	Dance History: 1661 through Diaghilev Era	2
	7920:433	Dance History: Twentieth Century	2
•	Choose two (1	total of 4 credits):	
	7900:316	Choreography I	2
	7920:317	Choreography II	2
	7920:320	Movement Fundamentals#	2
	7920:321	Rhythmic Analysis	2
	7920:361	Learning Theory for Dance	2

E-Marketing

This minor provides students with a basic understanding of E-Marketing principles, practices and applications. Students will learn how to integrate this form of marketing into traditional and contemorary business enterprises. A total of 18 credit hours are required for this minor. The student must complete 12 credit hours of required courses and six credit hours of electives. To be granted this minor, the student must take at least nine credit hours in addition to the requirements for any other major, minor or certificate that has been earned.

٠	Required co	ore courses (total of 12 credits):	
	6100:201	Introduction to E-Business	3
	6600:300	Marketing Principles	3
	6600:345	E-Marketing Practices	3
	6600:400	E-Marketing Promotions	3
•	Choose two	o (total of 6 credits):	
	6600:350	Integrated Marketing Communications	3
	6600:355	Buyer Behavior	3
	6600:420	E-Marketing Practicum	3
	6600:460	Marketing Research	3
	6600:490	Marketing Strategy	3

Economics

٠	One of the fo	bllowing:	Credits
	3250:200,201 3250:244	Principles of Economics Introduction to Economics Analysis	6 3
٠	One of the following:		
	3250:400 3250:410	Intermediate Macroeconomics Intermediate Microeconomics	3 3
٠	Electives in E	Economics	9- 12

 All students are encouraged to consult with the Undergraduate Student Advisor in the Economics Department about the best choice of course work. Students are advised to consider taking both 3250:400 Intermediate Macroeconomics and 3250:410 Intermediate Microeconomics. Check bulletin listings or call department about special topics courses (3250:440) offered each semester and summer.

Labor Economics

٠	Required:		
	3250:410	Intermediate Microeconomics	3
٠	One of the fol	lowing:	
	3250:200,201 3250:244	Principles of Economics Introduction to Economic Analysis	6 3
•	Choose at leas	st two of the following:	
	3250:330 3250:333 3250:430 3250:431 3250:432	Labor Problems Labor Economics Labor Market Policy Labor and the Government The Economics and Practice of Collective Bargaining	3 3 3 3 3
•	Electives in E	conomics	(3-6)

NOTE: All students are encouraged to consult with the Undergraduate Student Advisor in the Economics Department about your best choices of course work.

By advisement only.

English

English

Any 18 hours of courses in the English Department (except 111, 112, 250, 251, 252) with at least 6 of those hours at the 300/400 level.

English Literature

Any 18 hours of courses in British literature with at least 6 of those hours at the 300/400 level.

American Literature

Any 18 hours of courses in American literature with at least 6 of those hours at the 300/400 level.

Professional Writing

 Required 	
------------------------------	--

	3300:390,391	Professional Writing I, II (Do not have to be taken in sequence)	Credits 6
•	One from the	following:	
	3300:376	Legal Writing	3
	3300:489	Management Reports	3
	3300:489	Science Writing	3

One departmental linguistics or language course.

Two additional courses from any of the literature, language or writing offerings in the department.

Creative Writing

Two introductory courses in creative writing from the following:

	3300:277	Introduction to Poetry Writing	:
	3300:278	Introduction to Fiction Writing	:
	3300:279	Introduction to Script Writing	:
•	One advanced	course in creative writing from the following:	
	3300:377	Advanced Poetry Writing	:
	3300:378	Advanced Fiction Writing	:
	3300:389	Advanced Script Writing	:

One literature course primarily concerned with modern work.

· Two additional courses from any of the literature or language offerings of the department, which may include a second advanced course in creative writing.

Popular Literature and Film

This minor enables students to understand how mass-produced, popular literature and film reveal underlying cultural assumptions about authority, family responsibility, and gender roles held by the mainstream audience.

- 12 hours of courses in popular literature or film at the 300/400 level in the Department of English.
- 6 hours of courses in any literature or film topics at any level in the Department of English.
- · Students may choose from courses, such as

3300:255	Popular Fiction	3
3300:283	Film Appreciation	3
3300:380	Film Criticism	3
3300:389	Popular Culture	3
3300:389	Stephen King	3
3300:389	Detective Fiction	3
3300:399	Gothic Imagination	3
3300:484	Fantasy	3
3300:489	Science Fiction	3
3300:489	Film and Literature	3
3300:489	Anne Rice & Joyce Carol Oates	3

NOTE: The following courses taken to fulfill specific requirements in the English Major cannot also be used to fulfill the 18 hours requirement in this minor: 3300: 300 Critical Reading and Writing; 3300:301 English Literature I; 3300:315 Shakespeare: Early; 3300:316 Shakespeare: Mature; 3300:341 American Literature I; one course in world or multicultural literature.

Entrepreneurship

This program exposes and prepares students for the various facets of entrepreneurship (starting a business, acquiring a business or franchise, corporate entrepreneurship, family business, or working for a small business). Students will also be exposed to instructors and/or guest speakers who have been successful entrepreneurs.

Total of 18 credits as follows:

•	Required:		Credits
	6300:301	New Venture Creation	3
	6300:330	Financing New Ventures	3
	6300:450	Business Plan Development	3
•	Electives: Cho	ose a minimum of nine credits (Prerequisites must be ob	served)
	6200: 301	Cost Accounting	з
	6200: 430	Taxation I	3
	6200: 431	Taxation II	3
	6200: 440	Auditing	3
	6200: 460	Advanced Managerial Accounting	3
	6300: 360	Entrepreneurial Field Project	3
	6400: 332	Personal Financial Planning	3
	6400: 343	Investments	3
	6400: 390	Real Estate Principles: A Value Approach	3
	6400: 403	Real Estate Finance/Investments	3
	6400: 415	Risk Management & Insurance	3
	6400: 473	Financial Statement Analysis	3
	6400: 475	Commercial & Consumer Credit Management	3
	6500: 310	Business Information Systems	3
	6500: 333	Production & Operations Analysis	3
	6500: 334	Service Operations Management	3
	6500: 341	Human Resource Management	3
	6500: 435	Quality Management Control	3
	6500: 457	International Management	3
	6600: 275	Professional Selling	3
	6600: 350	Integrated Marketing Communication	3
	6600: 390	Principles of Supply Chain Management	3
	6600: 430	Promotional Campaigns	3
	6600: 440	Product and Brand Management	3
	6600: 460	Marketing Research	3
	6600: 475	Business Negotiation	3
	6800: 421	International Business Practices	3

Family and Consumer Sciences

Apparel Design and Construction

7400:123	Fundamentals of Construction	3
7400:225	Textiles	3
7400:305	Advanced Construction & Tailoring	3
7400:311	Seminar in Fiber Arts	3
7400:449	Flat Pattern Design	3
7400:xxx	Elective in Fashion Merchandising Area	3
Fashion		
7400:139	The Fashion and Fumishings Industries	3
7400:219	Clothing Communication	3
7400:221	Evaluation of Apparel and Household Textiles	3
7400:225	Textiles	3
7400:437	Historic Costume or	3
7400:438	History of Fashion	3

3

Family Development

(Prerequisites must be honored.)

7400.000

7400:201	Courtship, Marriage and Family Relationships	-
/400:265	Child Development	
The remaining 12	credits may be selected from the following:	
7400:255	Fatherhood: The Parent Role	;
7400:360	Parent-Child Relations*	;
7400:362	Family Life Management	;
7400:390	Family Relationships in Middle and Later Years	:
7400:401	Family-Life Patterns in Economically Deprived Homes	
7400:404	Adolescence in the Family Context*	;
7400:440	Family Crisis	1
7400:442	Human Sexuality*	:
7400:445	Public Policy and the American Family	;
7400:496	Parenting Education*	:

Elective in Fashion Merchandising Area

Child Development

(Prerequisites	s must be honored.)	
7400:201	Courtship, Marriage and the Family	
7400:265	Child Development	
The remaining	g 12 credits may be selected from the following:	
7400:132	Early Childhood Nutrition	
7400:255	Fatherhood: The Parental Role	
7400:270	Theory and Guidance of Play	
7400:280	Early Childhood Curriculum Methods	
7400:360	Parent-Child Relations*	
7400:401	Family-Life Pattems in Economically Deprived Homes	
7400:404	Adolescence in the Family Context*	
7400:460	Organization and Supervision of Child-Care Centers	
7400:496	Parenting Skills*	

Credits

3

4

3 4

5

3 3

•

Clinical Nutrition

Community Nutrition		
7400:428	Nutrition in Medical Science II	
7400:426	Human Nutrition*	
7400:424	Nutrition in the Life Cycle	
7400:328	Nutrition in Medical Science I	
7400:133	Nutrition Fundamentals	

С

7400:133	Nutrition Fundamentals
7400:424	Nutrition in the Life Cycle
7400:426	Human Nutrition*
7400:480	Community Nutrition I
7400:482	Community Nutrition II
7400:xxx	Elective in Nutrition/Dietetics

Consumer Services Minor

(Prerequisites n	nust be honored.)	
7400:301	Consumer Education	3
7400:302	Consumers of Services	3
7400:303	Children as Consumers	3
7400:362	Family Life Management	3
7400:406	Family Financial Management	3
7400:445	Public Policy and the American Family	3

Food Systems Administration

2280:238	Cost Control Procedures
6500:341	Human Resource Management
7400:133	Nutrition Fundamentals
7400:245	Food Theory and Applications I
7400:246	Food Theory and Applications II
7400:310	Food Systems Management I
7400:315	Food Systems Management I, Clinical
7400:413	Food Systems Management II

Food Science

(A minimum grade of "C" is required in each course)

7400:245	Food Theory and Application I	3
7400:246	Food Theory and Application II	3
7400:420	Experimental Foods	3
7400:470	The Food Industry: Analysis and Field Study	3
7400:475	Analysis of Food	3
Select at least	3 credits from the following courses:	
7400:403	Advanced Food Preparation	3
7400:421	Special Problems in Family and Consumer Sciences	1-3
7400:474	Cultural Dimensions of Food	3
7400:476	Developments in Food Science	3
7400:485	Seminar: Family and Consumer Sciences	3
7400:497	Intemship: Family and Consumer Sciences	3-5

Finance for Business Majors

The Finance Minor for Business Majors provides an opportunity to earn a recognized study in Finance while completing a major in another department of the College of Business Administration.

Required Core Courses (9 credits)

6400:338	Financial Markets and Institutions	3
6400:343	Investments	3
6400:379	Advanced Business Finance	3

 And Three of the Following Courses (9 credits): 		Credits
6400:323	International Business Law	3
6400:325	Business and Society	3
6400:332	Personal Financial Planning	3
6400:390	Real Estate Principles: A Value Approach	3
6400:402	Income Property Appraisal	3
6400:403	Real Estate Finance	3
6400:415	Risk Management and Insurance	3
6400:424	Legal Concepts of Real Estate Law	3
6400:436	Commercial Bank Management	3
6400:447	Security and Portfolio Analysis	3
6400:473	Financial Statement Analysis	3
6400:475	Commercial and Consumer Credit Management	3
6400:481	International Business Finance	3
6400:490	Selected Topics in Finance	3
6400:495	Internship in Finance	1-3

Financial Planning

The 18-credit minor in Financial Planning will permit students to acquire the educational foundation for a career in financial planning and will qualify them to sit for the Certified Financial Planner Certification Examination.

6200:410	Taxation for Financial Planning	3
6400:332	Personal Financial Planning	3
6400:343	Investments	3
6400:371	Business Finance or 6140:370 Introduction to Finance	
	(non-business students only)	3
6400:415	Risk Management and Insurance	3
6400:432	Seminar in Personal Financial Planning	3

Financial Services for Non-Business Majors

The professional opportunities in the financial services areas of banking, insurance, real estate, and financial planning are expanding rapidly. This program provides the non-business major an opportunity to develop career-focused skills in the financial services area.

Required (9	credits)	
6140:331	Personal Finance	3
6140:341	Contemporary Investments	3
6140:370	Introduction to Finance	3
Electives (9	credits)	
6200:410	Taxation for Financial Planning	3
6400:325	Business and Society	3
6400:338	Financial Markets and Institutions	3
6400:390	Real Estate Principles: A Value Approach	3
6400:402	Income Property Appraisal	3
6400:403	Real Estate Finance	3
6400:415	Risk Management and Insurance	3
6400:424	Legal Concepts of Real Estate Law	3
6400:432	Seminar in Financial Planning	3
6400:436	Commercial Bank Management	3
6600:275	Professional Selling	3
	-	

Fire Protection

2230:100	Introduction to Fire Protection	3
2230:102	Fire Safety in Building Design and Construction	3
2230:104	Fire Investigation Methods	4
2230:153	Principles of Fire Protection and Life Safety	3
2230:204	Fire Hazards Recognition	3
2230:205	Fire Detection and Suppression Systems I	3

Geography and Planning

General Geography

3350:305	Maps and Map Reading	3
3350:310	Physical and Environmental Geography	3
3350:320	Economic Geography	3
3350:330	Rural and Urban Settlement	3

· The remaining six credits are to be selected from any geography offerings, except 3350:100.

Planning

Students must complete 19 semester credits of course work as follows:

			Credits
	3350:385	Planning Seminar	1
	3350:433	Practical Approaches to Planning	3
	3350:495	Soil and Water Field Studies	3
•	At least tw	o courses (six credits) from the following:	
	3350:335	Recreation Resource Planning	3
	3350:422	Transportation System Planning	3
	3350:428	Industrial and Commercial Site Location	3
	3350:436	Urban Land Use Analysis	3
•	At least tw	o courses (six credits) from the following:	
	3350:340	Cartography	3
	3350:405	Geographic Information Systems	3
	3350:447	Remote Sensing	3
	3350:483	Spatial Analysis	3
	3350:496	Field Research Methods	з
_			

Cartography

· At least five courses (15 credits) from:

	3350:340	Cartography	:
	3350:405	Geographic Information Systems	3
	3350:442	Thematic Cartography	3
	3350:444	Applications in Cartography and Geographic Information Systems	3
	3350:447	Remote Sensing	3
	3350:448	Advanced Cartography	3
	3350:449	Advanced Remote Sensing	3
•	At least one c	ourse (three credits) from:	
	3350:481	Research Methods in Geography and Planning	З
	3350:483	Spatial Analysis	3
	3350:496	Field Research Methods	3

Geology

- Minimum of 20 credits of departmental courses; 17 of which must be in courses having a laboratory.
- At least six credits must be at the 300/400 level.
- Student should consult with the Director of Undergraduate Studies in the Geology Department for minors.

Global Selling:

Requirements

A total of 18 credit hours are required for this minor. The student must complete 12 credit hours of required courses and 6 credit hours must be selected from a list of electives. To be granted this minor, the student must take at least 9 credit hours in addition to the requirements for any other major, minor, or certificate that has been earned. Students should contact the Director of Undergraduate Studies in Business Administration for information on transfer credit and to request that notation of the minor be included on the student's transcript upon submission of the degree clearance form for the baccalaureate degree.

Program

Required: Comple	te all 12 credits	
6600:275	Professional Selling	3
6600:300	Marketing Principles	3
6600:485	Global Sales Strategy	3
6800:305	International Business	3
Elective: Complete	e any 6 credits	
3250:461	Principles of International Economics	3
6500:457	International Management	3
6600:385	International Marketing	3
6600:475	Business Negotiations	3
6600:480	Sales Management	3
6800:421	International Business Practices	3
7600:325	Intercultural Communications	3

History

3

3 3

3

3

3

3

3

- Twelve of the 18 credits must be at the upper-division level (300/400). A combination of courses in United States and non-United States history is required.
- · A student may work primarily in United States history, European, Medieval, Latin American and the like, provided in both cases there is some combination or distribution between United States and non-United States history.

Hospitality Management

Restaurant Management

		Crouits
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation	4
2280:160	Wine and Beverage Service	3
2280:232	Dining Room Service and Training	3
2280:233	Restaurant Operations and Food Management	4
2280:245	Menu, Purchasing and Cost Control	4

Culinary Arts

2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:122	Fundamentals of Food Preparation II	4
2280:160	Wine and Beverage Service	3
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	3
2280:233	Restaurant Operations and Food Management	4
2280:245	Menu, Purchasing and Cost Control	3
2280:261	Baking and Classical Desserts	3
Hotel/Mo	otel Management	

2280:120	Safety and Sanitation	2
2280:232	Dining Room Service and Training	3
2280:240	System Management and Personnel	3
2280:245	Menu, Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2280:268	Revenue Centers	3
2280:278	Hotel Catering and Marketing	3

International Business

This minor provides students with a basic understanding of international business and its environments. Students in this International Business Minor are eligible to participate in the College of Business Administration's foreign exchange programs. Courses offered through The University of Akron foreign business partner schools may substitute for both electives and one required course. To be granted this minor, the student must take at least 9 credit hours in addition to the requirements for any other major, minor, or certificate that has been earned.

Required: Complete all courses – 12 credits

6600:300	Marketing Principles	3
6600:385	International Marketing	3
6800:305	International Business	3
6800:405	Multinational Corporations	3
Electives: 0	Complete two (2) courses – 6 credits	
3250:450	Comparative Economic Systems	3
3250:461	Principles of International Economics	3
3700:300	Comparative Politics	4
3700:312	Politics of International Trade and Money	3
6400:323	International Business Law	3
6400:481	International Business Finance	3
6500:457	International Management	3
6600:485	Global Sales Strategy	3
6800:421	International Business Practices	3
6800:495	Internship for International Business	1-3
6800:496	Special Topics in International Business	1-3

Management

G	eneral Manage	ement Option	Credits
	6500:301	Management: Principles and Concepts	3
	6500:310	Business Information Systems	3
	6500:330	Principles of Operations Management	3
	6500:341	Human Resource Management	3
	6500:3xx/4xx	Management Electives	6
			Ū
H	uman Kesourd	e Management Option	
	6500:301	Management: Principles and Concepts	3
	6500:310	Business Information Systems	3
	6500:341	Human Resource Management	3
٠	Select THREE	of the following for which you have the prerequisites:	
	6500:302	Organizational Behavior and Leadership Skills	3
	6500:342	Labor Relations	3
	6500:442	Compensation Management	3
	6500:443	Human Resources Selection and Staffing	3
	6500:457	International Management	3
Μ	anagement in	formation Systems Option	
	6500:301	Management: Principles and Concepts	3
	6500:310	Business Information Systems	3
	6500:315	Applications Development for Business Processes	3
	6500:350	Fundamentals of Enterprise Resource Planning	3
_			
•	Select IVVO o	of the following for which you have the prerequisites:	•
	6500:324	Data Management for Information Systems	3
	6500:325	Analysis, Design and Development of Information Systems	3
	6500:330	Principles of Operations Management	3
	6500:341	Human Resource Management	3
	6500:420	Telecommunications for Business	3
	6500:425	Decision Support with Data Warehousing and Data Mining	3
	6500:426	E-Business Infrastructure Management	3
P	roduction and	Operations Management - Option A	
	6500:221	Quantitative Business Analysis I	3
	6500:222	Quantitative Business Analysis II	3
	6500:301	Management: Principles and Concepts	3
	6500:330	Principles of Operations Management	3
	6500:333	Production and Operations Analysis	3
•	Select ONE of	f the following for which you have the prerequisites:	
	6500:334	Service Operations Management	3
	6500:433	Business Operational Planning	3
	6500:434	Production Planning and Control	3
	6500:435	Quality Management and Control	3
P	roduction and	Operations Management - Option B	
	6500-222	Quantitativo Businoss Analysis II	3
	6500.222	Management: Principles and Concepts	3
	6500.301	Business Information Systems	3
	6500.310	Priorines of Operations Management	3
	6500:333	Production and Operations Analysis	3
•	Select ONE o	or the rollowing for which you have the prerequisites:	•
	6500:334	Service Operations Management	5
	6500:433	Business Operational Manning	3
	6500:434	Production Planning and Control	3
	6500:435	Quality Management and Control	3
P	roduction and	Operations Management - Option C	
	6500:301	Management: Principles and Concepts	3
	6500:310	Business Information Systems	3
	6500:330	Principles of Operations Management	3
	6500:333	Production and Operations Analysis	3
•	Select TWO	of the following for which you have the prerequisites:	
	6500:334	Service Operations Management	3
	6500:341	Human Resource Management	3
	6500:433	Business Operational Planning	3
	6500:434	Production Planning and Control	3
	6500:435	Quality Management and Control	3
	6500:457	International Management	3

Marketing and Sales Technology

		Credits
2520:103	Principles of Advertising	3
2520:202	Retailing Fundamentals	3
2520:204	Services Marketing	3
2520:206	Retail Promotion and Advertising	3
2520:212	Principles of Sales	3
2520:254	Sales Management Technology	3

• To be awarded only at the time a student receives a baccalaureate degree.

Mathematics and Computer Science

•	Total credits required for minors are as follows:	
	Mathematics/Applied Mathematics	24-25
	Computer Science	29

Mathematics/Applied Mathematics

Option A (24 credits)

3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
3450:312	Linear Algebra	3
Approved 3	00/400-level mathematical sciences electives (at leas	st six credits in
3450 course	es)	9
Option B (24	I-25 credits)	
3450:215, 216	Concepts of Calculus I, II	8
	or	,
3450:221,2	Analytic Geometry-Calculus I, II	8
3450:312	Linear Algebra	3
3470:461	Applied Statistics	4
	or	
3470:460	Statistical Methods	4
 Approved 3 	00/400-level mathematics or statistics electives	9
08		

 Analytical Geometry-Calculus III (permission requires a grade of at least B in 3450:216) plus 6 credits of approved 300/400-level mathematics or statistics electives.

Computer Science

3450:208	Introduction to Discrete Mathematics	4
3450:221	Analytic Geometry-Calculus	4
	or	
3450:215	Concepts of Calculus I	4
3460:209	Introduction to Computer Science	4
3460:210	Data Structures and Algorithms I	4
3460:316	Data Structures and Algorithms II	- 3
3460:306	Assembly Language Programming	4
Approved 300	0/400-level computer science electives.	6

Military Studies: Aerospace Studies

1500:113	First Year Aerospace Studies	1.5
1500:114	First Year Aerospace Studies	1.5
1500:253	Second Year Aerospace Studies	1.5
1500:254	Second Year Aerospace Studies	1.5
1500:303	Third Year Aerospace Studies	3
1500:304	Third Year Aerospace Studies	3
1500:453	Fourth Year Aerospace Studies	3
1500:454	Fourth Year Aerospace Studies	3

Military Studies: Military Science

		Creans
1600:100	Introduction to Military Science I	2
1600:101	Introduction to Military Science II	2
1600:200	Basic Military Leadership	2
1600:201	Small Unit Operations	2
1600:300	Advanced Leadership I	3
1600:301	Advanced Leadership II	3
1600:400	Military Management I	3
1600:401	Military Management II	3

Modern Languages

French, German, Spanish, or Italian

A minimum of 18 credits is required.

The student must have at least 12 credits beyond the second year excluding courses which are not counted for credit toward a major.

Music

Jazz Studies

7500:210	Jazz Improvisation I	2
7500:211	Jazz Improvisation II	2
7500:212	Music Industry Survey	2
7500:307	Technique of Jazz Ensemble Performance and Direction	2
7500:308	History and Literature of Jazz	3
7500:497	Independent Study in Music	2
7510:115	Jazz Ensemble	. 4
7520000	Applied Jazz Study	8
Music		
7500:151	Theory I	3
7500:152	Theory II	3
7500:154	Music Literature I	2
7500:155	Music Literature II	2
7500:xxx	Music Elective (Selected from any 7500 course at 300 or 400 level)	2
7510:xxx	Music Organization (four semesters in a major conducted ensemble)	4
7520:xxx	Applied Music (This eight-credit requirement must be satisfied in four separate semesters. In order to complete the Minor in Music, the student must successfully jury to the "200" level.)	8

Office Administration

The following courses must be completed with a minimum grade point average of 2.0 overall for the minor to be noted on the student's record.

General Secretarial - 19 credits

2540:281

2440:103	Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:121	Introduction to Office Procedures	3
2540:129	information/Records Management	3
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:281	Editing/Proofreading/Transcription	3
Word Pro	ocessing - 20 credits	
2440:103	Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:270	Business Software Applications	4
2540:271	Desktop Publishing	3

Note: A minor in Office Administration may only be awarded at the time a student receives a baccalaureate degree.

3

Editing/Proofreading/Transcription

Philosophy

Requirements:

- A total of 18 semester credits in philosophy including: (a) at least three semester credits at the introductory level (introduction to philosophy, logic or ethics); and (b) at least six semester credits at the 300/400 level.
- Students may select courses related to their major area of study.

General Philosophy Minor

A total of 18 credits in philosophy including:

• At least three credits at the introductory level:

3600:101	Introduction to Philosophy
	or
3600:120	Introduction to Ethics
	or
3600:170	Introduction to Logic

- At least six credits at the 300/400 level:
- The remaining nine credits are to be selected from any philosophy offerings.

Bioethics Minor

A total of 18 credits in philosophy including:

Required: 12 credits of Philosophy				
3600:120*	Introduction to Ethics	3		
3600:361	Biomedical Ethics	3		
3600:323	Advanced Topics in Ethics	3		
and select one	e of the following			
1880:310	Medicine and the Humanities	3		
3230:457	Medical Anthropology	3		
3600:464	Philosophy of Science	3		
3600:480	Seminar (on a Bioethics topic)	3		
3750:320	Biopsychology	4		
3750:335	Dynamics of Personality	4		
3750:340	Social Psychology	4		
3750:420	Abnormal Psychology	4		
3750:430	Psychological Disorders of Children	4		
3850:342	Sociology of Health and Illness	3		
3850:444	Social Issues in Aging	3		
3850:450	Sociology of Mental Illness	3		
5570:322	Current Topics in Health Education	3		
6500:480	Introduction to Health-Care Management	3		
7400:442	Human Sexuality	3		
7400:451	Child in the Hospital	4		
7750:456	Social Work in Health Services	3		
8200:315	Pathophysiology for Nurses	3		
8200:455	Professional Issues	2		
8200:470	Community Health Nursing	4		
* Can also be used for General Education credit.				

Physics*

 Required f 	Credits	
3650:291,2	Elementary Classical Physics I, II **	8
3650:301	Elementary Modern Physics	3
3650:3xx	Electives	. 7
Recomme	nded electives:	
3650:310	Electronics and Measurement Techniques	3
3650:320	Waves	3
3650:322,3	Intermediate Laboratory I, II	6
3650:331	Intermediate Astronomy	3
3650:340	Thermal Physics	3
3650:350	Modeling and Simulation	3

Political Science

- Each student shall complete at least nine of the required credits in 300/400level course work in political science.
- A student may select a minor concentration from one of the five following course sequences.

American Politics

3700:100	Government and Politics in the United States	4
Fourteen credits	from the following:	
3700:210	State and Local Government and Politics	. 3
3700:341	The American Congress	3
3700:342	Minority Group Politics	- 3
3700:350	The American Presidency	3
3700:360	The Judicial Process	3
3700:370	Public Administration: Concepts and Practices	4
3700:380	Urban Politics and Policies	4
3700:395	Internship in Government and Politics#	2- 9
3700:402	Politics and the Media	3
3700:440	Survey Research Methods	3
3700:470	Campaign Management I	3
3700:471	Campaign Management II	3
3700:472	Campaign Finance	3
3700:474	Political Opinion, Behavior and Electoral Politics	3
3700:475	American Interest Groups	3
3700:476	American Political Parties	3

Comparative Politics

•		
3700:150	World Politics and Governments	3
3700:300	Comparative Politics	4
Eleven additio	nal credits from the following:	
3700:304	Modern Political Thought	3
3700:320	Britain and the Commonwealth	3
3700:321	Western European Politics	3
3700:322	Politics of Post-Communist States	3
3700:323	Politics of China and Japan	3
3700:326	Politics of Developing Nations	3
3700:327	African Politics	3
3700:405	Politics in the Middle East	3
3700:425	Latin American Politics	3
Internatio	onal Politics	
3700:150	World Politics and Government	3
3700:310	International Politics and Institutions	4
3700:415	Comparative Foreign Policy	3
Eight addition	al credits from the following:	
3700:300	Comparative Politics	4
3700:304	Modern Political Thought	3
3700:312	The Politics of International Trade and Money	3
3700:320	Britain and the Commonwealth	3
3700:321	Western European Politics	3
3700:322	Politics of Post-Communist States	3
3700:323	Politics of China and Japan	3
3700:326	Politics of Developing Nations	3
3700:327	African Politics	3
3700:328	American Foreign Policy Process	3
3700:405	Politics in the Middle East	3
3700:410	International Defense Policy	3
3700:425	Latin American Politics	3

 Courses not applicable to the minor in physics without written permission by a faculty committee are 3650.399, 488, 490, 497 and 498.

** 3650:261,2, Physics for the Life Sciences, may be substituted for 3650:291,2, in whole or in part.

Public Policy Analysis

		Credits
3700:100	Government and Politics in the United States	4
3700:201	Introduction to Political Research	3
3700:441	The Policy Process	3
Eight additional	l credits from the following:	
3700:370	Public Administration: Concepts and Practices	4
3700:402	Politics and the Media	3
3700:440	Survey Research Methods	3
3700:442	Methods of Policy Analysis	3
3700:480	Policy Problems	3
3700:474	Political Opinion, Behavior and Electoral Politics	3
Pre-Law		
3700:100	Government and Politics in the United States	4
3700:360	The Judicial Process	3
3700:461	The Supreme Court and Constitutional Law	3
Eight additional	I credits from the following:	
3700:210	State and Local Government and Politics	3
3700:341	The American Congress	3
3700:361	Politics of the Criminal Justice System	3
3700:395	Internship in Government and Politics*	2-9
3700:462	The Supreme Court and Civil Liberties	3
Political S	cience/Criminal Justice	
3700:100	Government and Politics in the U.S.	4
3700:201	Introduction to Political Research	3
3700:361	Politics of the Criminal Justice System	3
• Eight additio	anal credits from the following:	
3700:363	Crime, Punishment, Politics: A Comparative Perspective	3
3700:395	Internship: Government & Politics*	2-9
3700:450	Politics of Corrections	3
3700:480	Policy Problems: Criminal Justice	3
3700:481	Politics of Policing	3
3700:482	Current Issues in Criminal Justice	3
3700:483	Constitutional Problems of Criminal Justice	3

*(Must be in a Criminal Justice related field. No more than 4 credits of internship may be applied toward a minor in Criminal Justice)

Psychology

· A total of 19 credits in Psychology with eight credits of 300/400-level course work.

•	Required for a	all students:	Credits
	3750:100	Introduction to Psychology	3
•	At least one c	ourse from these 100-200-level courses:	
	3750:110	Quantitative Method in Psychology	4
	3750:220	Introduction to Experimental Psychology	4
	3750:230	Developmental Psychology	4
	3750:240	Industrial/Organizational Psychology	4
•	At least one c	ourse from these 300-level courses:	
	3750:320	Biopsychology	4
	3750:335	Dynamics of Personality	4
	3750:340	Social Psychology	4
	3750:345	Cognitive Processes	4
•	Courses from	the following list which relate to student's area of inte	rest:
	3750:400	Personality	4
	3750:410	Psychological Tests and Measurements	4
	3750:420	Abnormal Psychology	4
	3750:430	Psychological Disorders of Children	4
	3750:435	Cross-cultural Psychology	4
	3750:440	Personnel Psychology and the Law	4
	3750:441	Clinical and Counseling Psychology	4
	3750:443	Human Resource Management	4
	3750:444	Organizational Theory	4
	3750:445	Psychology of Small Group Behavior	4
	3750:450	Cognitive Development	4
	3750:460	History of Psychology	3
	3750:474	Psychology of Women	3
	3750:475	Psychology of Adulthood and Aging	4
	3750:480	Speciel Topics in Psychology	1-4
	3750:485	Applied Developmental Psychology	4

Sales Management

This minor provides the student an opportunity to develop and document an understanding of sales management issues. A total of 18 credit hours are required for this minor. The student must complete 12 credit hours of required courses and 6 credit hours must be selected from a list of electives. To be granted this minor, the student must complete at least 9 credit hours in addition to the requirements for any other major, minor, or certificate that has been earned. Students should contact the Undergraduate Studies Office within the College of Business Administration for information on transfer credit and to request that the notation of the minor be included on the student's transcript upon submission of the degree clearance form for the baccalaureate degree.

Required: Complete all courses – 12 credits

6500:301	Management: Principles and Concepts
6600:275	Professional Selling
6600:300	Marketing Principles
6600:480	Sales Management
El cont	

Electives: Complete any 6 credits

6500:302	Organizational Behavior and Leadership Skills
6500:341	Human Resource Management
6600:350	Integrated Marketing Communications
6600:475	Business Negotiations
6600:485	Global Sales Strategy
6600:495	Internship in Marketing
7600:235	Interpersonal Communication

Sociology

· Nineteen total credits are required.

٠	Required for a	Il students:	Credits
	3850:100	Introduction to Sociology	4

• A minimum of 15 additional credits of sociology courses at the 300/400 level are required. Students may wish to select courses which relate to a particular interest area (e.g., family, health and illness, sex roles, urban life, gerontology). These areas are outlined in materials available in the Department of Sociology for assistance in course selection for the minor program.

Speech Language Pathology and Audiology

 Required c 	ore courses:	
7700:110	Introduction to Disorders of Communication	3
7700:120	Introduction to Audiology/Aural Rehabilitation	4
7700:211	Introduction to Speech Science	2
7700:230	Language Science and Acquisition	4
7700:322	Organic Disorders of Communications	4
7700:440	Augmentative Communication	3

Statistics

3

3

3 3

Analytic Geometry-Calculus I, II		8
Linear Algebra		3
Applied Statistics I, II		8
Approved 400-level statistics electives:		6
	Analytic Geometry-Calculus I, II Linear Algebra Applied Statistics I, II Approved 400-level statistics electives:	Analytic Geometry-Calculus I, II Linear Algebra Applied Statistics I, II Approved 400-level statistics electives:

Theatre Arts

(Requires a minimum of 24 credits. At least 6 of the 24 credits must be at the 300/400 level.)

7800:100	Experiencing Theatre	3
7800:106	Introduction to Scenic Design	3
7800:107	Introduction to Stage Costuming	3
7800:145	Movement Training	3
7800:151	Voice and Diction	3
7800:172	Acting f	3
7800:230	History of the Theatre	3
7800:262	Stage Makeup	3
7800:265	Basic Stagecraft	3
7800:271	Directing i	3
7800:330	Dramatic Literature I	3
7800:355	Stage Lighting Design	3
7800:373	Acting II	3
7800:421	Musical Theatre Production	3
7800:430	Dramatic Literature II	3
7800:470	Theatre in Education	3

Transportation

• C	ore:		
25	60:110	Principles of Transportation	3
25	60:118	Transportation Rate Systems	3
25	60:221	Traffic and Distribution Management	3
25	60:224	Transportation Regulation	3
• Si	ix credits f	from the following:	
25	60:115	Motor Transportation	3
25	60:116	Air Transportation	2
25	60:117	Water Transportation	2
25	60:222	Microcomputer Applications in Transportation	3
25	60:227	Transportation of Hazardous Materials and Wastes	2

Women's Studies

This minor focuses on the cultural practices that have largely excluded and devalued differences in gender, sexual orientation, ethnicity, race and class. This interdisciplinary minor requires certain core classes and then allows 12 hours of electives (two courses on the 300/400 level). At least one elective course must be taken from each of the following areas: humanities, natural sciences, fine and applied arts and a second cross-listed class from any area. (

•	Required for all students:		Credits
	1840:300	Introduction to Women's Studies	3
	1840:480	Feminist Theory	3
	1840:490	Women's Studies Lecture Series	1
	1840:493	Individual Studies in Women	1-3
		or	
	1840:489/589	Internship in Women's Studies	1-4

• Electives: One course from each of the following three areas: humanities, social sciences, fine and applied arts, and a second cross:listed course from any area.

Humanities

1840:485	Special Topics: Women as Survivors*	3
1840:485	Special Topics: Worlds of Women*	3
1840:493	Individual Studies on Women*	1-3
3000:282	Drama Appreciation: Women in Modern Drama	3
3200:450	Women and Gender in Classical Antiquity*	3
3300:386	Women in Modern Novels	3
3300:389	Special Topics: Ethnic Women in Literature	3
3300:389	Special Topics: Women Writers	3
3300:489	Women and Film*	3
3300:489	20th Century Women Writers*	3
3600:355	Philosophy of Ferninism	3

Social Sciences

1840:485	Special Topics: Boys to Men: Masculinity in Contemporary Society*	3
1840:485	Special Topics: Women, Poverty and Welfare*	3
1840:489	Internship in Women's Studies*	1-4
1840:493	Individual Studies on Women*	1-3
2540:265	Women in Management	3
3400:325	Women in Modern Europe	3
3400:340	African-American Women's History	3
3400:350	Women in the U.S.	3
3400:380	Soviet and U.S. Women in the 20th Century	3
3400:400	Women in Revolutionary China	3
3700:392	Special Topics: Women in Politics	3
3750:474	Psychology of Women	4
3850:344	The Sociology of Gender	3
3850:423	Sociology of Women	3
Fine and Appl	ied Arts	
1840:485	Women, Minorities and Media*	3
1840:493	Individual Studies on Women*	1-3
7100:401	Women in Art*	3

7100:401	Women in Art*	3
7400:201	Courtship, Marriage and Family Relations	3
7400:442	Human Sexuality	3
7600:408	Women, Minorities and News*	3
7750:411	Women's Studies in Social Work Practice*	3
7750:480	Special Topics: Gay and Lesbian Issues*	3



Interdisciplinary and Certificate Programs

Interdisciplinary and Certificate Programs of Study

OVERVIEW

To add to the dimensions of the traditional disciplines, the University has established interdisciplinary and interdepartmental programs of study. In addition to a major, the student may elect to pursue one of these programs.

Interdisciplinary Studies programs feature courses which integrate and analyze issues and concepts from more than one field. The goal of this type of study is to place knowledge into a greater perspective than would be possible through any one traditional field. This is accomplished by taking courses from a variety of departments as well as courses which may be team taught. Interdisciplinary Studies and certificate programs will include course work designated as 1800:.

Upon completion of any of these programs, a statement will be placed on the student's permanent record indicating the area of concentration. The certificate indicating the area of concentration will be awarded when the student completes requirements for a degree unless the program specifies that it is free standing and does not require participation in a degree program.

ACCOUNTING TECHNOLOGY

This certificate program is designed to address the needs of students who desire to develop an aptitude or interest in accounting technology. This program may be valuable to business technology majors and others

who are pursuing a more specialized level of training to enhance their earning capability. This emphasis is on serving the objectives of those students seeking the higher skills level and toward providing the training for Certified Bookkeeper, a certification awarded by the American Institute of Professional Bookkeepers.

The awarding of this certificate is not contingent upon completion of a degree program.

 Students must pass department placement exams or complete Bridge Courses (as needed as a result of the department placement exam) before enrolling in Business Management courses (2420).

Bridge Courses: Credits 2440:101 Fundamental Computer Concepts 1 2440:102 Introduction to Windows 2440:103 Software Fundamentals 2 Keyboarding for Nonmajors 2 2540:140 Required 2420:211 Basic Accounting I 3 3 2420:212 Basic Accounting II 3 2420:213 Essentials of Management Accounting 4 2420:217 Survey of Taxation 2420:243 Survey in Finance з 3 2420:215 Computer Applications for Accounting Cycles or 3 2420:220 Applied Accounting

AGING SERVICES

This program is intended for individuals who wish to enhance their knowledge of the aging process, study issues pertinent to the elderly, and develop skills useful in working with senior citizens. This program is not limited to community services majors.

This certificate program is generally designed for individuals in one of the following categories:

- The person with no degree but who is contemplating working with senior citizens.
- The person with a degree who has not had specialized training in the field of gerontology, but who would like to work in this field.
- The person employed in this field who would like to upgrade his/her knowledge and skills.
- Persons interested in enhancing the quality of their post-retirement years or those of family and friends.

Persons interested in this program should consult with the Public Services Department. This certificate may be earned independent of earning a degree.

~

Requirements

		Crouita
1850:450	Interdisciplinary Seminar in Gerontology	2
1850:486	Retirement Specialist	2
2020:121	English	4
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:244	Death and Dying	2
2260:150	Introduction to Gerontological Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community and Social Services	5
7400:390	Family Relationships in Middle and Later Years	3

ADDICTION SERVICES

This program is intended for individuals who wish to enhance their knowledge of addiction and addiction treatment. It is not limited to community services majors. The certificate is designed for individuals in one of the following categories:

- 1. The person who is preparing for the CCDC certification.
- The person who has not had specialized training, but who would like to develop expertise in the field of addictions.
- The person employed in the field who would like to upgrade his/her knowledge.

Persons interested in this program should consult with the Public Services Department. This certificate may be earned independent of earning a degree.

Requirements

2260:210	Addiction Education and Prevention	2		
2260:240	Pharmacology of Psychoactive Drugs	3		
2260:260	Introduction to Addiction	3		
2260:261	Addiction Treatment	4		
2260:262	Basic Helping Skills	4		
2260:263	Group Principles in Addiction	4		
2260:264	Addiction and the Family	. 3		
2260:267	Addiction Assessment and Treatment Planning	3		
2260:286	Addiction Services Internship	2		
Electives as desired:				
2260:265	Women and Addiction	3		
2260:268	Dual Diagnosis	3		
2260:269	Criminal Justice and Addiction	3		
2260:270	Relapse Prevention	2		
2260:271	Non-chemical Addictions and Dependencies	2		

APPLIED POLITICS

John C. Green, Ph.D., Director

The Ray C. Bliss Institute and the Department of Political Science have combined to offer a Certificate Program in Applied Politics for undergraduate students. The Certificate Program in Applied Politics offers course work in the history, organization and management of campaigns intended to influence the outcome of political decisions. Working from a set of core courses, students are allowed to concentrate in the area of applied politics of greatest interest-campaigns, communications, lobbying, political parties, etc. Believing that democracy is best served by having active and informed citizens, the certificate is designed for all students, no matter what their degree program, as long as they have a deep interest in practical politics.

Requirements

Persons are eligible for admission to the Certificate Program in Applied Politics if they have been admitted to study as special, non-degree or full-time students in any department of the University. Student shall seek admission to this program by filing an application with the Bliss Institute. The student shall schedule courses with the assistance of an advisor at the earliest possible time.

Core Courses		Credits	
3700:470	Campaign Management I	3	
3700:471	Campaign Management II	3	
3700:395	Intemship in Government and Politics	3	

Electives

In addition to the core courses, students must complete 9 elective credits. Three credits must be from the following:

3700:402	Politics and the Media	3
3700:440	Survey Research Methods	3
3700:472	Campaign Finance	3
3700:473	Voter Contact and Elections	3
3700:474	Public Opinion, Behavior and Electoral Politics	3
3700:475	American Interest Groups	3
3700:476	American Political Parties	3
7600:450	ST: Political Communication	3

Completed electives must also include an additional 6 credits from above or from approved courses in Political Science, Communication, or other departments. Students must maintain at least a "B" (3.0) average in their course work for the certificate.

Certificate

Political Science majors will, upon completion of the program, be awarded a B.A. or B.S. degree in Political Science with a Certificate in Applied Politics. Majors in other disciplines will have the Certificate noted on their permanent record.

BIOTECHNOLOGY SPECIALIZATION CERTIFICATE

The goal of this program is to allow engineering students with an interest in chemistry and biotechnology to develop suitable preparation for graduate study in biotechnology or the medical fields without reducing their potential for careers in traditional chemical engineering. Students will have ample opportunity to work with researchers in biotechnology through their engineering and design electives.

•	All current re (except: 315 Science)	quirements for the Bachelor's of Science in Chemical Er 0:313,314 Physical Chemistry I and II and 4200:305	Materia
	3100:111, 112	Principles of Biology I and II	4
	3100:311	Cell and Molecular Biology	4

		or	
	3100:331	Microbiology	4
Advanced Chemistry Elective — 2 credits			
	3150:401	Biochemistry Lecture I	3

•	Chemical Er	ngineering Elective — 3 credits	Credits
	4200:472	Separation Processes in Biochemical Engineering	3
	4200:473	Bioreactor Design	3
	4200:496	Topics in Chemical Engineering (with permission)	3
	4200:194	Chemical Engineering Design I (with permission)	1
	4200:294	Chemical Engineering Design II (with permission)	1-2
	4200:394	Chemical Engineering Design III (with permission)	1-3
	4200:494	Design Project (with permission)	3
	4200:497	Honors Project (with permission)	1-3
	4200:499	Research Project (with permission)	1-3
	4800:360	Biofluid Mechanics	3
	4800:400	Biomaterials	3
Design Electives — 6 credits			
	4200:473	Bioreactor Design	3
	4200:496	Topics in Chemical Engineering (with permission)	3
	4200:194	Chemical Engineering Design I (with permission)	1
	4200:294	Chemical Engineering Design II (with permission)	1-2
	4200:394	Chemical Engineering Design III (with permission)	1-3
	4200:494	Design Project (with permission)	3
	4200:497	Honors Project (with permission)	1-3
	4200:499	Research Project (with permission)	1-3
	4300:482	Special Projects (with permission)	3
	4800:485	Special Topics in Biomedical Engineering	1-3

BUSINESS MANAGEMENT TECHNOLOGY

This certificate program is intended to promote understanding of the basic aspects of business formation and operation. The program can be useful for nonbusiness majors benefiting from an introduction to a new discipline. The emphasis is on serving the objectives of the students who expect to enhance their value to current employers or those students who may want to acquire newer skills toward seeking prospective employment.

The awarding of this certificate is not contingent upon completion of a degree program.

Students must pass department placement exams or complete Bridge Courses (as needed as a result of the department placement exam) before enrolling in Business Management courses (2420).

Bridge Courses

2420

2420 2520

-		
2440:101	Fundamental Computer Concepts	1
2440:102	Introduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Nonmajors	2
Required		
2420:104	Introduction to Business in the Global Environment	3
2420:103	Essentials of Management Technology	3

0:104	Introduction to Business in the Global Environment	3
0:103	Essentials of Management Technology	3
):211	Basic Accounting I	3
):280	Essentials of Business Law	3
0:101	Essentials of Marketing Technology	3
CANADIAN STUDIES

Mary K. Kirtz, Ph.D., Director

Requirements

The student in the Canadian Studies Certificate Program will complete 15 hours of course work offered by the designated departments in the Buchtel College of Arts and Sciences. An independent study or a course with Canadian content not on the following list may be substituted for one of the electives with the approval of the Canadian Studies Committee. Persons admitted to study as special, non-degree or full-time students are eligible to apply for the certificate.

Required Course:

		Cieuns
3005:300	Canadian Studies	3
Electives (4 n	nust be taken):	
3005:498	Independent Study	1-3
3240:356	Archeology of the Americas	3
3240:358	Indians of North America	3
3240:472	Special Topics in Anthropology: Modern Native Americans	3
3300:382	Contemporary Canadian Literature	3
3300:489	Seminar in English: Traditional American Indian Tales	3
3300:489	Seminar in English: Great Lakes Indians — Languages and Literatures	3
3350:330	Rural and Urban Settlement	3
3350:350	Geography of U.S. and Canada	3
3350:420	Urban Geography	3
3400:345	Native North American History	3
3400:352	The West in the Development of the United States	3
3400:381	History of Canada	3
3500:320	French-Canadian Literature in Translation	3
3850:365	Special Topics: Comparing Society	3

CARTOGRAPHIC SPECIALIZATION

Robert B. Kent, Ph.D., Department Chair

Requirements

This program of professional and scientific education is intended to enhance cartographic training in data handling, analysis and graphic communication of simple and complex geographic data and information. The program is not limited to geography majors and is designed to introduce automated and traditional cartographic skills to the student in a wide spectrum of disciplines. These training opportunities provide for specialized study in the rapidly changing and significant area of cartography as a method of graphic communication. The program is flexible to meet the varied backgrounds and interests of the individual student.

In addition to cartographic courses in the Department of Geography and Planning, many useful courses are found in other departments. The program is designed to permit the student to combine interesting and useful elements of art, science and technology. This certificate may be earned independent of a degree program.

Cartography has a very long and rich history and, while it is eminently practical, has a strong component of theory. For this reason, a student may elect to take cartographic courses simply because they are focused on an interesting and exciting liberal arts subject. Other students choose cartography courses with the thought of increasing their potential of finding a position subsequent to graduation. There is a well-documented need for persons trained in cartographic awareness and skill in business, industry and government, as well as the academic community.

Core

Complete five of the following basic courses:

3350:305	Maps and Map Reading	3
3350:340	Cartography	3
3350:405	Geographic Information Systems	3
3350:442	Thematic Cartography	3
3350:444	Applications in Cartography and Geographic Information Systems	3
3350:447	Remote Sensing	3
3350:448	Advanced Cartography	3
3350:449	Advanced Remote Sensing	3

Electives

Each student must complete at least seven credits distributed between professional, technical and research offerings in departments other than the Department of Geography and Planning. These courses will be selected in consultation with the program's director. Similar courses completed at other universities, up to five years prior to admission to candidacy, may be approved by the director.

The electives help develop a diverse cartographic skill and perspective which is significant and useful for persons working with data systems management, urban planning and environmental impact studies. To be truly effective and comprehensive in a career, the student must know a variety of professional and technical approaches to cope with social, economic, political, geographical, physical design and governmental problems. Selecting courses that duplicate or continue topical interests already well established in a particular student's background will be discouraged.

Internship

Internship in an agency, firm or office engaged in related graphic and cartographic work; or an internship in the University's Laboratory for Cartographic and Spatial Analysis.

Final Examination and Defense of Cartographic Works

After the completion of course work each student undergoes an oral examination covering samples of the student's cartography, conducted by two members of the department and one from the elective area. Questions cover the specific projects and topics covered in the course work completed specifically for the program. One week before the scheduled examination, the student submits samples of cartographic work.

The works must be acceptable to the examination committee and reduced photographic copies will be kept for permanent record in the laboratory's file. After passing the oral examination and the acceptance of the samples of cartography, the student is considered to have completed the program.

A minimum grade of "C" is required in all elective courses taken as part of the certificate program. In the five core courses, an average grade of "B" is required.

CHILD CARE WORKER

Requirements

This certificate program provides basic vocational training for child-care practitioners. The course of study is a means of meeting the short range goals of students interested in acquiring skills for job placement in early childhood settings. This certificate may be attained independent of earning a degree.

2040:240	Human Relations	3
2200:245	Infant/Toddler Day-Care Programs	3
2200:250	Observing and Recording Children's Behavior	3
2200:246	Multicultural Issues in Child Care	3
2200:247	Diversity in Early Childhood Literacy	3
5200:360	Teaching in the Early Childhood Center	2
5200:370	Early Childhood Center Laboratory	2
7400:265	Child Development	3
7400:270	Theory and Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	4

COMPUTER INFORMATION SYSTEMS

This certificate provides the opportunity to become proficient in the use of popular micro computer software. This certificate may be obtained independent of a degree.

Students must pass department placement tests, complete Bridge Courses or obtain permission from the program director.

Bridge Courses	:	
2440:101	Fundamental Computer Concepts	1
2440:102	Intricduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Nonmajors	2
Required Cours	185.	
Required Cours 2440:121	es: Introduction to Logic/Programming	3
Required Cours 2440:121 2440:140	es: Introduction to Logic/Programming Internet Tools	3 3
Required Cours 2440:121 2440:140 2440:175	es: Introduction to Logic/Programming Internet Tools Microcomputer Application Support	3 3 3

Programming Certificate

Students must pass department placement tests, complete Bridge Courses or obtain permission from the program director.

Bridge Cours	61 .	Credits
2440:101	Fundamental Computer Concepts	1
2440:102	Intricduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Nonmajors	2
Required Cou	urses:	
2440:121	Introduction to Logic/Programming	3
2440:160	Java Programming	3
2440:170	Visual Basic	3
2440:256	C++ Programming	3

Cisco Networking Technology Certificate

The Cisco Networking Certificate provides the network administration and technical support skills needed to provide Cisco support to business and industry. This certificate my be obtained independent of a degree.

Students must pass department placement tests, complete Bridge Courses or obtain permission from the program director.

Bridge Courses:

2440:101	Fundamental Computer Concepts	1
2440:102	Intricduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Nonmajors	2
Required Co	urses:	
2440:201	Cisco Networking I	4
2440:201	Cisco Networking II	4
2440:203	Cisco Networking III	4
2440:204	Cisco Networking IV	4

Cisco Networking classes offered at main campus only.

Database Development Certificate

The Database Development Certificate provides students from other disciplines an opportunity to gain database skills demanded by business and industry. This certificate may be obtained independent of a degree.

Students must pass department placement tests, complete Bridge Courses or obtain permission from the program director.

pringe cours	M33.	
2440:101	Fundamental Computer Concepts	1
2440:102	Intricduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Nonmajors	2
Required Co	Lines:	
2440:121	Introduction to Logic/Programming	3
2440:180	Database Concepts	3
2440:210	Client Server Programming	3
2440:234	Advanced Business Programming	3

Webmaster Certificate

Bridge Cox

The Webmaster Certificate provides students from other disciplines an opportunity to gain web development skills demanded by business and industry. This certificate may be obtained independent of a degree.

Students must pass department placement tests, complete Bridge Courses or obtain permission from the program director.

punda cons		
2440:101	Fundamental Computer Concepts	1
2440:102	Intricduction to Windows	1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Nonmajors	2
Required Co	urses:	
2440:140	Internet Tools	3
2440:141	Web Site Administration	3
2440:211	Interactive Web Programming	3
2440:212	Multimedia & Interactive Web Elements	3

COMPUTER PHYSICS

E. Von Meerwall, Ph.D., Director

Requirements

To qualify for the certificate program, a student must be in good academic standing in the major department and must submit a written request for admission to the director of the program. This course of study adds a component of both physics and computer science to a major in a traditional area of science. The physics courses, beyond Elementary Classical Physics, emphasize computer applications, including interfacing and data acquisition, data analysis and use of computers to solve physical problems.

Physics		Credits
3650:291,2	Elementary Classical Physics I, II	8
3650:350	Modeling and Simulation	3
3650:468	Digital Data Acquisition	3
Mathematics		
3450:221,2	Analytic Geometry-Calculus I, II	8
Computer Scie	nce	
3460:206	Introduction to C Programming	3
3460:209	Introduction to Computer Science	4
3460:210	Data Structures and Algorithms I	4

The certificate program has been structured to be accessible to most students working toward an undergraduate degree in a traditional area of science. The certificate may be combined with a minor in physics for students who wish to obtain a background in physics which emphasizes applications and uses of computers to collect and analyze data and to solve physical problems.

COMPUTER SCIENCE

Wolfgang Pelz, Ph.D., Department Chair

Requirements

Entrance

Courses 3450:20 3450:21

To qualify for the Computer Science Certificate Program, a student must be in good academic standing in the major department, must have completed four credits of mathematics in the Department of Mathematics and Computer Science and must submit to the department chair a written request for admission to the program. The request will outline the student's reasons and goals for enrolling in the program. The area of concentration adds a further dimension of both mathematics and computer science to the student's major in one of the traditional academic disciplines. A minimum grade-point average of 2.00 in the certificate is required. The Certificate in Computer Science will only be granted upon completion of a degree program or if a degree has already been earned.

)urses		
3450:208	Introduction to Discrete Mathematics	4
3450:215	Concepts of Calculus I	4
	or	
3450:221	Analytic Geometry-Calculus I	4
3460:209	Introduction to Computer Science	4
3460:210	Data Structures and Algorithms I	4
3460:306	Assembly Language Programming	4
3460:316	Data Structures and Algorithms II	3
XXXX:XXXX	Approved 300/400-Level Computer Science Electives	6

CONFLICT MANAGEMENT

For information, contact the Director of the Center for Conflict Management at 330-972-7008.

This program analyzes, from a multi-disciplinary perspective, the sources and causes of violence as well as the methods for mediating and resolving conflict.

Admission Requirements and Procedures

Students must:

- be formally admitted as an undergraduate or be a post-baccalaureate student.
- complete a formal application to the program. Forms are available at the Center for Conflict Management Office, Room 201, Leigh Hall.

Students need not be enrolled in certificate program to take Conflict Management courses.

A minimum of 21 semester credit hours required. Eleven of these must be at the 300/400 level.

Certificate for Conflict Management

Core Cours	es (9 credits)
3003:230	Introduction to Conflict Management/Resolution
3003:430	Integrative Approaches to Conflict Management/Resolution
3003:495	Internship in Conflict Management

Basic Background Courses (3 credits)

3003:378	Introduction to Human Rights Concepts	3
3230:150	Cultural Anthropology	4
3250:100	Introduction to Economics	3
3600:120	Introduction to Ethics	3
3600:170	Introduction to Logic	3
3600:324	Social and Political Philosophy	3
3700:303	Introduction to Political Thought	3
3700:304	Modern Political Thought	3
3750:340	Social Psychology	4
7600:235	Interpersonal Communication	3
7600:325	Intercultural Communication	3
7600:325	Intercultural Communication	

Topical Courses (9 credits)

Choose courses in one of the following areas.

- Business/Economics/Labor
- Family/Community
- International

Business/Economics/Labor

3250:330	Labor Problems	3
3250:431	Labor and Government	3
3250:432	Economics and Practice of Collective Bargaining	3
3600:362	Business Ethics	3
3750:240	Industrial/Organizational Psychology	4
3750:440	Personal Psychology and the Law	4
3750:443	Human Resource Management	4
3750:444	Organizational Theory	4
3750:445	Psychology of Small Group Behavior	4
3850:335	Social Behavior in Organization	3
6400:325	Business and Society	3
6500:301	Management: Principles and Concepts	3
6500:302	Organizational Behavior and Leadership Skills	3
6500:341	Human Resource Management	3
6500:342	Labor Relations	3
6500:458	Selected Topics in Managenial Arbitration, Mediation, Conciliation	1-3
6600:475	Business Negotiations	3
7600:435	Communication In Organizations	3

Family/Community

-	•	Credits
3003:300	Special Topics: Alternatives to Violence	3
3230:461	Language and Culture	3
3230:463	Social Anthropology	3
3600:331	Philosophy of Religion	3
3600:361	Biomedical Ethics	3
3600:421	Philosophy of Law	3
3700:361	Politics of the Criminal Justice System	3
3750:400	Personality	4
3750:435	Cross Cultural Psychology	4
3750:441	Clinical and Counseling Psychology I	4
3750:445	Psychology and Small Group Behavior	4
3850:315	Sociological Social Psychology	3
3850:320	Social Inequality	3
3850:341	Political Sociology	3
3850:421	Racial and Ethnic Relations	3
7400:201	Courtship, Marriage and the Farnily	3
7400:362	Family Life Management	3
7400:401	Family Life Patterns in the Economically Deprived Home	2
7400:404	Adolescence in the Family Context	3
7400:496	Parenting Education	3
7600:225	Listening	1
7600:227	Nonverbal Communication	3
7600:252	Persuasion	3
7600:344	Group Decision Making	3
7750:270	Poverty in the United States	3
7750:410	Minority Issues in Social Work Practice	3
7750:430	Human Behavior and Social Environment II	3

International

Credits 3 3

3-6

	- · · - · · · · · · · · · · · · · · · ·	-
3003:300	Special Topics: Alternatives to Violence	3
3003:301	Value Concepts: Peace and War	3
3003:378	Introduction to Human Rights Concept	3
3003:382	The Vietnam War	3
3250:450	Comparative Economic Systems	3
3250:460	Economic Development and Planning for Underdeveloped Countries	3
3250:461	Principles of International Economics	3
3350:350	Geography of US and Canada	3
3350:353	Latin America	3
3350:356	Europe	3
3350:358	Russia and Associated States	3
3350:360	Asia	3
3350:363	Africa South of the Sahara	3
3400:438	Nazi Germany	З
3400:460	U.S. Diplomacy to 1919	З
3400:461	U.S. Diplomacy since 1914	3
3600:324	Social and Political Philosophy	З
3700:310	International Politics and Institutions	4
3700:312	The Politics of International Trade and Money	3
3700:322	Politics of Post-Communist States	3
3700:326	Politics of Developing Nations	3
3700:405	Politics in the Middle East	3
3700:410	International Defense Policy	З
3700:415	Comparative Foreign Policy	З
6800:421	International Business Practices	3

CONSTRUCTION ENGINEERING TECHNOLOGY

Certificate Program in Construction Management

Requirements

A minimum of 18 hours is required

The certificate program in Construction Management is open to undergraduates or graduates who have been admitted to The University of Akron. This program is aimed at developing technical knowledge and skills necessary to supervise a construction project. This certificate may be earned independently of earning a degree, but all coursework can be applied to the B.S. degree in Construction Engineering Technology.

The following courses are required:		Credits
2990:351	Construction Quality control	2
2990:352	Field Management and Scheduling	2
2990:358	Advanced Estimating	3
2990:359	Construction Cost Control	3
2990:453	Legal Aspects of Construction	2
2990:468	Construction Management	3
2990-498	Independent Study in Construction	3

Because most of the required courses have prerequisites, students should consult with the program director of the Construction Technology program for a contract before beginning coursework.

One semester of co-op or an internship with a construction or construction related company is required.

For further information, contact:

Surveying & Construction Program Director Community & Technical College The University of Akron Akron, OH 44325-6104

CRIMINAL JUSTICE

Requirements

The program specified is designed to provide background, proficiency and updating in the criminal justice area and the private security industry. While many professionals have completed a degree, many more would benefit by this type of approach. The designed program would provide a measure of recognition for those students enrolled and completing the program. The program would be continually monitored and has been included in many localities as an incentive for promotion, pay increases and lateral movement within the police or security agency. This certificate may be obtained independent of a degree.

Criminal Justice/General

2220:100	Introduction to Criminal Justice	3
2220:102	Criminal Law for Police	3
2220:104	Evidence and Criminal Legal Process	3
2220:240	Vice and Organized Crime	. 3
2220:250	Criminal Case Management	6
3850:100	Introduction to Sociology	4
Criminal	Justice/Security	
2220:101	Introduction to Proprietary Safety	4
2220.290	Special Topics in Criminal Justice	. 3

2220:290	Special Topics in Criminal Justice
2220:296	Current Topics in Criminal Justice
2230:204	Fire Hazards Recognition
2230:250	Hazardous Materials
2230:257	Fire and Safety issues for Business and Industry

Criminal Justice/Corrections

2220:100	Introduction to Criminal Justice	3
2200:102	Criminal Law for Police	3
2200:106	Juvenile Justice Process	3
2200:290	Community Corrections	3
3850:100	Introduction to Sociology	4
3850:330	Criminology	3
3850:431	Corrections	3
		22

Crimina	Justice,	Advanced/	Officer	Training
---------	----------	-----------	---------	----------

2220:212	Traffic Accident Investigator	4
2220:222	Interview and Interrogation	3
2220:242	Organized Crime/Vice Crime	3
2220:252	Advanced Criminal Case Management	4
2220:262	Police Administration	3
2220:290	Special Topics: Occult Crime	3
		20

Credits

DIGITAL ELECTRONICS AND MICROPROCESSORS

Requirements

The certificate program in Digital Electronics and Microprocessors is designed for students who desire a formal, structured program in a specific area in the field of electronics, but, because of time or work constraints, are unable to pursue a complete associate or baccalaureate degree program.

The following 26 semester hours are required:

2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Mathematics IV	3
2860:120	DC Circuits	4
2860:122	AC Circuits	3
2860:123	Electronic Devices	3
2860:136	Digital Fundamentals	2
2860:237	Digital Circuits	4
2860:238	Microprocessor Applications	4
acturace take	a may be explicit toward the Associate Degree in	Electro

All courses taken may be applied toward the Associate Degree in Electronic Engineering Technology.

DRAFTING AND COMPUTER DRAFTING TECHNOLOGY

Requirements

1-3 3

> 4 з

The certificate program in Drafting and Computer Drafting Technology is intended for individuals who wish to enhance or update their drafting skills. The program has been designed so that an individual can emphasize a specific area of drafting. A minimum of 18 credits is required. All courses taken may be applied toward an associate degree in Drafting and Computer Drafting Technology. This certificate may be earned independent of any degree program.

The following 9 semester hours are required:

2940:121	Technical Drawing I	3
2940:122	Technical Drawing II	3
2940:210	Computer Aided Drawing I	3
A minimum o	f 9 semester hours selected from the followin	g:
2940:170	Surveying Drafting	3
2940:200	Advanced Drafting	3
2940:211	Computer Aided Drawing II	3
2940:230	Mechanical Systems Drafting	3
2940:240	Electrical & Electronic Drafting	3
2940:250	Architectural Drafting	3
2980:223	Fundamentals of Map Production	3
2990:250	Structural Drafting	2
All courses ta	iken may be applied toward the Associate D	begree in Drafting and

EMERGENCY MANAGEMENT

The field of emergency management continues to develop rapidly as disasters and major emergencies become more frequent and responses to such emergencies become more complex. In addition, federal and state legislation affecting emergency planning and preparedness has increased the demand for well-educated individuals at all levels of government, business and industry.

This program prepares students with a background in fire protection, criminal justice, environmental health and safety, or other related fields to enter and advance in the field of emergency management through the acquisition of specialized knowledge of emergency management concepts, planning, natural disasters and mitigation.

Enrollment in The University of Akron

•	Completion of the followin	g required courses (24 credits):
---	----------------------------	----------------------------------

2235:305	Principles of Emergency Management	3
2235:350	Emergency Response Preparedness & Planning	3
2235:405	Hazard Prevention and Mitigation	3
2235:410	Disaster Relief and Recovery	3
2235:450	Emergency Management Research Methods and Applications	4
3350:305	Maps and Map Reading	3
3350:310	Physical and Environmental Geography	3
3350:433	Practical Approaches to Planning	3
Completion	of 6 credit hours selected from the following recommended	electives:

	.	
2235:495	Intemship: Emergency Management	1-4
3250:385	Economics of Natural Resources and the Environment	3

		-
3350:314	Climatology	3
3350:320	Economic Geography	3
3350:405	Geographic Information Systems	3
3350:428	Industrial and Commercial Site Location	3
3350:444	Applications in Cartography and GIS	3
3350:447	Remote Sensing	3
3370:350	Structural Geology	3
3370:421	Coastal Geology	3
3400:471	American Environmental History	3
3700:370	Public Administration Concepts and Practices	3
3700:412	Global Environment Politics	3
3850:428	The Victim in Society	3
7600:303	Public Relations Writing	3
7600:344	Group Decision Making	3
3850:xxx	Social Behavior in Crisis	3

ENTREPRENEURSHIP

This certificate program prepares potential entrepreneurs. It provides students with exposure to entrepreneurial activities and builds critical skills needed for entrepreneurial activities. (Courses in this program may not be subsequently used to satisfy any College of Business Administration core course requirements.)

Requirements

A total of 18 credit hours is required for the certificate program. The student must complete 15 credit hours of required courses. In addition, a 3 credit hour course must be selected from a list of electives.

Program:

•	Required: Con	nplete all courses - 15 hours	
	6300:201	Introduction to Entrepreneurship	3
	6300:301	New Venture Creation*	3
	6300:330	Financing New Ventures	3
	6300:360	Entrepreneurial Field Project	3
	6300:450	Business Plan Development	3
•	Electives: Cor	nplete one course - 3 credits	
	6300:370	Studies in Free Enterprise	3
	6300:490	Entrepreneurship: Selected Topics	1-3
	6300:499	Independent Study in Entrepreneurship	1-3

Students who have taken 6500:301 and 330 will complete 6300:303 Entrepreneurial Management Issues (one credit) in lieu of 6300:301. Such students should then select two more credits of entreprenurial electives

ENVIRONMENTAL STUDIES

Ira D. Sasowsky, Ph.D., Director

Requirements

To qualify for the certificate program, students must be in good academic standing with their major department and request admission to the program by completing the certificate application form. A plan of study will be developed in consultation with the director of the Center for Environmental Studies. To satisfy the requirements a student must complete the core courses and 11 credits from the list of elective courses or other courses identified as acceptable by the director. Elective courses will be selected from areas outside their academic major.

Core (required)

Credits

Core (requir	ed)	Credits
3010:201	Introduction to Environmental Studies	3
3010:401/501	Seminar in Environmental Studies	2
Electives (minimum of 11 cr o dits)	
2230:250	Hazardous Materials	4
3010:401/501	Seminar in Environmental Studies (may be repeated as an elective)	2
3010:490/590	Workshop in Environmental Studies	1-4
3100:217	General Ecology	3
3100:342	Flora and Taxonomy	3
3100:421/521	Tropical Field Biology	4
3100: 425/525	Freshwater Ecology Field & Laboratory Studies	3
3100:426/526	Wetland Ecology	4
3150:100	Chemistry and Society	3
3250:385	Economics of Natural Resources and the Environment	3
3350:310	Physical and Environmental Geography	3
3350:351	Ohio Environment and Society	3
3350:405/505	Geographic Information Systems	3
3350:407/507	Advanced Geographic Information Systems	3
3350:447/547	Remote Sensing	3
3350:449/549	Advanced Remote Sensing	3
3350:495/595	Soil and Water Field Studies	3
3370:125, 126,1	29,130,131,133,134,135, 136 Concepts in Geology	1
3370:200	Environmental Geology	3
3370:201, 203	Exercises in Environmental Geology I, II	1
3370:301	Engineering Geology	3
3370:371	Oceanography	4
3370:470/570	Geochemistry	3
3370:474/574	Groundwater Hydrology	3
3400:471/571	American Environmental History	3
3700:412/512	Global Environmental Politics	3
3850:321	Population	3
4100:203	Environmental Science & Engineering	3
4200:463/563	Pollution Control	3
4300:321	Introduction to Environmental Engineering	3
4300:323	Water Supply and Pollution Control	3
4300:423/523	Chemistry for Environmental Engineers	3
4300:424	Water-Wastewater Laboratory	1
4300:426/526	Environmental Engineering Design	3
4300:427/527	Water Quality Modeling and Management	3
4300-428/528	Hazardous and Solid Waste	3

FINANCIAL PLANNING

The 18-credit certificate in Financial Planning will permit students to acquire the educational foundation for a career in financial planning and will qualify them to sit for the Certified Financial Planner Certification Examination.

6200:410	Taxation for Financial Planning	3
6400:332	Personal Financial Planning	3
6400:343	Investments	3
6400:371	Business Finance	3
	or	
6140:370	Introduction to Finance (non-business students only)	3
6400:415	Risk Management and Insurance	3
6400:432	Seminar in Personal Financial Planning	3

FIRE PROTECTION TECHNOLOGY

Requirements

Fire continues to be a problem in the United States even though the loss of lives is declining due to new, innovative public education programs, rigorous enforcement of building and fire code enforcement and the application of advanced technology related to fire detection and suppression systems. However, with the loss of civilian lives ranging from 4,050 to 4,440 each year and property loss continuing to escalate, the need for well-educated fire fighters becomes more important as community resources are reallocated.

The Fire Protection Technology certificate will assist the student in acquiring the knowledge and skills necessary to function effectively as a fire protection specialist.

		Credits
2230:100	Introduction to Fire Protection	3
2230:102	Fire Safety in Building Design and Construction	3
2230:104	Fire Investigation Methods	4
2230:202	Incident Management for Emergency Responders	4
2230:204	Fire Hazards Recognition	3
2230:205	Fire Detection and Suppression Systems I	3
2230:250	Hazardous Materials	4

GEOGRAPHIC AND LAND INFORMATION SYSTEMS

Requirements

A minimum of 18 hours is required.

The certificate program in Geographic and Land Information Systems may be earned independently of any degree program. This certificate program has been designed to provide individuals with the basic entry-level skills necessary for those seeking positions as GIS Technicians. All courses taken may be applied toward an A.A.S. degree in Surveying and Construction Engineering Technology and/or the B.S. degree in Surveying and Mapping Technology. Students who do not have experience or formal training in basic drafting and computer aided drawing must complete coursework in these areas first (see advisor).

2940:170	Surveying Drafting
2980:223	Fundamentals of Map Production
2980:227	Introduction to Geographic and Land Information Systems
2980:422	GPS Surveying
2980:445	Application in GIS with GPS
2980:498	Independent Study
3350:405	Geographic Information Systems

For further information, contact:

Surveying & Construction Program Director Community & Technology College The University of Akron Akron, OH 44325-6104 330-972-7059

GERONTOLOGY

Harvey L. Sterns, Ph.D., Director Isadore Newman, Ph.D., Associate Director Terry H. Albanese, Ph.D., Program Coordinator, Gerontology Certificate Program; Practicum Coordinator

Jerome Kaplan, Ph.D., Program Coordinator, Nursing Home Administrator Program

Requirements

This certificate program is a special course of study in gerontology that compliments undergraduate degree programs in various departments and colleges throughout the University. Individuals who already hold an undergraduate degree may also pursue the certificate. The program represents a concentration involving current knowledge and research in gerontology. It adds another dimension to the knowledge and skills a student is able to offer in the many professions that are becoming specialized in research and service to adults and older adults. This course of study coordinates multidisciplinary training of personnel in adult development and aging and helps to meet the critical shortage of trained individuals in the field of gerontology.

The undergraduate curriculum committee of the Institute for Life-Span Development and Gerontology will oversee this certificate program and certify through the director of the institute that all requirements for the certificate have been completed.

A sequence of study is available in Nursing Home Administration through the institute. The undergraduate certificate is included in the Ohio Board of Examiners of Nursing Home Administrators approved course of study in Nursing Home Administration which combines a Bachelor of Science degree in management (Human Resource Management Concentration) with a Certificate in Gerontology.

B.S./M.D. students may complete the Practicum/Internship and electives from courses available from the institute or the Office of Geriatric Medicine and Gerontology, NEOUCOM.

Admission

To participate in the program, a student must:

- · Obtain admittance to The University of Akron as an undergraduate or postbaccalaureate student.
- Submit an application to the program countersigned by the student's major academic adviser.
- · Participate in an interview with the Director or a designated faculty member of the Institute for Life-Span Development and Gerontology.
- Consult with the Director or a designated faculty member to formulate a program of study.
- Receive written notification of admission from the Director of the Institute for Life-Span Development and Gerontology.

Program

Minimum: 20 credits.

Core

30

30

31

37

38

30

3 3 3

2

3

1

з

		CIEURS
06:450	Interdisciplinary Seminar in Gerontology	2
06:495	Practicum/Internship (within Institute or in individual departments)	. 3
00:392	Biology of Aging	3
50:475	Psychology of Adulthood and Aging	4
50:343	The Sociology of Aging	3

Electives (must be outside of student's major degree department)

3006:486	Retirement Specialist	2
3006:490	Workshop Women: Middle and Later Years	2
3006:490	Workshop Aging: Process and Intervention	2
3006:485-001	Special Topics Long Term Care: Case Management/Patient Services	3
3006:485-003	Special Topics Long Term Care: Health and Nutrition	3
2040:244	Death and Dying	2
3850:365	Special Topics in Sociology: Death and Dying	3
5400:400	Post Secondary Learner	3
6500:480	Introduction to Health Care Management	3
7400:390	Family Relationships in Middle and Later Years	3
7700:110	Introduction to Disorders of Communication	3
7750:450	Social Needs and Services: Aging	3

For students in course sequence for Nursing Home Administration, the following courses are required:

3006:485	ST: Long Term Care Administration	3
3006:485	ST: Long Term Care Case Management and Patient Services	3
3006:485	ST: Long Term Care Health and Nutrition	3
3006:485	ST: Long Term Care Administrator-in-Training Experience	3

Many courses have prerequisites; contact your advisor or the Institute director.

GLOBAL SELLING

Scott Widmier, Ph.D., Coordinator

This certificate program provides the opportunity to develop and document expertise for selling within an international context. It is especially important for a person who has gained product knowledge by selecting a major in a technical field, but needs to gain competency in global selling issues. The Certificate in Global Selling is also an attractive opportunity for the post-baccalaureate student who already has a college degree and wants to improve professional skills within this field.

Requirements

A total of 15 credit hours are required for this certificate program. The student must complete 12 credit hours of required courses and 3 credit hours must be selected from a list of electives. To be granted the certificate, the student must complete at least 6 credit hours in addition to the requirements for any other major, minor or certificate that has been earned. Students should contact the Director of Undergraduate Studies in Business Administration for information on transfer credit and to request that notation of the certificate be included on the student's transcript upon completion of the courses.

Program

Required:	Complete all 12 credits	Credits
6600:275	Professional Selling	3
6600:300	Marketing Principles	3
6600:485	Global Sales Strategy	3
6800:305	International Business	3
Electives:	Select any 3 credits	
3250:461	Principles of International Economics	3
6500:457	International Management	3
6600:385	International Marketing	3
6600:475	Business Negotiations	3
6600:480	Sales Management	3
6800:421	International Business Practices	3
7600:325	Intercultural Communication	3

HOME-BASED

Helen Cleminshaw, Ph.D., Coordinator

This certificate program is a special course of study along with the undergraduate degree programs in various departments and colleges throughout the University. Undergraduate students will earn the certificate upon their graduation in their degree program. Individuals who already hold an undergraduate degree may pursue the certificate in the postbaccalaureate program. The program represents a concentration in current theoretical knowledge and practice in home-based intervention. It adds another dimension to the knowledge and skills a student is able to offer in the many professions that relate to services to at-risk children and their families. This course of study coordinates multidisciplinary training of personnel in home-based intervention.

The undergraduate curriculum committee of the Center for Family Studies will oversee the certificate program and certify through the certificate program director that all requirements for the certificate have been completed.

Admission

To participate in the program the student should:

- Be formally admitted to The University of Akron as an undergraduate or postbaccalaureate student.
- Make written application to the program countersigned by the student's major adviser (if applicable).
- Have an interview with the director of the certificate program in Home-based Intervention.
- · Consult with the director to formulate a program of study.
- Receive written notification from the director of admission to the program.

Program

All students enrolled in the home-based certificate program will enroll in the core courses in Home-based Intervention. Students will complete 18 credits in core and elective course work.

Core (9-11 credits)

1820:403	Home-based Intervention Theory
1820:404	Home-based Intervention Techniques and Practice
1820:405	Home-based Intervention Internship

Eligibility courses (9 credits)

Students must have completed at least nine undergraduate credits in theoretical frameworks from their discipline or in related areas as follows:

Students will select at least one course from each area or document the same or an equivalent course from transcripts.

Psychology		Credits
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3750:335	Dynamics of Personality	4
Family and C	Consumer Sciences	
7400:265	Child Development	3
7400:360	Parent-Child Relations	3
7400:362	Family Life Management	3
Sociology/Se	ocial Work	
7750:276	Introduction to Social Welfare	4
7750:455	Black Family Issues	3
3850:100	Introduction to Sociology	4
3850:340	The Family	3

Electives (9 credits)

Select one course from three different disciplines. (Must be outside student's major degree area.)

Family and Consumer Sciences

ranning and C		
7400:401	Family Life Patterns in the Economically Deprived Home	2
7400:404	Adolescence in the Family Context	3
7400:406	Family Resource Management	3
7400:440	Family Crisis	3
7400:442	Human Sexuality	3
Sociology		
3850:410	Social Structures and Personality	3
3850:412	Socialization: Child to Adult	3
3850:430	Juvenile Delinguency	3
3850:450	Sociology of Mental Illness	3
Psychology		
3750:400	Personality	4
3750:420	Abnormal Psychology	4
3750:430	Psychological Disorders of Children	4
Social Work		
7750:410	Minority Issues in Social Work Practice	3
7750:451	Social Work and Child Welfare	3
7750:452	Social Work and Mental Health	3
7750:454	Social Work in Juvenile Justice	3
Multicultural	Education	
5500:482	Characteristics of Culturally Different Youth	3
Special Educ	ation	
5610:440	Developmental Characteristics of Exceptional Individuals	3
5610:446	Developmental Characteristics of Behaviorally Disordered Individuals	3
5610:459	Collaboration and Consultation in Schools and Community	3
5610:468	Advanced Behavioral Management	3

Re

Se

1 3

4

3

з

3

з

2 4 4

3

3

4

1

3 4

3

HOSPITALITY MANAGEMENT

Program

The Hospitality Management certificates in Culinary Arts, Hotel/Motel Management, and Restaurant Management are intended to meet the need of persons who are active or wish to become active in the hospitality industry and are seeking to acquire specific knowledge which will be of immediate use in their careers. The certificates are also of use to non-hospitality majors who wish to broaden their skills and employability by completing the required 32 credits of class and laboratory credits.

NOTE: The award of these certificates are not contingent upon completion of a degree program. All courses taken may be applied toward an associate degree in hospitality management.

Culinary Arts

2280:101	Introduction to Hospitality
2280:120	Safety and Sanitation
2280:121,2	Fundamentals of Food Preparation I, It
2280:230	Advanced Food Preparation
2280:232	Dining Room Service and Training
2280:233	Restaurant Operation and Management
2280:245	Menu, Purchasing and Cost Control
2280:261	Baking and Classical Desserts
2280:233 2280:245 2280:261	Restaurant Operation and Management Menu, Purchasing and Cost Control Beking and Classical Desserts

Hotel/Motel Option

2280:101	Introduction to Hospitality
2280:120	Safety and Sanitation
2280:121	Fundamentals of Food Preparation i
2280:160	Wine and Beverage Service
2280:232	Dining Room Service and Training
2280.237	Internship
2280:240	Systems Management and Personnel
2280:245	Menu, Purchasing and Cost Control
2280:256	Hospitality Law
2280:268	Revenue Centers
2280:278	Hotel Catering and Marketing

Restaurant Management Option

2280:101	Introduction to Hospitality
2280:120	Safety and Sanitation
2280:121	Fundamentals of Food Preparation I
2280:122	Fundamentals of Food Preparation II
2280:160	Wine and Beverage Service
2280:232	Dining Room Service and Training
2280:233	Restaurant Operation and Management
2280:237	Internship
2280:240	Systems Management and Personnel
2280:245	Menu, Purchasing and Cost Control
2280:256	Hospitality Law

INTERIOR DESIGN

Carolyn Albanese, M.S., Associate Professor

Requirements

The certificate of interior design is an interdisciplinary program between the School of Family and Consumer Sciences and the School of Art which qualifies the student as an interior design assistant. The interior design assistant is qualified by education and experience to assist clients with the selection and arrangement of interior furnishings, materials and space planning; perform the basic skills necessary to implement a design, including taking measurements, providing cost estimates, preparing drawings and business documents, and consulting with workrooms, installers, and other support specialists; and assist the professional interior designer. The certificate program is open to undergraduates in other disciplines as well as persons with baccalaureate degrees from The University of Akron or other accredited institutions. The certificate must be issued simultaneously with a baccalaureate degree or to those already holding a baccalaureate degree. Students interested in this program must meet with an academic advisor in order to sign a contract of study and obtain information on sequencing of required courses.

quired:		Credits
7100:131	Introduction to Drawing	3
7100:244	Color Concepts	3
7100:491	Architectural Presentations I	3
7100:492	Architectural Presentations	3
7400:158	Introduction to Interior Design	3
7400:225	Textiles	3
7400:258	Light in Man-Made Environments	3
7400:335	Specifications for Interiors II	3
7400:336	Principles and Practices of Design	. 3
7400:418	History of Interior Design I	4
7400:419	History of Interior Design II	4
7400:433	Senior Design Studio I	3
7400:434	Senior Design Studio III	3
7400:435	Decorative Elements in Interior Design	. 1
7400:497	Internship: Family and Consumer Sciences	3
	Total Hours Required	45
lect one of	f the following:	
Preservatio	on Track	
7400:436	Textile Conservation	3
7400:459	Senior Design Studio IV	3
7400:485	Seminar in Family and Consumer Sciences	3
Computer-	Assisted Design	
2940:210	Computer-Aided Drawing I	3
7100:185	Introduction to Computer Graphics	3
7400:257	AUTOCAD for Interior Designers	3
Business 1	Frack	
2520:101	Essentials of Marketing Technology	3
2520:212	Principles of Sales	3
7400:139	Fashion and Furnishings Industries	3

INTERNATIONAL BUSINESS

This certificate program provides students with the opportunity to enhance their appeal on the job market by providing basic knowledge in international business. It is especially appropriate for students pursuing non-business degrees who have an interest in using their education in an international environment. It is also a valuable means for post baccalaureate students to learn about international business.

Requirements:

A total of 15 credit hours are required for the certificate program. The student must complete 6 credits of required course work and 9 credits must be selected from the list of electives. To be granted this certificate, the student must complete at least 6 credits in addition to the requirements for any other major, minor, or certificate that has been earned.

Required — Complete both courses (6 credits)

6800:305	International Business	3
6800:405	Multinational Corporations	3
Electives —	Complete at least three courses (9 credits)	
6400:481	International Business Finance	3
6500:457	International Management	3
6600:385	International Marketing	3
6600:485	Global Sales Strategy	3
6800:421	International Business Practices	3
6800:495	Internship in International Business	1-3
6800:496	Special Topics in International Business	1-3

INTERNATIONAL DEVELOPMENT

The primary goal of the International Development Certificate is to broaden the understanding and strengthen the skills of students who plan careers that involve work in less developed parts of the world. It provides a multidisciplinary backgrounds for students who plan more advanced study leading to positions in the government or non-governmental sectors. It also provides a broad but focused background background for students planning to participate in the economies of developing countries through international business.

The program is open to students in good academic standing. Full-time, special or non-degree students may participate in the IDC program.

Requirements

The curriculum has five aspects: foundational knowledge, area focus, skills, language ability and an independent project. There are a total of 24 credits in the Certificate: Six from required courses (3004:201 Introduction to International Development and 3004:401 International Development Project) and 18 from electives. In choosing electives, it is the responsibility of the student to determine whether they have the appropriate prerequisites.

Program

Minimum 24 credits

Core (6 credits)

		0.00.00
3004:201	Introduction to International Development	3
3004:401	International Development Project	3
Electives	(6 credits)	
3250:450	Comparative Economic Systems	3
3250:460	Economic Development & Planning for LDCs	3
3250:461	Principles of International Economics	3
3350:450	Development Planning	3
3700:311	Developing States in World Politics	3
3700:326	Politics of Developing Nations	3
3700:363	Crime, Punishment and Politics: Comparative Perspectives	3
3700:392	Selected Topics in Political Science: Tourism & Development	3
3700:412	Global Environmental Politics	3
3850:321	Population	3
3870:370	Cultures of the World	3
3870:463	Social Anthropology	3
3870:472	Special Topics: International Business	3
6800:305	International Business	3
6800-421	International Business Practices	3

Global, Region and Area Focus (6 credits)

3350:353	Latin America	3
3350:360	Asia	3
3350:363	Africa South of the Sahara	3
3400:301	Mao's China	3
3400:416	Modem India	3
3400:473	Latin America: 20th Century	3
3400:476	Central America & the Caribbean	3
3700:323	Politics of China & Japan	3
3700:327	African Politics	3
3700:405	Politics of the Middle East	3

Skills (6 credits)

Students are expected to acquire a broad set of funtional skills that will allow them to read and critically evaluate quantitative and qualitative report materials relevant to their chosen area and interest. Students should chose skill courses in more than one disciplinary area.

3250:426	Econometrics	3
3350:405	Geographic Information Systems	3
3700:395	Internship in Government & Politics*	3
3700:440	Survey Research Methods	3
3850:301	Methods of Social Research I or II	3
3870:460	Qualitative Methods: Basis of Anthropological Research	3
6500:222	Quantitative Business Analysis I or II	3

Language Ability

It is the expectation that students will have or will obtain knowledge to the intermediate level of a foreign language appropriate to their area of interest. Each student should consult with the Director of the program to determine what language skills are needed in his or her specific case.

Project

Students seeking the International Development Certificate will develop their abilities to function in a foreign culture and to carry out a project by spending time abroad. Students are required to arrange an internship or other international experience with an institution, agency or firm through channels outside the certificate program, though the Director will provide advice if needed. They must consult with the Director to determine an appropriate period for their time abroad and provide a letter of affiliation from the institution, agency or firm to whom they are attached. During their time abroad, certificate candidates will complete a research project designed in conjunction with the Director of International Development Certificate Program. The successful report from this project constitutes the final requirement for the receipt of the ID certificate.

LATIN AMERICAN STUDIES

For information, contact the Department of Modern Languages at 330-972-7486.

Requirements

Credits

The student in the Latin American Studies Certificate Program will major in the respective disciplines: economics, geography, history, political science, sociology and Spanish.

In addition, the student will take 12 credits in the three separate disciplines chosen from the following list:

Political Science Credits 3700:425 Latin American Politics 3 History 3400:415 Latin America: National Origins 3 3400:416 Latin America: 20th Century 3 3400:417 United States, Latin America and Imperialism 3 3400:418 Mexico 3 3400:419 Central America and the Caribbean 3 Geography 3350:353 3 Latin America Sociology/Anthropology 3230.355 Indians of South America 3 3240:356 New World Prehistory 3 Economics 3250 460 Economic Development and Planning for Underdeveloped Countries 3

The student is also required to study three years of Spanish or the equivalent.

LEGAL ASSISTING

Admission Requirements:

Students interested in the certificate program must meet one of the following criteria in order to be admitted:

· Bachelor's degree or beyond;

· Associate degree;

Students may use this course only at the discretion of the Director, based on the nature of the internship

Graduation Requirements:

2.0 GPA in major;

2290:218

- Minimum of 32 credits as in curriculum outline;
- No grade below a C in major

•	Required o	ourse work includes	Credits
	2290:101	Introduction to Legal Assisting	3
	2290:104	Basic Legal Research and Writing	3
	2290:106	Business Associations	3
	2290:108	Real Estate Transactions	3
	2290:118	Probate Administration	4
	2290:220	Legal Assisting Internship	4
•	Students a	re required to take 12 hours from the following courses	
	2220:290	Special Topics – Legal Assisting	3-5
	2290:110	Tort Law	3
	2290:112	Family Law	3
	2290:204	Advanced Legal Research	3
	2290:214	Civil Procedures	3
	2290:216	Debtor-Creditor Relations	3

Students interested in a Probate emphasis shall take 2290:204, 2290:218, 2290:220, and two other courses Spring Semester.

Students interested in a Civil Litigation emphasis shall take 2290:204, 2290:214 and 2290:220 and two other courses of their choice during the Spring Semester.

LINGUISTIC STUDIES

Advanced Probate Administration

Arthur Palacas, Ph.D., Director

Requirements

Completion of six linguistically oriented courses as follows: the foundation course, two core courses and at least three elective courses. Three or more of the courses must be at the 300/400 level. (Subject to approval by the program director, other theoretically oriented linguistics courses may substitute for core courses.)

To obtain the certificate, the student must have at least two semesters of language. A student entering the program should discuss plans with the director.

Foundation (Required)

3300 371 Introduction to Linguistics

Core (Minimum of two of the following)

2220-461	Language and Culture	
3230.401		
3300:472	Syntax	
3600:481	Philosophy of Language	
7700:230	Speech and Language Development	
	or	
7700:430	Aspects of Normal Language Development	

Electives

3300:400	Anglo Saxon
3300:470	History of the English Language
3300:471	U.S. Dialects: Black and White
3300:473	ST: Teaching ESL: Theory and Method
3300:489	ST: Sociolinguistics
3460:460	Artificial Intelligence and Heuristics Programming
3460:470	Automata, Computability and Formal Language
3580:405,6	Spanish Linguistics
3600:170	Introduction to Logic
3600:374	Symbolic Logic
3600:418	Analytic Philosophy
3600:471	Metaphysics
5200:335	Teaching of Language Arts
5500:481	Multicultural Education in the United States
7600:325	Intercultural Communication
7700:210	Introduction to Clinical Phonetics
7700:101	Introduction to ASL

MANUAL COMMUNICATION

Mona S. Klingler, M.A., Coordinator

This certificate, designed for those who use American Sign Language to communicate with the hearing impaired population, is open to undergraduate majors in any discipline as well as persons with a baccalaureate degree from the University or any other accredited institution. This certificate may also be earned independent of earning a degree.

Requirements

3

3

3

3

3

3

3

3 3 3

з

з

з

•		
7700:101	Introduction to American Sign Language	3
7700:102	American Sign Language I	3
7700:120	Introduction to Audiology/Aural Rehabilitation	4
7700:121	Aspects of American Sign Language	2
7700:201	American Sign Language II	3
7700:202	Conversational American Sign Language	3
7700:222	Survey of Deaf Culture in America	2

Credits

Note: For students majoring in Speech-Language Pathology and Audiology, 7700:140 and 7700:240 (departmental required courses) will be substituted for 7700:120.

MARKETING AND SALES TECHNOLOGY

This program is designed for students who desire a formal, structured program in the field of Marketing and Sales but do not wish to pursue an associate or baccalaureate degree. In addition, students may have already received an associate or baccalaureate degree in another area and be interested in receiving formal training in the marketing segment of their career field.

Requirements

-		
2420:211	Basic Accounting I	3
2520:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
2520:204	Services Marketing	3
2520:206	Retail Promotion and Advertising	3
2520:212	Principles of Sales	3
2520:254	Sales Management Technology	3

MARKETING AND SALES TECHNOLOGY: ADVERTISING

This program is designed for students who desire a formal, structured program in the field of Advertising but do not wish to pursue an associate or baccalaureate degree. In addition, students may have already received an associate or baccalaureate degree in a different area and be interested in receiving formalized training in advertising due to the pervasiveness of the field in virtually all areas of commerce.

Requirements

2020:224	Writing for Advertising	4
2520:101	Essentials of Marketing	3
2520:103	Principles of Advertising	3
2520:204	Services Marketing	3
2520:221	Advertising Campaign	3

MEDICAL FRONT OFFICE

This one-year certificate for persons with or without college training and/or office experience can enhance career opportunities in the medical field, as factors contributing to continued job growth in this industry include the increase of our aging population, which will continue to require more services.

A student will take 34 credit hours of core courses.

Students will learn how to perform a variety of clerical front-office duties in the medical office environment.

Requirements:		Credits
2420:211	Basic Accounting I	3
2540:119	Business English	3
2540:151	Intermediate Word Processing	3
2540:256	Medical Office Procedures	3
2540:263	Business Communications	3
2740:120	Medical Terminology	3
2740:240	Medical Transcription I	3
2740:241	Medical Records	3

MEDICAL TRANSCRIPTIONIST

This one-year certificate for persons with previous or no college training and/or office experience can enhance career opportunities in the medical field, as the demand for medical transcriptionists is high. A student will take 31 credit hours of core courses. Students will learn an advanced level of transcription skill for the transcription of letters, chart notes, history and physical examination reports, consultations, emergency room reports, operative reports, discharge summaries, lab-oratory reports, diagnostic studies, radiology and pathology reports.

Requirements:

2540:119	Business English	3
2540:129	Information/Records Management	3
2540:151	Intermediate Word Processing	. 3
2540:256	Medical Office Procedures	3
2540:263	Business Communications	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:240	Medical Transcription I	3

MOTION AND CONTROL SPECIALIZATION

The primary purpose of the motion and control certificate program is to provide the graduating engineers with a focused expertise in motion and control and to furnish the necessary tools in order to enable them to follow the changes in technology after graduation. In addition, the program will also serve the practicing engineers and life-long learners to come back to school and refresh their skills using the certificate program proposed here. Mechanical engineering students who may choose this certificate program with special emphasis in motion and control will take all mechanical engineering electives in motion and control

Requirements:

4600:444/544	Robot, Design, Control and Application	3
4600:442/542	Industrial Automatic Control	3
4600:670	Integrated Flexible Manufacturing Systems*	3

OFFICE SOFTWARE SPECIALIST, OFFICE ADMINISTRATION

This certificate will instruct students to use the most popular software packages used in today's modem offices. Also, students will gain valuable written and oral communications skills required by employers. All credits are applicable to an Associate Degree in Office Administration.

First Semester:		Credits
2440:140	Internet Tools	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:151	Intermediate Word Processing	3
	or	
2540:253	Advanced Word Processing	3
2540:129	Information/Records Management	3
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	
Total Credit Hour	s: 18	

Second Semester:

2540:263	Business Communications	3
2540:271	Desktop Publishing	3
2540:270	Business Software Applications	4
2540:273	Computer Based Graphic Presentations	3
Total Credit Hour	s: 13	
Grand Total Credi	it Hours: 31	

Required bridge courses:

2440:101 2440:102	Fundamental Computer Concepts Introduction to Windows	1 1
2440:103	Software Fundamentals	2
2540:140	Keyboarding for Non-majors	2

Prerequisites:

Students must pass department placement exams or complete bridge courses (as needed as a result of the department placement exam) before enrolling in Office Administration course (2540).

OFFICE ADMINISTRATION -GENERAL OFFICE ASSISTANT

Designed for students who possess beginning keyboarding skills and want to obtain entry-level office skills in two semesters. All credits apply to an associate degree in Office Administration.

2440:103	Software Fundamentals	2
2540:119	Business English	3
2040:240	Human Relations	
	or	
2040:251	Human Behavior at Work	3
2540:129	Information/Records Management	3
2420:170	Applied Mathematics for Business	3
2540:143	Microsoft Word Beginning	2
2440:102	Introduction to Windows	1
2540:151	Intermediate Word Processing	3
2540:270	Business Software Applications	4
2540:281	Editing, Proofreading, & Transcription	3
2540:121	Introduction to Office Procedures	3

OFFICE SUPERVISION

This one-year certificate for persons with previous college training and/or extensive office experience can add supervisory skills to enhance career opportunities. A student will take 18 credit hours of core courses and an additional 14 prescribed elective credits. Students will learn management skills, refine speaking and writing abilities, and focus on understanding and developing the human resources of an organization.

Requirements

-		
2040:251	Human Behavior at Work	3
2420:103	Essentials of Management Technology	3
2420:202	Elements of Human Resource Management	3
2540:129	Information/Records Management	3
2540:263	Business Communications	3
	Software Elective	3
Electives:		
2040:240	Human Relations	3
2420:104	Introduction to Business	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:265	Women in Management	3
2540:289	Career Development for Business Professionals	3
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	3

PAN-AFRICAN STUDIES

For information, contact the Interdisciplinary Office, located in Leigh Hall 201, 330-972-7008.

Requirements

To satisfy the requirements for the certificate, a student must complete at least 15 semester credits and five courses with a minimum 2.30 GPA from the list of elective courses or other courses identified as acceptable by the director. The requirements are as follows:

Required courses (6 credits):

3002:201	Introduction to Pan-African Studies	3
3400:260	African-American People of the United States 1492-1877 or	3
3400:261	African-American People of the United States 1877-present	3
Elective (Courses (9 credits)	
2040:254	The Black Experience from 1619 to 1877	2
2040:255	The Black Experience since 1877	2
3002:301	The Civil Rights Movement in America 1945-1974	3
3002:401	General Seminar in Pan-African Studies	3
3002:420	Special Topics in Pan-African Studies	1-3
3002:498	Independent Study	1-3
3300:350	Black American Literature	3
3300:389	Special Topics: African-American Novel	3
3300:389	Special Topics: African-American Drama	3
3300:471	United States Dialects: Black and White	
3300:689	Special Topics: Seminar Wright/Ellisort/Baldwin	3
3350:363	Africa South of the Sahara	3
3440:390	World Civilizations: Africa	2
3400:340	Special Topics: African Experiences in Latin America	3
3400:468	African-American Social and Intellectual History	3
3700:327	African Politics	3
3850:421	Racial and Ethic Relations	3
7750:270	Poverty in the United States	3
7750:276	Introduction to Social Welfare	4
7750:410	Minority Issues in Social Work	3
7750:455	Black Family Issues	3

A student undertaking the Pan-African Studies Certificate Program must have prior consultation with the director of Pan-African Studies.

Only students entering the certificate program after Fall 1996 will receive a certificate entitled Pan-African Studies. Students entering the program prior to Fall 1996 will receive a certificate entitled African-American Studies.

PARENT AND FAMILY EDUCATION

Requirements

This certificate is intended for individuals who wish to enhance their knowledge of parenting and family life, study issues relevant to parenting and family life and develop skills useful in working with parents and families. The certificate may be added to any undergraduate degree program; it may also be completed by nonfamily or non-child development majors.

Program

Core		
Complete the	following:	Credits
7400:265	Child Development	3
7400:360	Parent-Child Relations	3
7400:496	Parent Education	3
F 1 41		

Electives

Credits

Students must successfully complete six credits of coursework selected from the various departmental courses listed below. These credits shall be chosen from departments outside the student's discipline.

Family and Consumer Sciences:

ranna con		
7400:201	Courtship, Marriage and Family Relations	3
7400:255	Fatherhood: The Parent Role	3
7400:362	Family Life Management	3
7400:390	Family Relations: Middle and Later Years	3
7400:401	Family Life Patterns: Econ. Deprived Home	2
7400:404	Adolescence: Family Context	3
7400:406	Family Financial Management	3
7400:440	Family Crisis	3
7400:442	Human Sexuality	3
Social Work:		
7750:270	Poverty in the U.S.	3
7750:276	Intro to Social Welfare	4
7750:455	Black Family Issues	3
Psychology:		
3750:230	Developmental Psychology	4
3750:335	Dynamics of Personality	4
3750:430	Psychological Disorders of Children	4
Sociology:		
3850:340	The Family	3
3850:412	Socialization: Child to Adult	3
Anthropology:		
3870:251	Human Diversity	3
Special Education	on:	
5610:460	Family Dynamics & Communication in Education	3
Multicultural Ed	ucation:	
5500:481	Multi-Cultural Education in the U.S.	. 3
5500:482	Charac. of Culturally Diverse Populations	3

PIANO PEDAGOGY

Requirements

This certificate program in Piano Pedagogy is designed for students who wish to expand or update their skills with exposure to new methods and materials. The program can be completed in one year of full time enrollment or two years of part time enrollment. This certificate can also be completed independent of a degree program. Students must pass music placement tests and play a piano audition for admission into the program.

Program

Complete the following:		Credits
7500:152	Theory I	3
7500:152	Theory II	3
7500:154	Music Literature I	2
7500:155	Music Literature II	2
7500:271	Piano Pedagogy I	2
7500:272	Piano Pedagogy II	2
7500:497	Independent Study	2
7520:125	Applied Piano	8

PLANNING WITH AN EMPHASIS ON CITY OR REGIONAL RESOURCE STUDIES

Robert B. Kent, Ph.D., Department Chair

Requirements

This program is intended to enhance understanding of the planning function and to increase the research and analytical abilities of the person preparing for work in, or who is currently engaged in, city, urban, regional, environmental and resource planning. The program is open to the undergraduate, as well as a person with a baccalaureate degree, employed in local agencies doing related work, e.g., urban renewal, community redevelopment, community action, environmental protection and private industry. The person with a degree can enroll as a postbaccalaureate or special student.

Program

- Employment or internship in a planning agency or in an office engaged in related work; or a sincere intention to pursue a professional career in some aspect of government work or planning after graduation.
- A statement by the applicant giving reasons for wishing to participate in the planning certificate program.

Core

Electives

Each student's program (subject to the program director's approval) is to include six elective courses distributed between professional, technical and research offerings. Three courses will be from the professional listing and three from the technical-research listing. In consultation with the program director, elective courses will be selected from University offerings either in the city planning or regional resource planning emphasis areas. Similar courses completed at this or other universities, up to five years prior to admission to candidacy, may be approved by the director. The intent of the elective requirements is to facilitate the development of a diverse perspective which is significant for a person who will be or is already engaged in planning for present and changing future urban, regional, environmental, resource, energy and societal needs. The truly comprehensive planner must have academic acquaintance with a variety of professional and technical approaches to cope with social, geographical, physical design, economical and governmental problems. Selecting courses that duplicate or continue interests already well established in a student's background will be discouraged.

Project

Upon completion of the core and elective course requirements, the student will take 3350:385 Planning Seminar (one credit). In this seminar the student will produce a final paper covering a city or regional resource planning topic chosen by the student and approved by the director of the program. Each project will be presented to the seminar class and critically analyzed.

A grade of "C" or better is required in all courses undertaken as part of the certificate program. In the five core courses an average grade of "B" is required.

POLYMER ENGINEERING SPECIALIZATION

The College of Engineering and the College of Polymer Science and Polymer Engineering allow for a specialization for the mechanical engineering student. Students may earn a Polymer Engineering Specialization Certificate by satisfying the following requirements

Requirements

Choose one o	f the following three Polymer courses:	Credits
9871:401	Introduction to Elastomers	3
	or	
9871:402	Introduction to Plastics	3
	or	
9871:407	Polymer Science	3
and the follow	ring two courses:	
4700:425	Introduction to Blending and Compounding of Polymers	3
4700:427	Introduction to Molding Technology	3

POSTSECONDARY TEACHING

Sandy Coyner, Ph.D., Coordinator

Requirements

This certificate program in postsecondary teaching is a special course of study with the College of Education to serve the practicing or prospective postsecondary instructors in a variety of postsecondary institutions. Persons are eligible for admission to the Certificate in Postsecondary Teaching if they have been fully admitted to the University of Akron to study as a full-time undergraduate or postbaccalaureate students in any department of the University. Individuals who already hold undergraduate or graduate degrees may also pursue this certificate.

Student shall seek admission to this program by filling out an application with the Program Coordinator. The student will schedule courses with the assistance of the Program Coordinator. All accepted course work must be no older than six years at the time of completion of the certificate. Only undergraduate credit may be used for an undergraduate or post-baccalaureate certificate. Any course substitutions must be made with the advisor's prior written approval. Students must have a "B" or better in all certificate course work to receive this certificate. Students must have an undergraduate GPA of 2.75 or higher to be accepted. Enrollment will be limited to space available. All course work must be completed within six years.

Program

To participate in the program, the student should:

- Be formally admitted to The University of Akron as an undergraduate or postbaccalaureate student.
- Have a 2.75 or higher GPA;
- Make written application to the Program Coordinator;
- Receive written notification from the Program Coordinator;
- Consult with the Program Coordinator to formulate a program of study;
- 5400:401, Learning with Technology, must be completed satisfactorily before
- all other courses are taken; and
- 5400:430 is a prerequisite to 5400:435

Core Minir

linimum 19 credits:		Credits
5400:400	Postsecondary Learner	3
5400:401	Learning with Technology	1
5400:420	Postsecondary Instructional Technology	3
5400:430	Systematic Curriculum Design for Postsecondary Instruction	3
5400:435	Instructional Techniques in Postsecondary Education	3
5400:480	Special Topics: Introduction to Postsecondary Instruction	3
5400:495	Postsecondary Education Program	3

Notes:

5400:401 is required before any other 5400 courses; may be taken with first courses. The practicum is the last course taken. This course cannot be taken until all other Certificate courses have been completed with a 3.0 or better. 5400:430 must be taken before 5400:435. 5400:495 is the last certificate course taken.

PROFESSIONAL COMMUNICATION

Joseph F. Ceccio, Ph.D.; Dudley Turner, Ph.D., Co-directors

Requirements

The program will help meet our technological society's growing need for educated people who can develop sophisticated strategies for effective communication of business and technical information. People in the business community increasingly depend on communication to solve complex management, sales and information processing problems. The communication demands of business and industry are significant, and in many ways, different from those dealt with in traditional courses and majors. Undergraduates in various fields and those who already possess a baccalaureate degree will wish to study specifically to meet communication demands. A formal certificate will recognize their preparation for handling the communication needs of business and industry. This certificate must be earned concurrently with an undergraduate (associate or bachelor's) degree. A student who already possesses an undergraduate degree may directly pursue this certificate.

Program

3300:390	Professional Writing I	3
3300:391	Professional Writing II	3
7600:309	Public Relations Publications	3
7600:345	Business and Professional Speaking	3

Because all four courses have prerequisites, students should consult course descriptions in **Section 8** for each course description.

PROFESSIONAL SELLING

Jon M. Hawes, Ph.D., Coordinator

Requirements

A total of 15 credit hours are required for the certificate program. The student must complete 9 credit hours of required courses and 6 credit hours must be selected from a list of electives. To be granted this certificate, the student must take at least 6 credit hours in addition to the requirements for any other major, minor, or certificate that has been earned. Students should contact the Office of Undergraduate Studies in Business Administration for information on transfer credit and to request that notation of the certificate be included on the student's transcript upon completion of the program.

Program

Required: Complete all 9 credits		Credits
6600:275	Professional Selling	3
6600:300	Marketing Principles	3
6600:475	Business Negotiations	3
Elective: Com	plete any 6 credits	
6600:350	Integrated Marketing Communications	3
6600:370	Purchasing	3
6600:480	Sales Management	3
6600:485	Globel Sales Strategy	. 3
7600:235	Interpersonal Communication	3
7600:252	Persuasion	3

REAL ESTATE

Requirements

Pre-licensing Courses – Real Estate Sales

Successful completion of the four (4) state required prelicensing courses prepares and permits students to sit for the Division of Real Estate state licensing exam in real estate sales.

Certificate Program and Prelicensing - Real Estate Broker

The certificate program is designed to serve the needs of the practicing real estate professional and prospective real estate broker. Course offerings are designed to allow a student to earn a Certificate in Real Estate and/or complete the course educational requirements to become licensed as a real estate broker. To receive the certificate, the student must complete the required courses with a minimum 2.00 grade-point average. A minimum of 12 credit hours must be earned in the University's Real Estate Program.

Admission

All pre-licensing and certificate applicants must apply to the University and meet its admission requirements. The person wishing to pursue a certificate must sign a contract with the Community and Technical College which will indicate the required course of study and such work that may be transferred from real estate programs outside the University.

Program

Pre-licensi	ing - Sales	Credits
2430:105	Real Estate Principles	3
2430:185	Real Estate Law	3
2430:245	Real Estate Finance	2
2430:255	Valuation of Residential Property	2
Certificate	and Pre-Licensing - Broker	
2430:105	Real Estate Principles	3
2430:185	Real Estate Law	3
2430:245	Real Estate Finance	2
2430:255	Valuation of Residential Property	2
2430:265	Real Estate Brokerage	2
2430:275	Real Estate Projects	2
2520:212	Principles of Sales	4
Electives	Minimum of one cour se	
2040:242	American Urban Society	3
2420:170	Applied Mathematics for Business	3
2420-202	Elements of Human Resource Management	3

		~
2420:202	Elements of Human Resource Management	3
2430:235	Commercial Real Estate	2
2440:103	Software Fundamentals	3
2520:103	Principles of Advertising	3

RESIDENTIAL BUILDING TECHNOLOGY

Requirements

A minimum of 16 hours is required.

The certificate program in Residential Building Technology is aimed at providing knowledge and skills to anyone planning to work in the building construction industry. This certificate program may be earned independently of earning a degree. All coursework can be applied to an A.A.S. degree in Surveying and Construction Engineering Technology or a B.S. degree in Construction Engineering Technology. The person with a degree can enroll as a postbaccalaureate or special student.

2990:231	Building Construction	2
2990:245	Cost Analysis and Estimating	3
2990:310	Residential Building Construction	3
2990:356	Safety in Construction	2
2990:410	Residential Building Design	3
2990:498	Independent Study in Construction (see advisor)	3

For further information, contact:

Surveying & Construction Program Director Community & Technicall College The University of Akron Akron, OH 44325-6104 330-972-7059

RETAIL MARKETING

Dale M. Lewison, Ph. D., Coordinator

This certificate program provides students with the opportunity: (1) to learn the basic concepts, processes, and practices of retail marketing, (2) to develop the foundation skills needed to operate a retail business, and (3) to understand the workplace competencies needed to be successful in the retailing industry. This certificate is especially appropriate for students pursuing a non-business degree with an interest in working within the retailing industry.

Requirements

A total of 15 credit hours are required for the certificate program. The student must complete 12 credit hours of required courses plus 3 credit hours of electives. To be granted this certificate, the student must complete at least 6 credits in addition to the requirements for any other major, minor or certificate that has been earned.

Program

•	Required: Complete all courses - 12 credits		Credits
	6600:300 6600:450	Marketing Principles Strategic Retail Management	3 3
•	 Electives: Complete one course - 3 credits 		
	6600:350	Integrated Marketing Communications	3
	6600:355	Buyer Behavior	3
	6600:390	Principles of Supply Chain Management	3
	6600:440	Product and Brand Management	3

RUSSIAN AREA STUDIES

For information, contact the Department of History, located in Olin Hall 201, 330-972-7006.

Requirements

To obtain a certificate in Russian Area Studies, the undergraduate will satisfy the requirements for a baccalaureate major in the field of study of his or her choice. In addition the student will complete two years of Russian language(14 credits) and will also complete 12 additional credits in courses dealing with the study of Russia. These courses may be selected from the following list:

Economics

3250:450/550	Comparative Economic Systems	3
Geograph	y	
3350:358	U.S.S.R.	3
History		
3400:458/558	Russia to 1801	3
3400:459/559	Russia since 1801	3
Political S	cience	
3700:300	Comparative Politics	4
3700:322	Politics of Post Communist States	3

SMALL BUSINESS MANAGEMENT

This program is designed to address the expressed needs of small business students, many of whom are presently, or soon will be, small business owners and are interested in acquiring specific knowledge that will help them in their business immediately. This program would be valuable for many non-business majors who could benefit by this exposure to business concepts. The emphasis is on serving the objectives of those students seeking autonomy in exercising their initiative and ambition, including both traditional and non-traditional students.

The awarding of this certificate is not contingent upon completion of a degree program.

2420:117	Small Business Development	3
2420:118	Financial Management and Planning for the Small Business	4
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2420:227	Entrepreneurship Projects	4
2420:280	Essentials of Business Law	3
2440:103	Software Fundamentals	2
2540:119	Business English	3

SUPERVISION AND MANAGEMENT

The Supervision and Management Certificate Program is aimed at providing knowledge and skills to the new and existing supervisor as well as to the individual who aspires to a supervisory position. The certificate program has been carefully designed to be flexible in order to meet the needs of various organizations and individuals. This program is in response to what many employers in the area have identified as a need that the Community and Technical College could help them meet. This certificate may be earned independent of earning a degree.

A minimum of 21 semester hours is required as follows:

Interpersonal Skills

Interpersonal Skills		Credits
2040:240	Human Relations	3
2040:251	Human Behavior at Work	3
One course mus	at be taken from each of the following three categories:	

Management Theory and Skills

2420:103	Essentials of Management Technology	3
2880:100	Basic Principles of Manufacturing Management	4
Commur	nication Skills	
2020:121	English	4
2020:222	Technical Report Writing	3
2540:263	Business Communications	3
Math		
2030:151	Elements of Math I	2
2030:152	Elements of Math II	2
2420:170	Applied Mathematics for Business	3
In addition to	the above courses, a minimum of 6 credits m	ust be compl

eted from the following:

2040:247	Survey of Basic Economics	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2440:103	Software Fundamentals	2
2540:265	Women in Management	3
2880:210	Controlling and Scheduling Production	2
2880:232	Labor Management Relations	3
2880:241	Introduction to Quality Assurance	3

SURVEYING TECHNOLOGY

The certificate program in Surveying Technology may be earned independent of any degree program. This program has been designed so that BSCE majors or graduates can meet the minimum education requirements in surveying course work for registration as a Professional Surveyor. It is also designed to meet the education requirements for Technical Certification through the American Congress on Surveying and Mapping, National Society of Professional Surveyors. A minimum of 18 credits are required. All courses taken may be applied toward an A.A.S. degree in Surveying and Construction Engineering Technology and/or B.S. degree in Surveying and Mapping Technology.

The following 10 semester hours are required.

2980:101	Basic Surveying I
2980:102	Basic Surveying II (or equivalent)
2980:228	Boundary Surveying
2980:355	Computer Applications in Surveying

A minimum of 8 semester hours selected from the following (BSCE majors should consult with the Surveying Program Director to ensure that all State Board of Registration requirements are met).

2980:123	Surveying Field Practice	2
2980:222	Construction Surveying	3
2980:225	Advanced Surveying	3
2980:310	Survey Computations & Adjustments	2
2980:315	Boundary Control & Legal Principles	3
2980:415	Legal Aspects of Surveying	3
2980:421	Subdivision Design	3
2980:422	GPS Surveying	2
2980:426	History of Surveying	2

For further information, contact:

Surveying & Construction Program Director, Community & Technical College, The University of Akron, Akron, OH 44325-6104; 330-972-7059

TEACHING ENGLISH AS A SECOND LANGUAGE[†]

Kenneth J. Pakenham, Ph.D., Director

Requirements

This program is intended for those who seek training in the teaching of English as a second language (ESL) at the elementary or high school level or who wish to obtain an initial qualification in teaching ESL in order to teach in settings other than the Ohio public school system. For Ohio certification in teaching ESL, see TESOL Validation requirements in Section 4 of this Bulletin under the College of Education.

The program is designed to introduce the student to the central issues in the theory and practice of teaching English to non-native speakers through courses in modern and applied linguistics, in second language pedagogy and in related disciplines.

Students who do not have English as a native language must demonstrate adequate proficiency in English with a valid TOEFL score of at least 550.

Program

C

2

2

3

3

This certificate requires the completion of four core courses and two elective courses for a minimum of 18 credits.

Core		Credits
3300:473	Special Topics: Teaching ESL: Theory and Method	3
3300:489	Special Topics: Grammatical Structures of English	3
5500:481	Multicultural Education in the U.S.** or	3
3300:489	Special Topics: Sociolinguistics**	3
5500:487	Techniques for Teaching ESL	4
Electives		
3300:371	Introduction to Linguistics	3
3300:470	History of the English Language	3
3300:472	Syntax	3
3300:489	Special Topics: Sociolinguistics‡	3
3580:405	Spanish Linguistics	4
5500:485	Teaching Language Literacy to Bilingual Students	4
7600:325	Intercultural Communication	3
7700:230	Language Science and Acquisition	3
7700:430	Aspects of Normal Language Development	3

TECHNICAL AND SKILLS TRAINING

Contact Dr. Qetler Jensrud, Coordinator, (Qetler@uakron.edu) for more information

This certificate program in technical and skills training is a special course of study within the College of Education to serve the practicing or prospective business and/or industrial-technical trainer. Persons are eligible for admission to the Certificate in Technical and Skills Training if they have been fully admitted to The University of Akron to study as full-time undergraduate or post-baccalaureate students in any department of the University. Individuals who already hold undergraduate or graduate degrees may also pursue this certificate.

Students shall seek admission to this program by filing an application with the program coordinator. The student will schedule courses with the assistance of an advisor in the Postsecondary Technical Education Program. All accepted course work must be no older than six years at the time of completion of the certificate. Only undergraduate credit may be used for an undergraduate or post-baccalaureate certificate. Any course substitutions must be made with the advisor's prior written approval. Students must have a "B" or better in all certificate course work to receive this certificate. Students must have an undergraduate GPA of 2.75 or higher to be accepted. Enrollment will be limited to space available. All course work must be completed within six years.

The awarding of this certificate is not contingent upon completion of a degree program. Undergraduate certificate programs require a 2.00 grade-point average; graduate certificate programs require a 3.00 grade-point average.

Choice to be decided in consultation with the program director. May not be taken both as an elective and as a core course.

Admission

To participate in the program, the student should:

- Be formally admitted to The University of Akron as an undergraduate or postbaccalaureate student;
- Have a 2.75 or higher GPA.
- Make written application to the program coordinator;
- Receive written notification from the program coordinator;
- Consult with a Postsecondary Technical Education Program Advisor to formulate a program of study;
- 5400:401, Learning with Technology, must be completed satisfactorily before all other courses are taken; and
- 5400:430 is a prerequisite to 5400:435.

Requirements

Minimum:	19 Credits	Credits
5400:400	Post-secondary Learner	3
5400:401	Learning with Technology	1
5400:415	Training in Business & Industry	3
5100:420	Introduction to Instructional Computing	3
5400:430	Systematic Curriculum Design for Postsecondary Instruction	3
5400:435	Systematic Instructional Design in Postsecondary Education	3
5400:495	Postsecondary Education Practicum	3

NOTES: 5400:401 is required before any postsecondary technical education courses; may be taken with first courses. The practicum is the last course taken. This course cannot be taken until all other Certificate courses have been completed with a 3.0 or better. 5400:430 must be taken before 5400:435.

TRANSPORTATION STUDIES

The certificate program in Transportation Studies is aimed at developing technical knowledge and skills in the area of freight transportation management.

2560:110	Principles of Transportation	3
2560:118	Transportation Rate Systems	3
2560:221	Traffic and Distribution Management	3
2560:222	Microcomputer Applications in Transportation	3

In addition to the above core, a minimum of six semester credits must be completed from the following:

2560:115	Motor Transportation	3
2560:116	Air Transportation	2
2560:117	Water Transportation	2
2560:224	Transportation Regulation	3
2560:227	Transportation of Hazardous Materials and Waste	2

This certificate program in Transportation Studies may be earned independent of earning a degree.

WOMEN'S STUDIES

For information, contact the Interdisciplinary Office, located in Leigh Hall 201, 330-972-7008.

Interdisciplinary and personalized, the Women's Studies certificate fosters a critical approach to knowledge about women; at the core of its intellectual agenda is diversity. By focusing on cultural practices that have largely excluded and devalued differences in gender, sexual orientation, ethnicity, race, and class, Women's Studies prepares students to appreciate and act in a pluralistic world. The Women's Studies certificate integrates scholarship and research on women and gender from literature, psychology, history, sociology, and communication. Students are challenged to debate assumptions, explore divergent viewpoints, and discover the partial and often self-interested emphases of our society's most powerful institutions – family, church, academia, business, and government.

The Women's Studies Program helps students to evaluate what they have been taught and, most importantly, it empowers them to claim their educations – ones not readily available in the traditional university curricula – and to work for social justice after their educations. Students find their own voices and develop the esteem necessary to articulate their own views. Out of such opportunities, a student culture of respect and tolerance emerges to support lasting communities that value and promote individual worth, collective action, and intellectual courage.

Students may enroll in any Women's Studies courses and/or make an appointment with the director to discuss a plan of study. Students need not be enrolled in the certificate program to take Women's Studies courses. This certificate may be earned independently of a degree.

Admission

To participate in the program, the student must:

- Be formally admitted to The University of Akron as 1) an undergraduate seeking a baccalaureate degree; 2) a postbaccalaureate student; or 3) by special admission for a free-standing certificate.
- Make written application to the program countersigned by the student's major academic adviser.
- Receive written notification of admission from the Director of the Women's Studies Program.
- Consult with the Director of the Women's Studies Program to formulate a program of study.

Credits

Program

Requirements

Total Credits Required:		19
Core:		
1840:300	Introduction to Women's Studies	3
1840:490	Women's Studies Lecture Series*	3
1840:480	Feminist Theory*	3
	or	
1840:493	Individual Studies in Women*	

Electives: 12 credits (two courses 300-400 level).

 One course from each of the following three areas: humanities, social sciences, fine and applied arts, and a second cross-listed course from any area.

Humanities

Feminist Theory*	3
Individual Studies on Women* 1	-3
Drama Appreciation: Women in Modern Drama	3
Women in Modern Novels	3
Popular Culture: Writing about Race and Gender	3
20th Century Women Writers*	3
Philosophy of Feminism	3
Ces	
Women in Modern Europe	3
African-American Women's History	3
Women in the U.S.	3
Soviet and U.S. Women in the 20th Century	3
Women in Revolutionary China*	3
Special Topics: Popular Culture, Cultural Theory and Historical Change*	3
Special Topics: Women in Politics	3
Psychology of Women	4
The Sociology of Gender	3
Sociology of Women*	3
	Feminist Theory* Individual Studies on Women* Individual Studies on Women in Modern Drama Women in Modern Novels Popular Culture: Writing about Race and Gender 20th Century Women Writers* Philosophy of Feminism CCBS Women in Modern Europe African-American Women's History Women in the U.S. Soviet and U.S. Women in the 20th Century Women in Revolutionary China* Special Topics: Popular Culture, Cultural Theory and Historical Change* Special Topics: Women The Sociology of Gender Sociology of Women*

Fine and Applied Arts

/100:401	Women in Art*	3
400:201	Courtship, Marriage, and Family Relations	3
7400:442	Human Sexuality	3
7600:408	Women, Minorities and News*	3
750:411	Women's Issues in Social Work Practice*	3
750:480	Special Topics: Gay and Lesbian Issues*	3

Electives in Education, Institute for Life-Span Development, Community and Technical College, and Women's Studies Workshops

- 3
З
3
3
З
1.3
1-4
3

* Available at the graduate level.



Research Centers and Institutes

Research Centers and Institutes

University Research Council

Constance B. Bouchard, Ph.D., History

Roger Creel, Ph.D., Dean, Buchtel College of Arts and Sciences Frank Kelley, Ph.D., Dean, College of Polymer Science and Polymer Engineering

S. Graham Kelly, Ph.D., Interim Dean, College of Engineering Ted Mallo, J.D., Vice President and General Counsel; Secretary, Board of Trustees

George R. Newkome, Ph.D., Vice President for Research and Dean, Graduate School, Oelschlager Professor of Science and Technology, Chair Isadore Newman, Ph.D., Education; Associate Director, Life Span Development and Gerontology

Gerald M. Parker, M.A., Director, Research Services and Sponsored Programs; Secretary, ex officio

Mark P. Tousia Dh. D. Casialaru

Mark B. Tausig, Ph.D., Sociology

James L. White, Ph.D., Director, Institute of Polymer Engineering

The University Research Council is responsible for encouraging, supporting, and making recommendations pertaining to sponsored and contractual research carried out at the University's departments, centers, and institutes. The council consists of the Vice President for Research and Dean, Graduate School, the Director of Research Services and Sponsored Programs, representatives of the Faculty Senate, various college deans and institute directors, and General Counsel. Sponsored research and Dean, Graduate School and the Director of Research Services and Sponsored Programs.

Ray C. Bliss Institute of Applied Politics

John C. Green, Ph.D., Director

The Ray C. Bliss Institute of Applied Politics is a public education and research adjunct of Buchtel College of Arts and Sciences. The broad purposes of the institute, in keeping with the career of its namesake, Ray C. Bliss, are: to give all citizens, and particularly students, an opportunity to learn how to become active and competent in political life; to help maintain a tradition of ethical public service in politics; to foster useful relationships between applied politics and political science; to promote public comprehension of political organizations and the requirements for their effectiveness; and to improve understanding of continuity and change in American political institutions.

Institute for Biomedical Engineering Research

Stanley Rittgers, Ph.D., Director

This institute was established in 1979 to promote interdisciplinary studies in the rapidly growing areas of knowledge which overlap the fields of biology and medicine, on the one hand, and engineering and the physical sciences, on the other. It conducts seminars, courses and degree programs in biomedical engineering in association with the College of Engineering and individual departments.

In addition to its research and educational functions, the institute provides a research service to local hospitals and industry, as well as to private and government agencies. The premise for this program is that the combined resources of the University, Northeastem Ohio Universities College of Medicine and affiliated organizations will often permit more cost-effective solutions than would be possible by an individual or group doing the research independently.

The work of the institute is carried out by faculty of the Department of Biomedical Engineering in association with "members" selected from the faculties of The University of Akron and Northeastern Ohio Universities College of Medicine, as well as from the ranks of area physicians, engineers and scientists. The institute and the department occupy the third floor of the Olson Research Center on the north edge of the campus.

Center for Conflict Management

For information, contact the office, 201 Leigh Hall, 330-972-6513.

The Center for Conflict Management provides students with an opportunity for an interdisciplinary program of study in resolving and managing conflicts in the areas of Business/Economics/Labor, Family/Community and the International arena. Course programs draw on the resources of a wide spectrum of the University's academic departments. Upon completion of all selected courses, students receive not only academic credits for the courses but a Certificate for Conflict Management in their area of specialization. Part of Buchtel College of Arts and Sciences, the Center also sponsors workshops for teachers, special campus programs, and research projects. It also collaborates with community organizations and similar programs on other campuses.

Center for Economic Education

Fred M. Carr, Ph.D., Director

The center exists to improve the economic literacy of individuals to help them function competently as citizens, producers and consumers.

The center conducts workshops, seminars and economic programs for teachers, students and interested groups. It provides consulting services in the area of economic education and acts as a clearinghouse for the gathering and dissemination of economic education materials and programs. It also fosters an understanding and appreciation of the American economic system.

Center for Environmental Studies

Ira D. Sasowsky, Ph.D., Director

The Center for Environmental Studies matches the expertise of 95 affiliates in 33 disciplines with the needs of students seeking study and research opportunities in complex environmental issues. Since its founding in 1970, the center has sponsored, or in other ways supported, activities appropriate to the goal of attaining a quality environment for mankind.

The center coordinates special forums, workshops and seminars that address major issues. Examples include the National Energy Forum, the World Food Forum, and Evaluation of Environmental Data. Workshops on energy, natural history and environmental studies in England also emphasize the interdisciplinary approach to the resolution of issues.

Center for Family Business

Susan C. Hanlon, D.B.A., Director

The Center for Family Business provides seminars, conferences and round table discussion sessions to help business owners address problems unique to family. enterprises. The center seeks to increase the survival rate of family-owned businesses by focusing on the special challenges inherent in multigenerational family enterprises. For information, call 330-972-8201.

Center for Family Studies

Helen K. Cleminshaw, Ph.D., Director

The Center for Family Studies, established in 1979, was designed to stimulate and encourage the interdisciplinary study of the family. It serves both the University and the community by fostering collaboration between faculty, students, practitioners and community leaders on curriculum development, educational conferences and seminars, research and training, and public policy relevant to important family issues.

The Center is represented by faculty from five colleges and over 15 disciplines. It also includes leaders from various community systems, such as schools, hospitals, courts, churches, mental health, social and health care agencies. In addition, the Center has a fellows program in which outstanding faculty and community leaders are named as either fellows, adjunct fellows or senior fellows.

The Center offers certificates in the following specialty areas: Conflict Management, Case Management, Divorce Mediation and Home-Based Intervention. For more information, please refer to the descriptions of Interdisciplinary and Certificate Programs in **Section 6** of this Bulletin.

Any student, faculty member or community person interested in family issues is invited to call the director to learn how they can participate or learn more about the Center's activities.

Center for Nursing

Elizabeth Kinion, Ed.D., Director

The Center for Nursing is a part of The University of Akron's College of Nursing. It is an education and practice center for College of Nursing faculty and students as well as faculty and students from other health care disciplines on campus.

Since 1981 the Center for Nursing has provided wellness services to campus students, faculty and staff as well as outreach services to community residents of all ages. Services include health assessments and nursing physicals, stress management and self-care assistance, family and group education and support sessions. Community outreach to vulnerable populations is a major emphasis of the center.

Center for Organizational Development

Mark Lewis, M.A., Director

The Center for Organizational Development in the College of Business Administration was established to meet the training and development needs of the business community. The Center offers management development seminars, programs, conferences, and consulting services designed to enhance the skills of individuals and improve company productivity in a rapidly changing world. The Center specializes in offering dedicated leadership training and management development programs that are custom designed to meet the specific needs of companies.

Center for Policy Studies

Jesse F. Marguette, Ph.D., Director

The Center for Policy Studies is an associated center of the Institute for Health and Social Policy.

The Center houses The University of Akron survey research unit, with responsibility for external grant and contract research, research support for the Urban University linkage program, sponsored research for faculty, and internal University surveys. Geographic scope of work for center projects extends from local jurisdictions through state, national and international projects. Most of the work conducted at the center is on behalf of government or nonprofit agencies or grant funded subcontracts for faculty researchers. Center professional staff are available for consultation in the development of grant proposals and budgets.

The Center has responsibility for the administration of the Board of Regents Urban University Program (UUP) which links eight state universities to collaborate on the identification of significant urban problems and propose solutions designed to improve the urban regions of Ohio. The University of Akron Urban University Program, in addition to the collaborative mission of the Ohio UUP, encourages community oriented research and policy analysis through Partnership Grant Program. The Center also houses a State Data Center under the aegis of the Ohio Department of Development to provide Census and other data to appropriate agencies and coordinate geographic information system activities with the Department of Geography and Planning.

Center for Urban Studies

Peter J. Leahy, Ph.D., Director

The Center for Urban Studies (CUS) is The University of Akron's oldest policy research and professional service unit. Established in 1965, the Center acts as a bridge between the University and the Akron community, Ohio and beyond in pursuit of the University's urban mission.

An associated center of the Institute for Health and Social Policy, the Center for Urban Studies provides the setting and facilities through which interested faculty and graduate students become involved in urban research or professional service activities in the urban community. For many graduate students, experience gained in the Center for Urban Studies becomes an important complement to formal classroom training in their future careers.

Using the talents of faculty, researchers, administrative staff, and students, the Center explores important economic, social, and political issues; works with others to reach a better understanding of these issues; and assists groups and organizations actively engaged in problem solving, coalition building, or strategic planning. The Center also offers a training curricula designed to meet the organizational development needs of public and non-profit organizations. To reflect the expanded mission of the Center, it has been proposed that the Center be renamed the Center for Public Affairs Research and Training.

English Language Institute

Debra Deane, Director

The English Language Institute (ELI), established in 1979, provides non-credit academic English as a Second Language (ESL)instruction to international students and non-native residents who plan to pursue an undergraduate or graduate degree at The University of Akron or another U.S. university. The intensive, 20-hour per week English program also serves students who wish to improve their English to meet their own professional and/or personal goals.

ELI courses at four levels of English proficiency target language and academic skills needed for successful study at a U.S. university: reading efficiently, writing clearly, taking lecture notes, and communicating effectively with people on and off campus. Students also study grammar and vocabulary and prepare for the TOEFL test of English language proficiency, which is required for admission to the University. In addition, students receive a wide variety of support services designed to facilitate their transition to life and study in the United States.

The ELI serves as a resource on issues relating to language proficiency not only for University faculty, staff and students but also for members of the local community. ELI faculty can provide workshops and specialized courses to help departments meet the needs of their international students. For more information, visit the ELI web site at www.uakron.edu/eli/ or call 330-972-7544.

Fisher Institute for Professional Selling

Jon M. Hawes, Ph.D., Director

The Fisher Institute for Professional Selling was founded in 1994. Its mission is to enhance the image of the sales profession, to promote professional selling and sales management as rewarding lifetime careers, to provide high quality sales training and learning experiences, and to advance the knowledge of professional selling through the support of applied research.

William T. and Rita Fitzgerald Institute for Entrepreneurial Studies

Wayne H. Watkins, B.S.M.E., M.B.A., J.D., Director

In 1995, a generous gift from William and Rita Fitzgerald created the Fitzgerald Institute for Entrepreneurial Studies in the College of Business Administration. The Institute was established to promote the principles of free enterprise and encourage entrepreneurial spirit and practices both within the University's curriculum and throughout the business community.

The Fitzgerald Institute focuses on the development of curriculum appropriate for both new ventures and the entrepreneurial development and growth of existing businesses. The Institute provides the needed link between the University and the community of entrepreneurs critical to business development in the future.

For information, contact the Institute, CBA 330, 330-972-7038.

Institute for Global Business

James W. Barnett, B.B.A., Director

The University of Akron received special funding from the State of Ohio to expand its offerings of undergraduate and graduate degree programming in international business. Thus, the College of Business Administration (CBA) created the Institute for Global Business, which coordinates both credit and noncredit programming in international business. The institute also develops short courses and seminars designed to help improve the international competitiveness of area business.

Institute for Health and Social Policy

Richard C. Stephens, Ph.D., Director

The Institute for Health and Social Policy, located on the fifth floor of the Polsky Building, was established in February 1999 for the study of the delivery of effective health and social services. The mission, objectives and research continuum are defined as follows:

Mission

To improve the quality of services to specific target groups most at risk of health and social consequences in order to decrease morbidity and mortality and the burden of health and social problems on the community and individuals.

Objectives

- Conduct research appropriate to the mission
- Collaborate with units on campus
- Assist faculty in the development of proposals
- Research Continuum

Epidemiology

- Intervention Development
- Service delivery
- Technology transfer
- Policy

Most of the work conducted by the Institute is on behalf of government or nonprofit agencies. Faculty and students have the opportunity to collaborate on research and evaluation projects of national significance.

The Institute also serves as an educational resource for students and the community for the most up-to-date social and health services research available and the latest advances in behavioral and social science research technologies.

Institute for Life-Span Development and Gerontology

Harvey L. Sterns, Ph.D., Director

Isadore Newman, Ph.D., Associate Director

- Terry H. Albanese, Ph.D., Program Coordinator, Gerontology Certificate. Program, and Practicum Coordinator
- Jerome Kaplan, Ph.D., Program Coordinator, Nursing Home Administrator Program

The Institute for Life-Span Development and Gerontology, founded in 1976, coordinates multidisciplinary credit certificate programs in gerontology at the undergraduate and graduate levels. In addition, this certificate is included in the Ohio Board of Examiners of Nursing Home Administrators approved course of study in Nursing Home Administration which combines a Bachelor of Science degree in management (Human Resource Management Concentration) with a Certificate in Gerontology.

The Institute of Life-Span Development and Gerontology has grown into a campus-wide program involving more than 65 faculty in 23 different departments, representing six colleges. Students in the certificate programs carry out field placements at numerous community service settings. There are more than 40 courses at the undergraduate and graduate levels. Research, education, training and service support has been received from the U.S. Administration on Aging, National Institute on Aging, U.S. Department of Education, Office of Special Education and Rehabilitation Services, National Institute on Disability and Rehabilitation Research, AARP Andrus Foundation, Ohio Department of Aging, and Area Agency on Aging 10B. The Institute also serves as a major site for the Rehabilitation Research and Training Center Consortium on Aging and Developmental Disabilities involving seven universities in six states.

Examples of outreach activities include the Elderhostel program, offered each summer for older adults who participate in a week-long residential learning experience.

The institute is a member of the Northeastern Ohio Consortium on Geriatric Medicine and Gerontology, joining together with the Office of Geriatric Medicine and Gerontology, Northeastern Ohio Universities College of Medicine; Gerontology Center, Kent State University; and Gerontology Committee, Youngstown State University.

Institute of Polymer Engineering

James L. White, Ph.D., Director

The Institute of Polymer Engineering carries out fundamental and applied research in polymer processing, engineering performance and associated characterization.

The institute, founded in 1983, seeks to be a major intellectual and research resource in northeast Ohio. The institute maintains up-to-date and futuristic processing and characterization laboratories, with continued interest in development investigation of new process technology and new materials. Its activities also include organization of scientific symposia and various seminars related to polymer processing and engineering.

The Maurice Morton Institute of Polymer Science

Frank Harris, Ph.D., Director

The institute is concerned with basic and applied research in polymers. It was established in 1956 as the Institute of Rubber Research and in 1964 became the interdisciplinary Institute of Polymer Science. The University's first Ph.D. program in polymer chemistry was started in 1956 and was administered by the institute until a separate Department of Polymer Science was established in 1967. The institute maintains extensive laboratory facilities, an applied research group, a macro-molecular modeling center, and a mini pilot plant for polymer synthesis. It is the principal organization responsible for external funding of research projects and graduate fellowships in polymer science.

Microscale Physiochemical Engineering Center (MPEC)

George G. Chase, Ph.D., Director

The Microscale Physiochemical Engineering Center (MPEC) was established in 1996 by faculty with a common research interest in materials composed of very small particles. These small particles occur, for example, in heterogeneous catalysts, fluid/solid separations, paper-pulp processing, soil remediation, waste water decontamination, and solid transport.

The unique feature of MPEC is the ability to form multi-disciplinary teams of faculty and graduate students to solve specific industrial problems.

The Center hosts an annual conference, promotes networking, provides a forum for industrial-university cooperation, and is a consortium of industrial sponsors for fundamental and applied research in microscale physiochemical engineering.

Training Center for Fire and Hazardous Materials

David H. Hoover, Ph.D., Director

The Training Center for Fire and Hazardous Materials brings the University, goverment and industry together into one comprehensive regional center to integrate educational programs, fire and hazardous materials training and other applications of fire and safety technology. The center coordinates seminars and workshops presented by the Federal Emergency Management Agency (FEMA), the Division of State Fire Marshal and other related organizations. Training in all phases of hazardous materials containment and fire prevention and control is provided under contract to various municipalities, industries and agencies. The programs are supported by the faculty of the Fire Protection Technology degree program in association with other state and nationally recognized professionals.

Training Center for Law Enforcement and Criminal Justice

Charles F. Williams, *Director* Fred A. Baldwin, *Associate Director*

The Training Center for Law Enforcement and Criminal Justice, employing the expertise of the Criminal Justice Technology faculty and the experienced professionals in the field of Criminal Justice, provides state certified training in the following areas: Basic Peace Officer Training Academies, Corrections, Private Security, Private Investigations, Jailer Training, Police Refresher Training, Bailiff Training, Firearms Requalification, and In-service Seminars.



Courses of Instruction

Course Numbering System

INDEX

Department of Developmental Programs 1020 Developmental Programs

1021 Developmental Programs/Special Topics

English Language Institute 1030 English Language Institute

University College 1100 University College

Air Force ROTC

1500 Aerospace Studies

Army ROTC 1600 Military Science

Interdisciplinary Programs

- 1800 Divorce Mediation
- 1820 Home-Based Intervention Therapy
- 1840 Women's Studies
- 1870 Honors Program 1880 Medical Studies

Community and Technical College

- 2000 Cooperative Education
- 2020 Associate Studies English
- 2030 Associate Studies Mathematics 2040 Associate Studies Social Sciences
- 2100 Individualized Study
- 2200 Early Childhood Development
- 2210 American Sign Language Interpreting and Transliterating Technology 2220 Criminal Justice Technology
- 2230 Fire Protection Technology
- 2260 Community Services Technology
- 2280 Hospitality Management
- 2290 Legal Assisting Technology
- **Business Management Technology** 2420
- 2430 Real Estate
- 2440 Computer Information Systems
- 2520 Marketing and Sales Technology
- 2540 Office Administration
- Transportation 2560
- 2740 Medical Assisting
- 2760 Radiologic Technology
- 2770 Surgical Assisting Technology
- 2780 Allied Health
- 2790 Respiratory Care
- 2820 General Technology
- 2830 Electromechanical Service Technology
- 2840 Polymer Technology
- 2860 Electronic Engineering Technology
- 2870 Automated Manufacturing Engineering Technology
- 2880 Manufacturing Engineering Technology
- 2920 Mechanical Engineering Technology
- 2940 Drafting and Computer Drafting Technology
- 2980 Surveying and Construction Engineering Technology
- 2990 Construction Technology

Buchtel College of Arts and Sciences

- 3000 Cooperative Education 3450 Mathematics 3002 Pan-African Studies 3460 Computer Science 3003 Conflict Management 3470 Statistics 3005 Canadian Studies 3480 General Mathematical Sciences 3006 Institute for Lifespan 3490 Engineering Applied Development and Gerontology Mathematics* 3010 Environmental Studies 3500 Modern Languages 3100 Biology 3520 French 3110 Biology/N.E.O.U.C.O.M.** 3530 German 3120 Medical Technology 3550 Italian 3130 Cytotechnology 3570 Russian 3150 Chemistry 3580 Spanish 3200 Classics 3600 Philosophy 3210 Greek 3650 Physics 3220 Latin 3700 Political Science 3230 Anthropology 3240 Archeology 3250 Economics 3750 Psychology 3300 English 3850 Sociology 3350 Geography and Planning 3980 Public Administration and Urban Studies** 3370 Geology 3400 History College of Engineering 4600 Mechanical Engineering 4100 General Engineering 4700 Mechanical Polymer 4200 Chemical Engineering 4300 Civil Engineering Engineering 4400 Electrical Engineering 4800 Biomedical Engineering 4450 Computer Engineering
- **College of Education** 5000 Cooperative Education
- 5100 Educational Foundations
- 5170 Educational Administration (K-12)
- 5190 Educational Administration
- (Higer Education) 5200 Early Childhood Education
- 5250 Middle Level
- 5300 Secondary Education
- 5400 Technical Education 5540 General Education

College of Business Administration

- 6000 Cooperative Education
- 6100 General Business
- 6140 Finance for Non-Business
- Students 6200 Accountancy
- 6300 Entrepreneurship

College of Fine and Applied Arts

- 7000 Cooperative Education
- 7100 Art
- 7400 Family and Consumer Science
- 7500 Music
- 7510 Musical Organizations
- 7520 Applied Music
- 7600 Communication
- 7700 Speech-Language Pathology and Audiology

College of Nursing

8000 Cooperative Education

College of Polymer Science and Polymer Engineering

9841 Polymer Engineering 9821 Polymer Science and Polymer Engineering 9871 Polymer Science

School of Law 9200 Law

** Graduate-level courses only. See Graduate Bulletin.

- 5550 Physical Education 5560 Outdoor Education 5570 Health Education 5600 Educational Guidance and Counseling 5610 Special Education 5620 School Psychology
- 5800 Special Educational Programs
- 5850 Educational Technology
- 6400 Finance 6500 Management 6600 Marketing
- 6700 Professional**
- 6800 International Business
- 7750 Social Work
- 7750 Social Work 7800 Theatre
- 7810 Theatre Organizations
- 7900 Dance
- 7910 Dance Organizations
- 7920 Dance Performance

8200 Nursing

Department of Developmental Programs

DEVELOPMENTAL **PROGRAMS** (non-degree)

1020:

042 BASIC WRITING

4 load hours **

2 load hours!

Provides intensive practice in the process of writing, in sentence structure and punctuation, and in correct written expression. Upon successful completion of Basic Writing II, the student should be prepared to enter English (2020:121), or English Composition I (3300:111). Writing Lab hours are required.

050 BASIC MATHEMATICS I

4 load hours** Prerequisite: Placement, An intensive review of arithmetic and an introduction to the concents of elementary algebra. Emphasis is placed on developing learning strategies and controlling anxieties. Upon successful completion of Basic Mathematics I, the student should be prepared to enter Basic Mathematics II.

052 BASIC MATHEMATICS II

4 load hours ** Prerequisite: Basic Mathematics | (1020:050), or Placement, A brief review of anthmetic and intensive instruction in elementary algebra. Emphasis is placed on developing learning strategies and controlling anxieties. Upon successful completion of Basic Mathematics II, the student should be prepared to enter Business Mathematics (2420:170); Introduction to Technical Math (2020:130); Elements of Math I (2030:151); or Preparatory Math (3450:100).

060 COLLEGE READING

4 load hours ** Prerequisite: Placement. Designed to strengthen the basic comprehension skills needed for academic work, including recognition of main points and key supporting ideas, inferencing, summarizing, and vocabulary development. Upon satisfactory completion of College Reading, the student should be prepared to enter College Reading and Study Skills (1020:062). Lab hours are required.

062 COLLEGE READING AND STUDY SKILLS

4 load hours** Prerequisite: College Reading (1020:060) or placement. Continued practice of comprehension strategies with emphasis on textbook reading, and implementation of effective study strategies such as note-taking, test-taking, and memory techniques. Upon successful completion of College Reading and Study Skills, the student should be prepared to apply reading and study strategies in college classes. Lab hours are required.

064 APPLIED STUDY STRATEGIES

Corequisite: Selected General Education Courses taken concurrently. Designed to help students apply various study strategies to a specific course, such as psychology, sociology and others. Includes lecture and textbook analysis, memory techniques, and test-taking strategies. Lab hours are required.

071 DEVELOPMENTAL CHEMISTRY

4 load hours ** Prerequisite: Basic Mathematics II (1020:052) or equivalent. A mathematics review applied to chemistry and intensive instruction in principles of general chemistry. Emphasis is placed on developing learning strategies and controlling anxieties.

DEVELOPMENTAL **PROGRAMS/SPECIAL** TOPICS

1021:

299 SPECIAL TOPICS 1-4 load hours** Instruction in one or more of the following basic skills: writing, reading, mathematics, and study skills. A combination of these skills may be presented with an overall theme such as "writing, reading and technology." See the current Schedule of Classes for course offerings

ENGLISH LANGUAGE INSTITUTE

1030:

- 091 ENGLISH LANGUAGE INSTITUTE: WRITING
 - Provides intensive instruction in English writing for native speakers of languages other than English who are planning to seek admission to a United States university.

092 ENGLISH LANGUAGE INSTITUTE: READING Provides intensive instruction in English vocabulary and reading skills for native speakers of languages other than English who are planning to seek admission to a United States university.

093 ENGLISH LANGUAGE INSTITUTE: SPEAKING/GRAMMAR Provides intensive instruction in English grammar, with an emphasis on oral skills, for native speakers of languages other than English who are planning to seek admission to a United States university.

094 ENGLISH LANGUAGE INSTITUTE: LISTENING

Provides intensive instruction in English listening skills for native speakers of languages other than English who are planning to seek admission to a United States university.

095 ENGLISH LANGUAGE INSTITUTE: COMPREHENSIVE

Provides intensive instruction in English writing, reading, listening and speaking for speakers of languages other than English who are planning to seek admission to a United States university. Offered only during the summer.

University College

GENERAL EDUCATION

1100:

100 UA STUDY ABROAD Academic study at an affiliated institution outside the continental United States.

- 101 UNIVERSITY ORIENTATION
 - 2 credits Acquisition of the skills, techniques, information, and strategies necessary to aid new students in their transition from high school or work to the college environment.
- 102 TUTOR TRAINING I

1 credit Prerequisite: Permission from coordinator of tutorial programs based on GPA, letter or recommendation, and interview. Corequisite: Tutoring practicum of 25 hours. Training of peer tutors in several academic areas with topics to meet requirements of the College Reading and Learning Association

103 TUTOR TRAINING II

1 credit Prerequisite: 102. Advanced training of peer tutors, including student motivation, learning, and study strategies; assessing student learning difficulties; and referral skills.

110 INFORMATION TOOLS FOR ACADEMIC SUCCESS

Information Tools for Academic Success will allow a student to bring a real world problem or academic assignment to class to use as the framework upon which to build a repertoire of information skills. This class is a project-oriented, process-based course in which the students will: Identify and articulate an information need as it relates to a problem or assignment; effectively and efficiently access appropriate information using a variety of resources; critically evaluate the information; incorporate the information into their existing knowledge base; use the information appropriately and effectively to accomplish an explicit purpose understand the legal, social and economic aspects of information ultimately accessing and using information in an ethical manner.

191 SPECIAL TOPICS: GENERAL EDUCATION

1-4 credits

1-3 credits

0 credits

Load hours do not carry academic credit toward a degree program but do count in computing a student's course load for financial aid or student employment, and are used in probation and dismissal decisions.

Air Force ROTC

AEROSPACE STUDIES

1500:

113,4 FIRST YEAR AEROSPACE STUDIES

1.5 credits each (AS100), General Military Course, Missions and organizations of Air Force and current events discussed to show how the military contributes to national defense. Leadership laboratory required.

253,4 SECOND YEAR AEROSPACE STUDIES 1.5 credits each (AS200), General Military Course. Emphasis on air power history. Films, lectures and class discussions. The politico-military environment is presented. Leadership laboratory required.

303,4 THIRD YEAR AEROSPACE STUDIES 3 credits each (AS300), Professional Officer Course. Management concepts in the military. Leadership theory, functions and practices; professionalism; and responsibilities. Communicative skills are developed. Leadership laboratory required.

453,4 FOURTH YEAR AEROSPACE STUDIES

(AS400), Professional Officer Course. Focuses attention on the military profession, military justice systems, civil-military interactions, and the framework and formulation of defense policy. Communicative skills are developed. Leadership laboratory required.

Army ROTC

MILITARY SCIENCE

1600:

3 credits each

100 INTRODUCTION TO MILITARY SCIENCE I 2 credits Study of the mission of the Army, the principles of basic military leadership and management, land navigation, and opportunities in the Army. A geographical and cultural examination of the countries where U.S. soldiers are located. Leadership laboratory required. No military obligation incurred.

101 INTRODUCTION TO MILITARY SCIENCE II

2 credits Study of the principles and techniques of military leadership and human resource management. Introduction to drill and ceremony, small unit tactics, briefing techniques, and public speaking. Leadership laboratory required. No military obligation incurred.

200 BASIC MILITARY LEADERSHIP

2 credits Study of the principles of war and the art of leadership. Basic military skills taught through practical applications in marksmanship, map reading, first aid, and drill and ceremony. Leadership laboratory required. No military obligation incurred.

201 SMALL UNIT OPERATIONS

2 credits Study and application of the Leadership Development Program (LDP). Introduction to tactics, patrolling, and basic military skills. Leadership laboratory required. No military obligation incurred.

ADVANCED LEADERSHIP I 3 credits 300

Prerequisites: 100, 101, 200, 201 and/or permission. Study in the application of military tactics, military history, military briefing techniques and equipment. Practical work with operations orders and planning, organizing, and executing training. Leadership laboratory required

301 ADVANCED LEADERSHIP II 3 credits Prerequisite: 300 or permission. Study of leadership, leadership counseling and tactics at the small-unit level. Practical work with land navigation, marksmanship training, squad and platoon movement, and battlefield survival. Leadership laboratory required.

400 MILITARY MANAGEMENT I

Prerequisites: 300, 301, or permission. Intensive investigation of the leadership process to include applicatory work emphasizing officer ethics, duties, and responsibilities. Manageme and supervisory skills. Practical experience with the Leadership Development Program (LDP). Leadership laboratory required.

3 credits

3 credits

1-3 credits

401 MILITARY MANAGEMENT II

Prerequisites: 300, 301, or permission. Study of officer leadership and managerial responsibilities. Study of Army command organization and procedures, training management, personnel system, Uniform Code of Military Justice, and continued emphasis on counseling and human relations. Leadership laboratory required.

490 SPECIAL TOPICS IN MILITARY SCIENCE

Prerequisite: permission, (May be repeated for a maximum of six credits) Content varies with special topics. Texts to be selected according to topic and will use relevant library periodicals and journals. Existing library resources are adequate to support the course. Basic Camp, Advanced Camp, Airborne, and other specialty schools qualify for course credit.

Interdisciplinary Programs

HOME-BASED INTERVENTION THERAPY

1820:

- 403 HOME-BASED INTERVENTION THEORY 3 credits Prerequisite: Admission to the Certificate Program. Overview of home based intervention to include philosophy and description of this programming as well as assessment of family, their home and community environment.
- 404 HOME-BASED INTERVENTION TECHNIQUES AND PRACTICE 3 credits Prerequisite: 403. Provides intervention techniques and skill areas required for home-based intervention and learning opportunities for matching techniques with specific family problems.
- 405 HOME-BASED INTERVENTION INTERNSHIP 3-5 credits Prerequisite: 404. Gives students the opportunity to apply knowledge of home-based interven tion in actual delivery process working with families in their homes under direct supervision of trained, experienced home based intervention therapists.

WOMEN'S STUDIES

1840:

- 300 INTRODUCTION TO WOMEN'S STUDIES 3 credits Introduction to the interdisciplinary program in Women's Studies. Explores current scholarship in women's issues and experiences from perspectives of psychology, history, sociology, anthropology, and literary criticism. Feminist orientation and methodology.
- 480/580 FEMINIST THEORY 3 credits Prerequisite: 300. A summary of feminist theory to familiarize students with the main currents in contemporary feminist theory and the origins and evolution of that thought.
- 485/585 SPECIAL TOPICS IN WOMEN'S STUDIES 1-3 credits (May not be repeated). Special topics and current issues in Women's Studies. Covers content not currently addressed in other courses. Fosters a critical approach to knowledge about women
- 489/589 INTERNSHIP IN WOMEN'S STUDIES 1-4 credits Prerequisite: 300, permission of Director of Women's Studies. This class provides supervised experience and on-the-job training in an organization, agency, corporation or group dealing with women's issues.
- 490/590 WOMEN'S STUDIES LECTURE SERIES 1-2 credits (May not be repeated). Various topics focused on women. Themes and course materials vary each semester. Lecture and discussion.
- INDIVIDUAL STUDIES ON WOMEN 1-3 credits Prerequisite: 300, and approval of Director of Women's Studies. Directed study of selected topics related to women. Projects are chosen by student in consultation with instructor.

HONORS PROGRAM 1870:

250 HONORS COLLOQUIUM: HUMANITIES

- 2 credits Prerequisite: admission to University Honors Program. Interdisciplinary colloquium on important issues in humanities
- 360 HONORS COLLOQUIUM: SOCIAL SCIENCES 2 credits Prerequisite: admission to University Honors Program. Interdisciplinary colloquium on important issues in social sciences.
- 470 HONORS COLLOQUIUM: NATURAL SCIENCES 2 credits Prerequisite: admission to University Honors Program. Interdisciplinary colloquium on important issues in natural sciences.

MEDICAL STUDIES

1880:

- 201 MEDICAL SEMINAR AND PRACTICUM I Prerequisites: 3100:191. Provides field experiences in health-care delivery in geographic area
 - served by Northeastern Ohio Universities College of Medicine and The University of Akron. Student directed in supervised roles of professional and paraprofessional in meeting health-care needs of community. Open to first-year student in Phase 1 of B.S./M.D. program.

3 credits

310 MEDICINE AND THE HUMANITIES 3 credits Medical history, literature, and ethics from the perspective of the Humanities, with readings from original sources and literary works on medical subjects.

401/501 SPECIAL TOPICS: MEDICAL EDUCATION

1-3 credits (May be repeated with a change of topic with a maximum of three credits toward graduation.) Prerequisites: upper-college student status and permission. Selected topics on medical educa-tion offered by professionals. Intended to provide advanced undergraduate education and continuing education for student and practitioners in the health sciences. Graded CR/NCR.

Community and Technical College

COOPERATIVE EDUCATION 2000:

201,301 COOPERATIVE EDUCATION

0 credits (May be repeated) Prerequisite: cooperative education students only. Work experience in business, industry or governmental agency. Comprehensive performance evaluation and written report required.

ASSOCIATE STUDIES ENGLISH

2020:

121 ENGLISH

4 credits English composition focused on inventive writing, essay structure, process, consideration of strength, source of evidence, and citation; and development options leading to persuasion and argument

122 VOICE-DICTATED ENGLISH 4 credits English composition with voice dictation as a writing tool. Includes inventive writing, essay struc-

ture, citations and various department options leading to persuasion and argument.

222 TECHNICAL REPORT WRITING

Prerequisite: 121, 3300:111 or equivalent. Prepares student to write the types of reports most often required of technicians, engineers, and scientists. Includes types of reports, memoranda, and letters; techniques of research, documentation and oral presentations.

224 WRITING FOR ADVERTISING

4 credits Prerequisite: 121, 3300:111 or equivalent. Introduction to the copywriter's role in print advertising and collateral materials. Study of advertising language, practice in writing advertisements, brochures, sales letters. Includes writing for a portfolio.

226 ELECTRONIC REFERENCE RESOURCES IN THE COMPUTER AGE

Prerequisites: 2020:121 or 3300:111. Designed for individuals to broaden their scope and understanding of various electronic research techniques. Study, evaluation, and use of current and emerging technologies will be examined.

227 WRITING FOR THE WORLD WIDE WEB

3 credits Prerequisites: 121 or equivalent, familiarity with Internet (or attend Computer Center training seminar) knowledge of word processing software. Introductory course examines spoken and written contexts merging into one "writing space"; provides writing theory and practice for effective e-mail, newsgroup, chat, and web site writing.

290 SPECIAL TOPICS: ASSOCIATE STUDIES

1-4 credits (May be repeated with a change in topic) Prerequisite: permission. Selected topics on subject areas of interest in associate studies.

ASSOCIATE STUDIES MATHEMATICS

2030:

- 3 credits 130 INTRODUCTION TO TECHNICAL MATHEMATICS The real number system, systems of measurement, conversions, linear equations, factoring, quadratic equations, graphing, linear systems, organizing data, averages, standard deviation, the normal distribution.
- 151 ELEMENTS OF MATHEMATICS I 2 credits Prerequisites: Two years of high school algebra and placement test. Fundamental concepts and operations, functions, graphs, factoring and algebraic fractions, variation, and quadratic equations.
- 152 ELEMENTS OF MATHEMATICS II 2 credits Prerequisite: 151 or three years high school mathematics and placement test. Trigonometric functions, systems of linear equations, determinants, trigonometric functions of any angle, the

straight line, radians, the j-operator.

153 ELEMENTS OF MATHEMATICS III 2 credits Prerequisite: 152 or equivalent. Complex fractions, exponents and radicals, binomial theorem, exponential and loganthmic functions. Arithmetic and geometric sequences, series optional.

154 ELEMENTS OF MATHIN

Prerequisite: 153 or equivalent. Graphs of trigonometric functions, complex numbers in polar form, trigonometric identities and equations, higher degree equations, analytic geometry of the straight line and conic sections.

- 161 MATHEMATICS FOR MODERN TECHNOLOGY 4 credits Prerequisite: 151 or placement by adviser. Numeration systems. Analytical geometry of the straight line, linear system. Matrices and matrix methods, determinants. Sets and logic. Probability and statistics. Math of finance.
- 255 ELEMENTS OF CALCULUS 3 credits Prerequisite: 154 or equivalent. The derivative, applications of the derivative, derivatives of the trigonometric, logarithmic, and exponential functions. Integration by antidifferentiation.
- 290 SPECIAL TOPICS: ASSOCIATE STUDIES MATHEMATICS 1-4 credits (May be repeated with a change in topic) Prerequisite: permission. Selected topics on subject areas of interest in associate studies
- 345 BASIC TECHNIQUES FOR DATA ANALYSIS 2 credits Prerequisite: 154 or 161. Data summarization including graphic presentation, numerical measures, introduction to probability, confidence intervals and hypothesis testing. Computer usage incorporated. For Community and Technical College students only.
- 356 CALCULUS FOR TECHNICAL APPLICATIONS 3 credits Prerequisite: 255 or equivalent. Methods and applications of integration, first and second order differential equations, series expansion, Laplace transforms, partial derivatives, and double integrals.

ASSOCIATE STUDIES SOCIAL SCIENCES

2040:

3 credits

3 credits

- 230 TECHNICAL CAREER SEARCH SKILLS 1 credit Students will develop specific skills in resume writing, interviewing, self-directed job search, networking, researching employers, as well as learning the fundamentals of the job market.
- 240 HUMAN RELATIONS 3 credits Examination of principles and methods which aid in understanding the individual's response to society and the relationship between society and individuals.
- 241 TECHNOLOGY AND HUMAN VALUES 2 credits Examination of impact of scientific and technical change upon people, their values and institutional arrangements. Topics include biomedical technology, automation, economic growth, natural environment and technology and quality of life.
- 242 AMERICAN URBAN SOCIETY 3 credits Multidisciplinary treatment of urban processes and problems. Concerns historical, political, social, economic and other environmental forces which impact the individual in an urban setting.
- 243 CONTEMPORARY GLOBAL ISSUES 3 credits Multidisciplinary approach to global social problems. Examines cultural, political, and economic issues in developed and developing nations. Emphasizes technology's impact and global interrelationships.
- 244 DEATH AND DYING 2 credits Examination of a wide range of topics related to death and dying. Emphasis is placed on understanding and coping with death and dying.
- 247 SURVEY OF BASIC ECONOMICS 3 credits Introduction to economic analysis and issues designed for the student taking only one course in economics. Coverage includes economic systems, exchange, money and banking, national income, employment, fiscal policy and current domestic economic problems.
- 251 HUMAN BEHAVIOR AT WORK 3 credits Examination of relationship between human behavior and the work organization. Emphasis on how contemporary organizations are changing and what makes individuals within their organizations more effective
- 254 THE BLACK EXPERIENCE FROM 1619 TO 1877 2 credits Prerequisite: 2020:121 or 3300:112. Examination of the black American including origins, historical achievements and striving to achieve first-class citizenship in America from 1619 to 1877.
- 255 THE BLACK EXPERIENCE SINCE 1877 2 credits Prerequisites: 121 or 3300:112. Examines issues in Black America since 1877. Compare segre gation, integration, desegregation with equal opportunity and diversity as strategies ameliorating discrimination, racism and cultural differences.
- 256 DIVERSITY IN AMERICAN SOCIETY 2 credits Prerequisites: 121, or 3300:112 or equivalent. Survey course covering demographic, social, economic, political, and educational realities of diversity in 21st Century. Focus on diversity and unity, historical overview.
- 271 INTRODUCTION TO LABOR STUDIES 3 credits Overview of Trade Unionism in America from 18th Century to present with emphasis on factors affecting growth of unions. Rise of industrial unionism as alternative to craft unions. Trade union movements in other countries examined for their influence on American unions.
- 272 COLLECTIVE BARGAINING I 3 credits Review of collective bargaining dealing with wages, fringes and working conditions. Examination of contract content. Development of bargaining proposals. Skills required in negotiations and union/management responsibilities to community in collective bargaining. Strikes and impasse resolution
- 273 LEGAL FRAMEWORK FOR COLLECTIVE BARGAINING 3 credits Legal framework within which collective bargaining process takes place. Rights of employees, union and employer under federal and state laws discussed in context of organizing, election and bargaining.
- 274 LABOR LEGISLATION AND ECONOMIC SECURITY 3 credits Prerequisite: 122 or permission. Federal and state legislation governing employment conditions and standards. Includes minimum wage, health and safety governing en portent compensation, TDI, civil rights and anti-discrimination, social security, labor management reporting, and disclosure.
- 275 COLLECTIVE BARGAINING II 3 credits Prerequisite: 111. Mechanics and skills of formal grievance procedures in industrial, craft and public setting. Investigation, record keeping and presentation of grievance, as well as study of arbitration process and preparation and presentation of arbitration cases.

- 276 OCCUPATIONAL HEALTH AND SAFETY STANDARDS 3 credits Prerequisite: 122. Examination of William/Steiger Occupational Safety and Health Act and rights and responsibilities conferred on unions by this act. Includes not only workings of the law but also hazards recognition study.
- 277 FAIR PRACTICES AND EQUAL OPPORTUNITY Prerequisite: 101. Rights and responsibilities of unions and union members as related to Title VII of the Civil Rights Act, the Voting Rights Act and development of EEOC.
- 278 UNION LEADERSHIP 2 credits Prerequisite: 101. Specific skills related to administration of local unions structure and duties and responsibility of officers
- 279 PROBLEMS IN LABOR STUDIES 3 credits Prerequisite: final semester or permission. Each student required to combine field research and classroom time to identify, explore and propose an approach to a current problem in labor/management relations.
- 3 credits 280 WAGE ADMINISTRATION Prerequisites: 101, 111 or 122. Wage and salary determination: structure of wages, salaries and fringe benefits and use of merit and incentive plans. Methods of compensation analyzed. Impact of federal and state laws governing the payment of wages.
- 281 PUBLIC SECTOR LABOR RELATIONS Prerequisite: 101. Analyzes current problems, developments and issues in public sector collec-tive bargaining from growth of public employee unions to the nature of bargaining in the public ctor. Includes bargaining issues, right-to-strike and use of arbitration in public sector
- 282 LABOR LAW IN THE PUBLIC SECTOR 3 credits Prerequisite: 271. Provides basic understanding of legal requirements and restraints placed upon parties when bargaining within federal, state and local sectors as well as postal and educational areas. Legal framework of collective negotiations or contract administration.
- 290 SPECIAL TOPICS: LABOR STUDIES 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or workshops in labor studies
- 290 SPECIAL TOPICS: ASSOCIATE STUDIES SOCIAL SCIENCES 1-4 credits (May be repeated with a change in topic) Prerequisite: permission. Selected topics on subject areas of interest in the social sciences.

INDIVIDUALIZED STUDY

2100:

190 INDIVIDUALIZED STUDY EVALUATION

1 credit Prerequisite: admission to program. A continuing assessment of the student's progress and program. Enrollment required during first semester in the Individualized Study Program.

EARLY CHILDHOOD DEVELOPMENT

2200:

- 245 INFANT/TODDLER DAY-CARE PROGRAMS 3 credits Survey of infant/toddler development. Principles of infant/toddler caregiving. Design of environment and curriculum based on child's needs. Includes observation of children. (20 field hours required)
- 246 MULTICULTURAL ISSUES IN CHILD CARE 3 credits The study of cultural differences in child care and preschool settings to improve caregiving practices and enhance communication between caregivers and families.
- 247 DIVERSITY IN EARLY CHILDHOOD LITERACY 3 credits Examination and analysis of children's books and materials on diversity reflecting differences and similarities of groups of people that make up our society.
- 250 OBSERVING AND RECORDING CHILDREN'S BEHAVIOR 3 credits Prerequisite: 7400:265 or permission. Develops observing and recording skills using different types of records to assess children's development and behavior. (10 field hours required)
- 290 SPECIAL TOPICS: EARLY CHILDHOOD DEVELOPMENT 1-3 credits Prerequisite: permission. Selected topics on subject areas of interest in early childhood development.
- 295 EARLY CHILDHOOD PRACTICUM 5 credits Prerequisites: 245 and 5200:360, 370 and 7400:265, 270, 280. Supervised practicum in an early childhood/preschool educational setting designed for Early Childhood Development students only.
- 297 INDEPENDENT STUDY 1-3 credits (May be repeated for a total of six credits) Prerequisite: permission. Selected topics and special areas of study under supervision and evaluation of selected faculty member with whom specific arrangements have been made

CRIMINAL JUSTICE TECHNOLOGY

2220:

- 100 INTRODUCTION TO CRIMINAL JUSTICE 3 credits Overview of criminal justice system, its history, development and evolution within the United States including subsystems of police, courts, corrections. Constitutional limitations, current criminal justice practices human relations, professionalization, prevention.
- 101 INTRODUCTION TO PROPRIETARY SAFETY 4 credits erview of functions, problems and strategies of contract and proprietary security agencies. Philosophy of the protection of assets based on risk analysis and cost effectiveness.
- 102 CRIMINAL LAW FOR POLICE 3 credits Prerequisite: 2220:100. Historical development and philosophy of the law. Thorough study of modern criminal law including Ohio Criminal Code and defenses to particular crimes.
- 104 EVIDENCE AND CRIMINAL LEGAL PROCESS 3 credits Prerequisite: 2220:100. Study of evidence law, constitutional perspectives and law enforcement officer's relationship thereto. Court procedures from arrest to incarceration.
- 106 JUVENILE JUSTICE PROCESS 3 credits Prerequisite: 2220:100. Examination of juvenile justice system, functions of its various components; adolescent subculture, legislation, causative factors, prevention and treatment methodologies and programs.
- 210 POLICE PATROL/TRAFFIC OPERATIONS 3 credits Prerequisite: 100. Designed to meet peace officer certification requirements. Emphases placed on basic patrol procedures, traffic enforcement, traffic engineering, and traffic safety education.
- 212 TRAFFIC ACCIDENT INVESTIGATOR 4 credits Prerequisite: OPOTC Certification. Traffic accident investigation basics with a further emphasis on technical aspects of investigation and follow-up.
- 222 INTERVIEW AND INTERROGATION 3 credits Prerequisite: OPOTC Certification. A course of study on interview and interrogation which will teach the student how to obtain information in an orderly, effective, and legally sufficient manner.
- 240 VICE AND ORGANIZED CRIME 3 credits Prerequisites: 100 and permission. An overview of organizations operating nationally and internationally in a variety of criminal activities with a particular emphasis on narcotics trafficking.
- 242 ORGANIZED CRIME/VICE CRIME 3 credits Prerequisite: 100. Comprehensive examination of origins, forms, and histories of organized crime, gambling, prostitution, and substance abuse; with special emphasis on law enforcement efforts and methods
- 250 CRIMINAL CASE MANAGEMENT 6 credits Prerequisites: 100, 2820:105 and permission. Reconstruction of chronological sequence of a crime including searching, collection, preserving and evaluation of physical and oral evidence. Scientific approach to criminal investigation.
- ADVANCED CRIMINAL CASE MANAGEMENT 252 4 credits Prerequisite: OPOTC Certification. Designed to meet the in-service police officer/investigators need to understand new/updated technology and approaches in managing criminal cases.
- 262 POLICE ADMINISTRATION 3 credits Prerequisite: OPOTC Certification. Approaches to police administration from an overview perspective providing the fundamentals of administration and management while giving the law enforcement student a framework for understanding.
- 270 COMMUNITY CORRECTIONS 3 credits Prerequisite: 100. Examines the corrections component of the criminal justice system. Special focus on the development and use of probation, parole and other alternative forms of sentencing.
- 290 SPECIAL TOPICS: CRIMINAL JUSTICE 1-4 credits (May be repeated for a total of six credits) Prerequisite: permission. Workshops and special programs in selected areas of criminal justice such as community relations, crime statistics, ethics, survival
- 291 SPECIAL TOPICS: CRIMINAL JUSTICE 1-4 credits (May be repeated for a total of six credits). Prerequisite: permission. Workshops and special programs in selected areas of criminal justice such as community relations, crime statistics, ethics, survival
- 292 SPECIAL TOPICS: CRIMINAL JUSTICE 1-4 credits (May be repeated for a total of six credits). Prerequisite: permission. Workshops and special programs in selected areas of criminal justice such as community relations, crime statistics, ethics, survival
- 293 SPECIAL TOPICS: CRIMINAL JUSTICE 1-4 credits (May be repeated for a total of six credits). Prerequisite: permission. Workshops and special programs in selected areas of criminal justice such as community relations, crime statistics, ethics, survival
- 294 CRIMINAL JUSTICE INTERNSHIP EVALUATION 1 credit Prerequisites: 100. Thirty credits and permission; corequisite: 295. Analysis by student and instructor of internship experience. A sharing of knowledge gained by student during internships.
- **CRIMINAL JUSTICE INTERNSHIP** 3 credits Prerequisites: 100. Thirty credits and permission; corequisite: 294. Supervised work experience in criminal justice agency for purpose of increasing student understanding of criminal justice process.
- 296 CURRENT TOPICS IN CRIMINAL JUSTICE 1-3 credits Prerequisite: 100. A variety of course topics on current subjects relative to law enforcement and the Criminal Justice System. May be repeated for up to 12 credits.
- 297 INDEPENDENT STUDY: CRIMINAL JUSTICE 1-3 credits Prerequisite: 100 and permission. Selected topics and special areas of study in Criminal Justice Technology under the supervision of a selected faculty member with whom specific arrangements have been made
- 298 APPLIED ETHICS IN CRIMINAL JUSTICE 3 credits Prerequisite: 100. This course deals with ethical considerations which confront justice practitioners and the legal ramifications of misconduct.

FIRE PROTECTION TECHNOLOGY

2230:

- 100 INTRODUCTION TO FIRE PROTECTION 3 credits History and philosophy of fire protection; introduction to agencies involved; current legislative developments; discussion of current related problems, expanding future of fire protection and career orientation.
- 102
 FIRE SAFETY IN BUILDING DESIGN AND CONSTRUCTION
 3 credits

 Exploration of building construction and design with emphasis on fire protection concerns; review of related statutory and suggested guidelines local, state and national scope.
 3

104 FIRE INVESTIGATION METHODS 4 credits History of fire investigation; gathering of evidence and development of technical reports; fundamentals of arson investigation; processing of criminal evidence and procedures related to local and state statutes.

- 153 PRINCIPLES OF FIRE PROTECTION AND LIFE SAFETY 3 credits Recognition of specialized fire hazards. Maintenance and utilization of portable and automatic fire extinguishing devices. Fire prevention methods, code compliance. Organizing fire safety training programs.
- 202 INCIDENT MANAGEMENT FOR EMERGENCY RESPONDERS 4 credits Efficient and effective use of human resources, equipment and systems. Emphasis on preplanning, incident management, problem solving related to emergency preparation and response.
- 204 FIRE HAZARDS RECOGNITION 3 credits Inspection techniques and procedures; setting up a fire prevention bureau. Recognition and correction of fire hazards. Public relations and code enforcement.
- 205 FIRE DETECTION AND SUPPRESSION SYSTEMS I 3 credits Design, installation, maintenance and utilization of portable fire extinguishing appliances and preengineered automatic systems; fire detection and alarm signaling systems operational capabilities, requirements.
- 206 FRE DETECTION AND SUPPRESSION SYSTEMS II 3 credits Prerequisite: 205. Design, installation and operation of automatic fire suppression systems. Includes sprinkler, foam, carbon dioxide, dry chemical, halogenated agent systems.
- 250 HAZARDOUS MATERIALS 4 credits Prerequisite: 100. Study of chemical characteristics and reactions related to storage, transportation and handling of hazardous materials. Emphasis on emergency situations, fire fighting and control.
- 254 FIRE CODES AND STANDARDS
- Prerequisite: 104. Study of legal rights and duties, liabilities and responsibilities of fire department organizations.
- 257 FIRE AND SAFETY ISSUES FOR BUSINESS AND INDUSTRY 3 credits Industrial fire and safety issues related to specialized hazards, federal and state regulations. Emphasis on emergency response team preparedness, confined space entry and rescue.

280 FIRE SERVICE ADMINISTRATION

Prerequisites: 100. Fire officer professional qualifications; federal, state regulations governing department operations–OSHA, EPA; emergency and non-emergency operations procedures–ICS, IMS, Emergency Operations Center are presented.

290 SPECIAL TOPICS: FIRE PROTECTION TECHNOLOGY

(May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in fire protection technology.

294 ADVANCED FIRE INVESTIGATION METHODS

Prerequisites: 100, 104, 205, 206. Designed to meet student and in service fire investigators need to understand new/updated technology and methodology in managing fire investigations.

295 FIRE PROTECTION INTERNSHIP 4 credits Prerequisites: 30 credits in program and permission of program coordinator. Supervised work experience in fire protection to increase student understanding of fire technology; analysis by

student and instructor of internship experience; sharing of the technology, analysis by student and instructor of internship experience; sharing of knowledge gained during internship. INDEPENDENT STUDY: FIRE PROTECTION 1-3 credits

Prerequisite: 2230:100 and permission. Selected topics and special areas of study in fire protection technology under the supervision and evaluation of a selected faculty who assigns specific arrangements.

EMERGENCY MANAGEMENT

2235:

- 305 PRINCIPLES OF EMERGENCY MANAGEMENT 3 credits An overview of the history and philosophy, terms and concepts, and local, state and federal roles in emergency management. Emphasizes manmade, natural and technological hazards.
- 350 EMERGENCY RESPONSE PREPAREDNESS AND PLANNING 3 credits Legal requirement, planning formats, and response procedures are presented. Special focus community risk assessment: hazard analysis, vulnerability assessment, and community response capability assessment.
- 380 DISASTER VICTIMS: CASUALTIES AND RECOVERIES
 3 credits

 Prerequisites: 305 and 350. Analysis of citizen actions before, during and following major disasters including review of contemporary research and developing theory.
 3 credits
- 405 HAZARD PREVENTION AND MITIGATION 3 credits Prerequisite: 350. Examines various mitigation programs and ways in which communities can increase their levels of prevention and decrease their risk and impact of disasters and major emergencies.
- 410 DISASTER RELIEF AND RECOVERY 3 credits This course provides the foundation for disaster relief and recovery planning, stages of recovery, resources used, formation of public/private and the process of prioritizing various business and government and citizen needs for recovery action and resource allocation.
- 450 EMERGENCY MANAGEMENT RESEARCH METHODS AND APPLICATIONS 4 credits Prerequisites: 305 and 350. Introduction to current research conducted in the field of emergency management and various methods appropriate for analyzing current topics in the field.
- 490 CURRENT TOPICS IN EMERGENCY MANAGEMENT 1-4 credits Prerequisites: 305 and 350. A variety of course topics on current subjects related to emergency management and disaster preparedness. May be repeated for up to 12 credits.
- 495 INTERNSHIP: EMERGENCY MANAGEMENT 4 credits Prerequisite: 30 hours in program and permission from program director. Supervised work experience in emergency management to increase student understanding of emergency management and disaster response.
- 497 INDEPENDENT STUDY: EMERGENCY MANAGEMENT 1-4 credits Prerequisites: 305 and 350. Selected topics, special areas of study in emergency management, disaster preparedness under the supervision of a faculty member with whom specific arrangements have been made.

COMMUNITY SERVICES TECHNOLOGY

2260:

3 credits

4 credits

1-2 credits

3 credits

- 100 INTRODUCTION TO COMMUNITY SERVICES 3 credits Introductory course to familiarize student with role of community services technician in service delivery. Use, history and rationale for paraprofessionals, programs, volunteer experiences, selfawareness, and interaction in community services.
- 121 SOCIAL SERVICE TECHNIQUES I 3 credits Prerequisite: 171. Preparation to provide helping interventions as Social Work Assistants. Focuses on helping relationships, helping and problem-solving processes, social work values, attending skills and interview techniques.
- 122 SOCIAL SERVICE TECHNIQUES II 3 credits Corequisite: 121. Focus on enhancing self-awareness. Provides basic knowledge about social group work and opportunities for students to practice beginning group work techniques by cofacilitating group discussions and experiential activities.
- 150 INTRODUCTION TO GERONTOLOGICAL SERVICES 3 credits Basic orientation to gerontology and role of community service technician in service delivery to aged. Topics include social, biological, economical, and psychological aspects of aging; national and state legislation; services and service provider.
- 172 CAREER ISSUES IN SOCIAL SERVICES I 1 credit Corequisite: 7750:276. Orients students to human service education and introduces them to the knowledge, skills and attitudes essential for future educational and career success.
- 172 CAREER ISSUES IN SOCIAL SERVICES II 1 credit Prerequisite: 171. Addresses attitudes and behavior necessary to succeed in field work and on the job. Topics include appropriate professional behavior, using supervision effectively and workplace competencies.
- 210 ADDICTION EDUCATION AND PREVENTION 2 credits In-depth understanding of prevention/education programming, with emphasis on: targeting highrisk individuals; program models; program effectiveness; and community/school needs, expectations, capabilities and limitations.
- 223 SOCIAL SERVICES TECHNIQUES III 3 credits Prerequisite: 122. Corequisites: 172 or 173. Provides knowledge base for working with individuals in crisis. Students apply crisis theory to developmental and situational crises and practice crisis intervention techniques.
- 230 COMMUNITY-BASED RESIDENTIAL SERVICES 3 credits Orientation to community-based residential services and role of community services technician in delivery of services to mentally disabled. Includes historical, social and legal forces in community-based services and practical aspects of operation of a residential facility.
- 240 PHARMACOLOGY OF PSYCHOACTIVE DRUGS 3 credits Introduction to pharmacology of drugs of misuse; physiological factors of alcohol/drug-using behavior; effect of psychoactive drugs on the brain; intervention and treatment measures...

.

260 INTRODUCTION TO ADDICTION 3 credits An overview of the continuum of use, abuse and dependency; theories of addiction; the impact of addiction on society; and the implications for professional practice.

261 ADDICTION TREATMENT 4 credits Prerequisite: 2260:260. Survey of treatment approaches used in treatment of persons with addictions. Special emphasis on MET, Solution-Focused Therapy, Twelve-Step Facilitation and Cognitive-Behavioral approaches. Critical ethical/legal issues will be covered.

262 BASIC HELPING SKILLS 4 credits Prerequisite: 100. Teaches micro skills through the use of didactic presentation, role play and videotaping; develops ability to give and receive feedback about effectiveness of helping others.

263 GROUP PRINCIPLES IN ADDICTIONS 4 credits Prerequisite: 260. Introduces group concepts and dynamics, explores issues in addiction that influence group treatment a nd provides experiential opportunity for students to understand roles in a group.

264 ADDICTION AND THE FAMILY 3 credits Prerequisites 260. Theories and counseling techniques used in the assessment and treatment of the family system. Impact of addiction on child development, parenting, the marital relationship, and the community will be explored.

265 WOMEN AND ADDICTION 3 credits Exploration of the social, psychological, physical and family aspects of addiction in women.

266 SOCIAL SERVICE TECHNIQUES WITH CHILDREN AND FAMILIES 3 credits Prerequisite: 122. Preparation for working with children individually and in their families. Content includes child development in relation to environmental factors, social policy concerns and helping interventions.

267 ADDICTION ASSESSMENT AND TREATMENT PLANNING

Prerequisite: 260. Overview of screening, diagnosis and assessment procedures in the addiction field, including review of the most commonly used testing instruments. Implication for treatment planning is explored.

268 DUAL DIAGNOSIS 3 credits Prerequisite: 260. Key concepts and techniques in the provision of services to people suffering from both mental illness and substance abuse.

CRIMINAL JUSTICE AND ADDICTION 3 credits 269 Prerequisite: 260. An introduction to the problems that exist with the treatment of the alcohol/drug offenders and issues relating to their transition back to the community.

270 RELAPSE PREVENTION 2 credits Prerequisite: 260. A study of the concepts and strategies of relapse prevention with addictions.

271 NON-CHEMICAL ADDICTIONS AND DEPENDENCIES 2 credits Prerequisite: 260. Introduction to understanding human activities leading to behaviors and physiclogical responses similar to those produced by the misuse and abuse of psychoactive chemicals.

273 CAREER ISSUES IN SOCIAL SERVICES III 1 credit Prerequisite: 122 and 171. Explores strategies to promote optimal effectiveness in human service careers. Topics include self-care, preventing burnout, ethical dilemmas, human diversity and the professional use of self.

275 THERAPEUTIC ACTIVITIES 3 credits Prerequisite: 150. Preparation for planning, adapting and implementing individual and group ther-apeutic activities to meet diverse psychological needs. Emphasizes program planning, motivational techniques and group work skills.

276 PRACTICUM IN THERAPEUTIC ACTIVITIES 1 credit Prerequisite: 150. Corequisite: 275. Supervised 90-hour experience in long-term care facility observing, planning and providing therapeutic activities. Students practice program planning, documentation and group work skills.

277 CASE MANAGEMENT IN COMMUNITY SERVICES

Case by case study of Social Service delivery in six primary areas of Human Services. Emphasis on case management skills, documentation and ethics.

278 TECHNIQUES OF COMMUNITY WORK

4 credits frerequisites: 100 and 2020:121. For those intending to work in community organizations in the United States and for others desiring an understanding of technical community service roles. Covers such topics as ethics, liability issues, communication and problem solving skills, values clarification, stress management systems theory, and assertive behavior.

279 TECHNICAL EXPERIENCE IN COMMUNITY AND SOCIAL SERVICES

5 credits Prerequisite: 278 and permission. Individual placement in selected community and social service agencies for educationally supervised experience in community and social services technician position. Does not substitute for 7750:421 or 495.

285 SOCIAL SERVICES PRACTICUM I

Prerequisites: 122, 172 and 273. Supervised field placement in a human service organization. ints apply classroom learning to actual helping situation, test career interests and gain practical, on-the-job experience.

286 ADDICTION SERVICES INTERNSHIP

2 credits Prerequisites: 279 and permission of instructor. Integrates counselor assistant experience with fundamental concepts and skills from academic studies. Students required to complete 200 hours of supervised field experience.

287 SOCIAL SERVICES PRACTICUM II

technology.

Prerequisites: 172, 273, 285 and permission. Second supervised field placement in a human service organization. Students apply classroom learning to actual helping situation, test career interests and gain practical, on-the-iob experience.

288 TECHNIQUES OF COMMUNITY WORK II

SPECIAL TOPICS: COMMUNITY SERVICES TECHNOLOGY 1-3 credits Prerequisite: permission. Selected topics or subject areas of interest in community services

- 294 SOCIAL SERVICES PRACTICUM SEMINAR 1-2 credits Taken concurrently with Social Services Practicum I and II to discuss practicum experiences confidentially, integrate classroom learning with practical field work situations, and support learning.
- 1-3 credits 297 INDEPENDENT STUDY Prerequisite: permission. Selected topics and special areas of study under the supervision and evaluation of a selected faculty member with whom specific arrangements have been made.

HOSPITALITY MANAGEMENT 2280:

3 credits

3 credits

1-4 credits

1-4 credits

4 credits

- 101 INTRODUCTION TO HOSPITALITY 3 credits Explores the various segments of the hospitality industry and introduces the knowledge and skills required for success
- 120 SAFETY AND SANITATION 2 credits Introduction to food service sanitation, safety practices pertinent to hospitality manager. Emphasis on sanitation laws, rules, food microbiology, safe food handling, storage practices, accident prevention
- 121 FUNDAMENTALS OF FOOD PREPARATION I 4 credits Skills and basic knowledge of food preparation procedures in a laboratory situation.
- 122 FUNDAMENTALS OF FOOD PREPARATION II 4 credits Prerequisites: 120 and 121. Continuation of 121. Food preparation techniques presented in laboratory situations for public consumption in a restaurant setting.
- WINE AND BEVERAGE SERVICE 3 credits Intensive examination of wine as related to hospitality industry. Emphasis on business practices. History and development of viticulture, enology.
- 230 ADVANCED FOOD PREPARATION 4 credits Prerequisites: 101 and 122. Lecture and demonstration followed by hands-on experience in the preparation of classical American dishes as well as cuisines and techniques from around the world.
- 232 DINING ROOM SERVICE AND TRAINING 3 credits In-depth study of the styles of dining service, development of job descriptions, importance of courtesy, customer relations. Application of service techniques in restaurant environment.
- 233 RESTAURANT OPERATIONS AND MANAGEMENT 4 credits Prerequisite: 122, 232 and 245 for restaurant management option. Additional prerequisite: 261 for culinery arts majors. Introduction to large quantity food service procedures with emphasis on sound principles of food handling service and sanitation in large quantity operations. Gourmet meals served in simulated restaurant atmosphere.
- 1 credit 237 INTERNSHIP Prerequisite: permission. On/off campus observation/work experience integrated with academic instruction. Concepts applied to practical situations. May be repeated for a total of two credits.
- 240 SYSTEMS MANAGEMENT AND PERSONNEL 3 credits Identifies systems utilized in successful food service operations. General principles of each systern, its interrelationships with total food service organization explored.
- 243 FOOD EQUIPMENT AND PLANT OPERATIONS 3 credits Prerequisite: 120. Available food service equipment, its selection, use and care. Field trips taken to wholesale outlets and food service establishments to see food service equipment demonstrated and in operation.
- 245 MENU, PURCHASING AND COST CONTROL 4 credits Prerequisites: 101 and 2420:170. Menu design and merchandising integrated with purchasing principles, specifications and receiving, as well as financial controls and procedures within the hospitality environment.
- 256 HOSPITALITY LAW 3 credits Introduction to hotel, restaurant, travel law. Fundamental constitutional, statutory, administrative rules, regulations applicable to hospitality industry. Case study, problem-solving approaches applied to legal problems confronting hospitality executives.
- 261 BAKING AND CLASSICAL DESSERTS 4 credits Prerequisite: 122. Techniques and production of quick breads, yeast products, cakes, cookie specialty desserts and pies. Emphasis on equipment, formulas, ingredient selection and product quality evaluation.
- 268 REVENUE CENTERS 3 credits Prerequisite: 101. An in-depth examination of the sales producing divisions of the hotel organization. The rooms, banquet, food and beverage, and special departments as well as their interconnections are studied.
- 278 HOTEL CATERING AND MARKETING 3 credits Prerequisite: 101. Hotel sales office operation/supervision are presented. Marketing and promotion of the property, planning, internal/external selling, the sales contract and execution of functions. 290 SPECIAL TOPICS: HOSPITALITY MANAGEMENT 1-3 credits
- (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in food service management.
- WORKSHOP 1-5 credits Workshops offered to meet community training needs.

LEGAL ASSISTING TECHNOLOGY

2290:

INTRODUCTION TO LEGAL ASSISTING

- Covers the basics of legal assisting emphasizing the fundamental concepts of the legal system. Includes overview of legal assistant career and ethical considerations relative thereto.
- 104 BASIC LEGAL RESEARCH AND WRITING 3 credits Prerequisite: 101. Will provide the student with basic research abilities necessary in law offices. Includes the use of law library tools (reporter systems, legal encyclopedias, codes, and computer).
- BUSINESS ASSOCIATIONS 106 3 credits Prerequisite: 101. Instructs students in different types of business entities, from sole proprietorships to corporations. Preparation of forms and necessary governmental filings will be stressed.
- 108 REAL ESTATE TRANSACTIONS 3 credits Prerequisite: 101. Acquaints students with basic real property law, including different types of deeds, ownerships, easements, and mortgages. Problems arising from sales agreements will be covered.
- 110 TORT LAW

3 credits Prerequisite: 101. Covers the traditional civil wrongs, from the plaintiff's and defendant's standpoints. Actual cases will be briefed and discussed. Stresses importance of preparation prior to trial.

112 FAMILY LAW

3 credits Prerequisite: 101. Covers antenuptial agreements, marriage, divorce, dissolutions, annulments, adoptions, juvenile law, artificial insemination, and paternity.

PROBATE ADMINISTRATION

Prerequisite: 101. Covers law necessary to draft and interpret wills, trusts. Includes administration of a typical estate within Probate Court. Touches on guardianship, commitment of mentally ill.

204 ADVANCED LEGAL RESEARCH 3 credits Prerequisite: 101; 104. Continuation of 104. Will especially stress importance of clear, concise legal writing. Students will write briefs, motions, and complaints as part of their endeavor.

214 CIVIL PROCEDURE 3 credits Prerequisite: 101. Covers aspects of legal assisting in different types of civil litigation. Includes Ohio Rules of Civil Procedure, preparation of complaints, answers, motions, basic trial preparation.

216 DEBTOR-CREDITOR RELATIONS 3 credits Prerequisite: 101. Covers bankruptcy primarily, as well as collection methods and state law remedies

- ADVANCED PROBATE ADMINISTRATION 3 credits Prerequisites: 101; 118. Covers guardianships, marriage licenses, living wills and advanced directives, adoptions, name changes, and the probate and tax issues of intestate and testate estates.
- LEGAL ASSISTING INTERNSHIP 4 credits 220 Prerequisites: 101: 104. Must have completed first-year courses. Gives students experience in law-related office. Students work at placement and meet with course instructor.
- SPECIAL TOPICS: LEGAL ASSISTING TECHNOLOGY 3-5 credits 290 Prerequisites: 101, 104 or permission. (May be repeated for a maximum of six credits.) Selected topics on subject areas of interest in Legal Assisting Technology.
- INDEPENDENT STUDY: LEGAL ASSISTING 3-5 credits Prerequisite: 101. (May be repeated for a maximum of six credits.) Selected topics and special areas of study in Legal Assisting Technology.

BUSINESS MANAGEMENT TECHNOLOGY

2420:

3 credits

4 credits

- 103 ESSENTIALS OF MANAGEMENT TECHNOLOGY 3 credits Survey of management principles for business and other organizations. Emphasizes the basic management functions including planning, organizing, staffing, influencing, and control.
- 104 INTRODUCTION TO BUSINESS IN THE GLOBAL ENVIRONMENT 3 credits Survey of business emphasizing the global nature of business and including entrepreneurship concepts, form, marketing, management, human resources, financial resources and production.
- 111 PUBLIC RELATIONS 2 credits Study of philosophy, techniques and ethics of the management function known as public relations. Defines variety of publics and methods of communication.
- 117 SMALL BUSINESS DEVELOPMENT 3 credits Prerequisite: 211 or permission. Introduction to small business and entrepreneurship: opportunities and qualifications for establishing, financing, operating and developing managerial policies and procedures for small business
- 118 FINANCIAL MANAGEMENT AND PLANNING FOR SMALL BUSINESS 4 credits Prerequisite: 212 and 117. Study of finance as applied to small business, including planning, budgeting, financing, financial accounting, and the use of financial software for small business.
- 125 ESSENTIALS OF PERSONAL FINANCE 3 credits Consumer decision making including credit and budgets, time value of money, major purchases, insurance, investments, tax planning, retirement and estate planning.
- 170 APPLIED MATHEMATICS FOR BUSINESS 3 credits Mathematics of business including retail pricing, simple and compound interest, discounts, mortgages, payroli, annuities, depreciation, inventory, insurance, taxes, stock and bonds, and basic statistics.
- 202 ELEMENTS OF HUMAN RESOURCE MANAGEMENT 3 credits Prerequisite: 103 or permission. Provides students with an overview of human resource management functions. Includes planning, EEO/AA, selection, development, legal environment, compensation, labor relations, appraisal systems and career planning.
- 211 BASIC ACCOUNTING I 3 credits Accounting for sole proprietorships operating as service and merchandising concerns. Introduction to financial statements. Includes handling of cash, accounts receivable, inventories, plant/equipment, and payroll
- 212 BASIC ACCOUNTING I 2 credits Prerequisite: 211. A study of accounting as it applies to partnership and corporate forms of business, includes stocks, bonds, cash flows, and financial statement analysis.
- 213 ESSENTIALS OF MANAGEMENT ACCOUNTING 3 credits Prerequisite: 211, Study of the interpretation and use of accounting data by management in decision making and the planning and controlling of business activities.
- 214 ESSENTIALS OF INTERMEDIATE ACCOUNTING 3 credits Prerequisite: 212. Study of development of financial accounting theory and its application to probnent generation, account valuation, analysis of working capital, and determilems of financial state nation of net income
- 215 COMPUTER APPLICATIONS FOR ACCOUNTING CYCLES 3 credits Prerequisites: 212, 213, 2540:270, Develops the skills of computer accounting as used in today's marketplace through hands on experience with general ledger accounting software.
- 216 SURVEY OF COST ACCOUNTING 3 credits Prerequisite: 213. Provides student with conceptual understanding of how accounting information is developed and used for product costing, decision making and managerial planning and control.
- 217 SURVEY OF TAXATION Prerequisite: 212. Survey course of basic tax concepts, research, planning, and preparation of returns for individuals, partnerships and corporations. Federal, state and local taxes are discussed.
- 219 BUSINESS ACCOUNTING PROJECTS 3 credits Prerequisites: 212, 213, 216, 2540:270. Capstone course for accounting: involves advanced problem and critical thinking on topics in financial, managerial, cost and tax accounting.
- 3 credits 220 APPLIED ACCOUNTING Prerequisites: 212, 213, 2540:270. An applied orientation focusing on all accounting functions through adjusted trial balance and basic payroll skills. Emphasis on skills required for the Certified Bookkeeping designation.
- **227 JENTREPRENEURSHIP PROJECTS** 4 credits Prerequisite: 117 and 118. Requires the student to research, design, and complete a comprehensive business plan which will become the blueprint for a new or existing business.
- 243 SURVEY IN FINANCE 3 credits Prerequisites: 170 and 211 and 2040:247 or permission. Survey of field including instruments, procedures, practices and institutions. Emphasis on basic principles
- 245 BUSINESS MANAGEMENT ACCOUNTING INTERNSHIP 3 credits Prerequisites: 212 and 213 or 215 and 216. An accounting field experience exposing the student to the actual accounting environment and general workplace.
- 250 PROBLEMS IN BUSINESS MANAGEMENT 3 credits Prerequisites:101, 103, 104, 212, 2540:270. Capstone course studies the development of solutions and the formulation of policies to solve business problems, emphasizes case studies, group projects, oral and written presentations.
- 280 ESSENTIALS OF BUSINESS LAW 3 credits History of the law and the judicial system, torts and criminal law affecting business, contracts with emphasis on sales under the UCC, and commercial paper.
- 290 SPECIAL TOPICS: BUSINESS MANAGEMENT TECHNOLOGY 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in business management technology.

•

REAL ESTATE

2430:

- 105 REAL ESTATE PRINCIPLES 3 credits Introduction to real estate as a profession, process, product and measurement of its productivity. The student is responsible for reading and discussions relative to real estate and the American system.
- 185 REAL ESTATE LAW 3 credits Prerequisite: 105. Contents of contemporary real estate law. The student is responsible for readings covering units on estates, property rights, license laws, contracts, deeds, mortgages, civil rights, and zoning.
- 245 REAL ESTATE FINANCE 2 credits Prerequisites: 105, 185. Study of contents of contemporary real estate finance. Units on reading and discussion include mortgage instruments, financial institutions, mortgage market, govern mental influence on finance, and risk analysis and mortgage lending.
- 255 VALUATION OF RESIDENTIAL PROPERTY 2 credits Prerequisites: 105, 185. Methods used to estimate value in residential property including cost of reproduction, market data and income approach. Student prepares an appraisal on a residential property
- 265 REAL ESTATE BROKERAGE 2 credits Prerequisites: 105, 185. Application of management functions of planning, organizing, directing, controlling and staffing to real estate brokerage office. Student activities include reading, discussion and research.
- 275 SPECIAL PROJECT IN REAL ESTATE 2 credits Prerequisites: 105, 185, 245, 255, and 265. Student demonstrates knowledge of real estate by preparing a written report covering brokerage process as it relates to a parcel of property.
- SPECIAL TOPICS: REAL ESTATE 1-3 credits Prerequisite: permission. Selected topics or subject areas of interest in real estate.

COMPUTER INFORMATION SYSTEMS

2440:

101 FUNDAMENTAL COMPUTER CONCEPTS

1 credit Bridge course designed to provide a general introduction to and general overview of fundamental computer concepts that will be necessary for subsequent computer-oriented courses.

102 INTRODUCTION TO WINDOWS

1 credit Bridge course includes instruction in Microsoft Windows operating system, as well as subdirectones, data transfer, and file management.

103 SOFTWARE FUNDAMENTALS

Bridge course is an introduction to various microcomputer software packages. Hands-on work provides the skills and knowledge to create word processing documents, spreadsheets and databases.

121 INTRODUCTION OF LOGIC/PROGRAMMING

Prerequisite: Must pass department placement test, admitted to program, or permission from program director. An introduction to business problem solving using computer-based solutions. Topics include structured design, documentation and modularity. Includes a component of hands-on proarammina

125 SPREADSHEET SOFTWARE

Emphasizes mastery of spreadsheet applications using Excel.

140 INTERNET TOOLS

Prerequisite: Must pass departmental placement test, complete bridge courses or permission from program director. This course concentrates on using the Internet as a tool in business. Topics include electronic mail and browsing with an emphasis on internet document publishing.

WEB SITE ADMINISTRATION

3 credits Prerequisites: 101, 102, 103, 2540:140. Provides step-by-step Web site administration guides such as selecting software and hardware, dealing with ISPs, domain name registration, structuring and updating content, analyzing security and legal issues, and implementing marketing strategies.

145 OPERATING SYSTEMS

rerequisite: Must pass departmental placement test, complete bridge courses or permission from program director. Course explores vital functions that an operating system performs. Single user and multi-user operating systems are studies from a functional and hands-on approach. 3 credits

JAVA PROGRAMMING 160

Prerequisite: 121. Course introduces the JAVA programming language. Programming techniques are demonstrated through the coding, testing and debugging of JAVA applications and applets.

170 VISUAL BASIC

Prerequisites: 121. Course includes hands-on experience with Visual BASIC, design of Graphical User Interface (GUI) applications, event-driven programming, linking of windows, and accessing relational databases.

175 MICROCOMPUTER APPLICATION SUPPORT

Prerequisites: 101, 102, 103 and 2540:140 or permission from program director. This course is an continuation of Software Fundamentals. In-depth use of word processing and spreadsheet software packages.

180 DATABASE CONCEPTS

Prerequisites: 121 and 145. Overview of models and functions of Database Management Systems. Deta definition and data manipulation in the relational model using SQL Introduction to database design.

- 201 CISCO NETWORKING I 4 credits Prerequisites: Bridge courses or placement test. The introductory course to Cisco networking. It includes study of the common network protocols and structures, inlouding the OSI reference model and the TCP/IP protocol.
- 202 CISCO NETWORKING I 4 credits Prerequisite: 201. The second course to Cisco networking. It covers basic router configuration as well as routed and routing protocols.
- 203 CISCO NETWORKING II 4 credits Prerequisite: 202. The third course to Cisco networking. Topics covered include advanced router configuration, LAN switching theory and design, VLANs and Novell IPX.
- 204 CISCO NETWORKING IV 4 credits Perecusite: 203. The fourth course to Cisco networking, Topics covered include Wide Area Network (WAN) theory and design, including PPP, Frame Relay, ISDN services and network troubleshooting.
- 210 CLIENT/SERVER PROGRAMMING 3 credits Prerequisites: 170 and 180. Introduces student to client/server programming. Includes hands-on experience using a Rapid Application Development (RAD) tool to show integration of database and program development.
- 211 INTERACTIVE WEB PROGRAMMING 3 credits Prerequisite: 140. Provides students with instruction on interactive Web programming using HTML, Common Gateway Interface (CGI) using Perl and JavaScript. Programming languages may change based on current industry practice.
- 212 MULTIMEDIA AND INTERACTIVE WEB ELEMENTS 3 credits rerequisite: 140. Reviews and demonstrates web tools and techniques like RealAudio, Shockwave, QuickTime, video conferencing and other dynamic graphical elements to engance Web-based communication. Multimedia software may change to reflect current technology.
- 234 ADVANCED BUSINESS PROGRAMINING 3 credits Prerequisite: 210. Course emphasizes programming and documentation skills to solve business problems, Topics include business application programming, file handling, and advanced data manipulation.
- 235 CURRENT PROGRAMMING TOPICS 2 credits Prerequisite: 170 and 180. Emphasizes new developments related to programming.
- 241 SYSTEMS ANALYSIS AND DESIGN 3 credits Prerequisite: 170 and 180. Covers all phases of business systems analysis, design, development, and implementation. Such principles as system flowcharting and file and document design emphasized.
- 245 INTRODUCTION TO DATABASES FOR MICROS 3 credits Prerequisite: 103. Explains fundamental data base concepts and provides hands-on experience using database software.
- 247 HARDWARE SUPPORT 3 credits Prerequisites: Admission to program or permission of program director. This course introduces the student to the basic skills required to troubleshoot, maintain and repair computers
- COMPUTER APPLICATIONS PROJECTS 3 credits Prerequisites: 210, 241 and 256. Using a simulated work environment, project teams are set up and required to analyze an unstructured problem, prepare alternative designs and implement a solution.
- 256 C⁺⁺ PROGRAMMING 3 credits Prerequisite: 160. This course explores object-oriented programming through C++ program development.
- 257 MICROCOMPUTER PROJECTS 3 months Prerequisite: 175 and 267. Course is designed to be the capstone course for the Microcomputer Specialist Option and will include integration of desktop applications resulting in a comprehensive project.
- 267 MICRO DATABASE APPLICATIONS 3 credits Prerequisite: 170 and 180. Students receive hands-on experience using a database applications package. Topics include database creation, organization, updates, queries and generation of reports.
 - NETWORK CONCEPTS 3 credits Prerequisite: Admission to program or permission from program director. An introduction to network concepts and terminology of network computing. Data communications, network components, the OSI reference model, and popular industry communication protocols are explored.
- 299 WORKSHOP 1-5 credits Workshops offered to meet community training needs.

MARKETING AND SALES TECHNOLOGY

2520:

2 credits

3 credits

2 credits

3 credits

3 credits

3 credits

3 credits

101 ESSENTIALS OF MARKETING TECHNOLOGY 3 credits

Survey of marketing including its environment, buyer behavior, target market selection, product decision, distribution decisions, promotion decisions, pricing decisions and marketing management.

- 103 PRINCIPLES OF ADVERTISING 3 credits Prerequisite: 101, Review of basic principles and functions of current advertising practice. Includes overview of related distributive institutions, media types and economic functions of advertising
- 202 RETAILING FUNDAMENTALS 3 credits Presents basic principles and practices of retailing operations, including site selection, buying, pricing and promotion practices. Use is made of extensive projects and investigations and actual retail operations.
- 204 SERVICES MARKETING 3 credits Prerequisites: 103 and 212. Corequisites: 202. Focuses on quality customer service and its role in marketing, Evaluation of customers' needs and expectations, interpretation of customer data and creation of service strategies.

- 206 RETAIL PROMOTION AND ADVERTISING 3 credits Prerequisite: 202. Studio course in retail display and promotion techniques. Window, interior and point of purchase categories; principles of design as applied to commercial art; function in visual design, elements of design, color theory, lettening, printing process, layout to camera-ready art.
- 211 MATHEMATICS OF RETAIL DISTRIBUTION 3 credits Prerequisite: 2420:170. Basic course dealing with merchandising mathematics. Includes understanding markup types, retail method of inventory (sales and stock planning), and opento-buy computations.
- 212 PRINCIPLES OF SALES 3 credits Study of basic principles of selling, emphasizing individual demonstrations and sales projects. Includes review of sales function as integral part of marketing process.
- 221 ADVERTISING CAMPAIGN 3 credits requisite: 103. Student will prepare an advertising campaign for a product assigned by the AAF. The campaign may be entered in the AAF national contest.
- 240 MARKETING INTERNSHIP 3 credits Prerequisite: permission. On-the-job work experience in a marketing environment in which students apply learned skills and concepts to practical business situations. Periodic reports and projects required as appropriate.
- 254 SALES MANAGEMENT TECHNOLGY 3 credits Prerequisite: 212 and 2030:151. Process relating to the formulation, implementation and control of a strategic sales program. Students will learn how to select, evaluate and motivate a sales force
- 290 SPECIAL TOPICS: MARKETING AND SALES 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in sales and merchandising.

OFFICE ADMINISTRATION

2540:

118 EXPLORING THE INTERNET

- 2 credits Prerequisite: 2440:101 or equivalent. Use of the Internet for conducting research and job searches, using e-mail, accessing personal and business information, and setting up and maintaining a web page
- 119 BUSINESS ENGLISH

Prerequisite: placement test. Fundamentals of English language with emphasis on grammatical correctness, acceptable usage, spelling and punctuation. Limited writing primarily involves choice of precise words and effective sentence structure with some attention to paragraph

- 120 KEYBOARDING SKILL DEVELOPMENT 1 credit Prerequisite: Previous keyboard training and keyboard familiarity. For students who want to increase keyboarding speed and/or accuracy. Individual goals are set after diagnostic timings. Drill assignments based on individual proficiency. (May be repeated for a maximum of 2 credits.)
- 121 INTRODUCTION TO OFFICE PROCEDURES 3 credits Prerequisite: 143 and basic typing skills. Introduction to concepts regarding role of office worker, human relations, communications, productivity, reference materials, technological advances in processing information and employment opportunities.
- 129 INFORMATION/RECORDS MANAGEMENT 3 credits Overview of records used in business. Includes filing procedures, equipment, supplies, classification systems, alphabetic rules, electronic database systems, and management and control of records systems
- **KEYBOARDING FOR NON-MAJORS** 140 2 credits Beginning keyboarding for the non-secretarial student. Fundamentals in the operation of the keyboard; application emphasis on individual student needs such as resumes, application letters and forms, term reports, abstracting, etc. Credit not applicable toward associate degree in Office Administration
- 143 MICROSOFT WORD, BEGINNING

Prerequisite: Basic touch typing skills. Introduction to word processing software for non-Office Administration majors. Training on personal computers for personal and business communications using Microsoft Word software.

MICROSOFT WORD, ADVANCED 144

Prerequisite: 143 or permission. Intermediate and advanced skills of Microsoft Word to include tables, importation of spreadsheets, outlines, advanced file management, macros, merges, labels and graphics.

BEGINNING KEYBOARDING

3 credits For the beginning student or one who desires a review of fundamentals. Includes basic keyboard, letters, tables and manuscripts. Minimum requirement: 30 wpm with a maximum of 5 errors for 5 mins. (Wayne campus only

INTERMEDIATE WORD PROCESSING 151

Prerequisite: 143 and basic typing skills. Further development of word processing skill. Advanced let ter styles, forms, reports, and shortcuts. Minimum requirement: 40 wpm with a maximum of 5 errors for 5 minutes

INFORMATION MANAGEMENT 241

Prerequisite: 150 or equivalent and basic typing skills. Study of creation, classification, encoding, transmission, storage, retention, transfer and disposition of information. Emphasis on written, or and machine language communication media used in business information systems. Offered at Wayne campus only.

243 INTERNSHIP

3 credits rerequisites: 119; 121; 129; 253; 270; and 281. Work experience in an office environment related to the student's degree major. Application of office administration skills/knowledge.

- 253 ADVANCED WORD PROCESSING 3 credits Prerequisites: 151. To increase student's ability to produce office documents on computers. Minimum requirement: 50 wpm with maximum of 5 errors for 5 minutes.
- 255 LEGAL OFFICE PROCEDURES I 3 credits Prerequisite: 151. Concentration on ethics, responsibilities, and document production for the career legal secretary. (Wayne campus only)
- BUSINESS COMMUNICATIONS 3 credits Prerequisites: 119 and 2020:121 or permission. Business writing with emphasis on communicating in typical business situations and expressing ideas effectively to achieve specific purposes. Includes business letters, memoranda, application letters, resumes, and a business report.
- 265 WOMEN IN MANAGEMENT 3 credits Deals with gender-related needs and problems of women in management and supervision
- 270 BUSINESS SOFTWARE APPLICATIONS 4 credits Prerequisite: 2440:101,102,103, 2540:140 or placement test or permission; Wayne College students — 2440:125, 2540:241, 253. Use of business application software and critical thinking skills to solve business problems. Word processing, spreadsheets, database, presentation software, integration of applications, and the Internet.

271 DESKTOP PUBLISHING 3 credits Prerequisites: 151 or permission. Desktop publishing software used to create printed materials such

as newsletters, brochures, business forms, and resumes. Course addresses design/layout decision and editing for the office worker.

- 273 COMPUTER-BASED GRAPHIC PRESENTATION 3 credits Prerequisites: 7600:105 or 106 and 2440:102. An introduction to the basic principles of preparation, design, and organization necessary to produce exciting and effective computerized graphic presentations. Current graphic software will be taught.
- 281 EDITING/PROOFREADING/TRANSCRIPTION 3 credits Prerequisites: 119,151. Editing and proofreading skills emphasized on the transcription of taped dictation, processing of rough-draft manuscripts, and drafting of original documents
- CAREER DEVELOPMENT FOR BUSINESS PROFESSIONALS 2 credits 289 Fundamentals of job search technique, professional image development and personal and interpersonal dynamics within the business environment.
- SPECIAL TOPICS: OFFICE ADMINISTRATION 1-3 credits 290 (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in office administration.
- 299 WORKSHOP 1-5 credits Workshops offered to meet community training needs.

TRANSPORTATION

2560:

3 credits

2 credits

2 credits

3 credits

3 credits

- 110 PRINCIPLES OF TRANSPORTATION 3 credits Analysis of role of transportation in nation's economic development. Survey of historical develop ment and economic aspects of rail, highway, water, air, and pipeline.
- 115 MOTOR TRANSPORTATION 3 credits Prerequisite: 110 is to be taken in the first semester of the first year of the program. Study of economic characteristics of commercial motor industry with emphasis on problems, practices, rates, regulations, fares, tariffs, operations, equipment, and financial aspects.
- 116 AIR TRANSPORTATION 2 credits Corequisite: 110. Analysis of economic characteristics of commercial air industry. Study of its problems, practices, regulations, rates, fares, tariffs, and services.
- 117 WATER TRANSPORTATION 2 credits Prerequisite: 110, Theories, practices, regulations of inland and ocean-going water transportation including classification, rates, practices, and tariffs.
- 118 TRANSPORTATION RATE SYSTEMS 3 credits Prerequisite: 110. Analysis of freight rates, tariffs and classifications with particular attention to their application in motor transport field and extensive study through progressive problem solving.
- TRAFFIC AND DISTRIBUTION MANAGEMENT 3 credits Prerequisite: 110. Principles and practices applicable to industrial traffic management and factors affecting transportation decisions. Some items analyzed are operations, services, warehousing, privileges, and documentation.
- 222 MICROCOMPUTER APPLICATIONS IN TRANSPORTATION 3 credits Prerequisite: 110; corequisite: 2440:120. Microcomputer solutions to selected transportation problems. Lease vs. buy analysis, modal selection based on cost, use of transportation algorithms, and computer simulations.
- 224 TRANSPORTATION REGULATION 3 credits Prerequisite: 110. Interstate Commerce Act and related acts including leading cases involving interstate commerce. Regulatory procedures including practice and procedure before federal regulatory agencies.
- TRANSPORTATION OF HAZARDOUS MATERIALS AND WASTES 227 2 credits Prerequisite: 110. Review of federal regulations covering hazardous material shipments; identification and classification of hazardous materials; marking; labeling; placarding; and documentation.
- SPECIAL TOPICS: TRANSPORTATION 290 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics, subject areas in transportation.

3 credits

MEDICAL ASSISTING

2740:

120	MEDICAL TERMINOLOGY Study of language used in medicine.	3 credits
121	STUDY OF DISEASE PROCESSES Prerequisite: 120. Study of diseases of major body systems.	3 credits
125	MEDICAL ASSISTING I Theory and practice in administrative medical assisting competencies such as legal a concepts, medical front-office responsibilities, and financial administration.	4 credits ind ethical
135	MEDICAL ASSISTING II Prerequisite: 125. Introduction to medical laboratory, theories and procedures esser medical assistant's career.	4 credits Intial for a
230	BASIC PHARMACOLOGY Overview of drugs used in a medical setting	3 credits
235	MEDICAL ASSISTING III Prerequisites: 125, 135. Advanced medical laboratory theories and practices essential ical assistant's career.	4 credits for a med-
240	MEDICAL TRANSCRIPTION I Prerequisites: 2540:119, 151; 120. Designed to correlate word processing and typing essary for the transcription of a physician's dictation.	<i>3 credits</i> skills nec-
241	MEDICAL RECORDS Prerequisites: 2540:130; 120. Introduction to insurance procedures and codings used cian's office.	<i>3 credits</i> in a physi-
242	MEDICAL TRANSCRIPTION II	3 credits

Prerequisites: 2540:119, 151; 120, 240. This course is an advanced medical transcription course. Emphasis will be placed on development of accuracy, speed, and medical knowledge for transcription of medical documents.

245 MEDICAL ASSISTING IV

Prerequisites: 2030:130; 2440:103; 2540:151, 256; 2780:106, 107; 2740:120, 125, 135, 235, 2302.0 accumulative GPA; permission from Medical Assisting Program Director. Corequisites: 121, 240, 241; 2420:211; other courses required for program completion. A seminar course including 200 hours of practical experience in ambulatory medicine where the student can apply administrative/clinical procedures with actual patient contact.

290 SPECIAL TOPICS: MEDICAL ASSISTING

Prerequisite: permission. Selected topics or workshops of interest in medical assisting technology.

RADIOLOGIC TECHNOLOGY 2760:

- 101 INTRODUCTION TO BADIOLOGIC TECHNOLOGY 2 credits Prerequisite: admission to the program. Introduction to field of radiology including history of ine and radiology. Ethical and professional responsibilities of radiologic technologist. Basic protection and basic skills. Orientation to radiology departments of affiliated hospitals. General patient care
- 140 MEDICAL AND SURGICAL DISEASES, RADIOLOGY 3 credits Prerequisites: 101 and 161. Fundamental principles of disease processes, functional derangements. Background in pathology needed for radiographer will be provided by lecture and demonstrations.
- 161 PHYSICAL SCIENCE FOR RADIOLOGIC TECHNOLOGY I 2 credits Prerequisites: 2030:130 or 2030:151 and permission. Introduction to systems of measurement. Matter, force, motion, work, power, energy, basic electricity, and magnetism.
- 165.6 RADIOGRAPHIC PRINCIPLES I. II

Sequential. Prerequisite: 161. Elementary principles of ionizing radiation and their application in medical setting. Radiographic accessories and chemical processing of exposed x-ray film. 3 credits

170 RADIOGRAPHIC POSITIONING I

Corequisite: 101. Introductory course in instructing student in basic positioning nomenclature and radiologic positions. Positioning laboratory experience included.

171 BADIOGRAPHIC POSITIONING II

Prerequisite: 170. Continuation of 170. Includes additional positioning and refinement of positioning strategies. Laboratory.

184 CLINICAL APPLICATION I

Corequisites: 101 and 170. Introduction to clinical procedures including clinical experience in hospital radiology departments. Lectures and laboratory experience correlated and clinical experience closely supervised. Film critique stressed. Observation rotation through nuclear medicine, therapy and diagnostic techniques. Largely student observation.

185 CLINICAL APPLICATION II

4 credits Prerequisite: 184. Continuation of 184 with more involvement by student continuing underclose supervision. Special procedures introduced. Student observations and student participation.

230 RADIOGRAPHIC TECHNIQUE AND CONTROL

Prerequisite: 261. Technique and control as related to basic positioning procedures for various parts of body. Relationship among electricity, time, distance, films and contrast on radiograph. A student performs experiments to demonstrate effects of these factors. Energized but nonclinical equipment utilized.

PHYSICAL SCIENCE FOR RADIOLOGIC TECHNOLOGY II 3 credits 261 Prerequisite: 161. Fundamentals of electricity and radiation physics. Principles of x-ray equipment and other radiation sources used in medical setting.

272 RADIOGRAPHIC POSITIONING III

Prerequisite: 171. Continuation of 171. Includes additional positioning and refinement of positioning strategies. Laboratory.

273 RADIOGRAPHIC POSITIONING IV 3 credits Prerequisite: 272. Continuation of 272 utilizing advanced techniques and providing concentration of different age groups in positioning care and special techniques for pediatric and geriatric patients, Laboratory,

286 CLINICAL APPLICATION III 5 credits Prerequisite: 185. Summer clinic internship in which student practices all radiographic procedures under supervision. Some independent performance with minimal supervision.

- 287 CLINICAL APPLICATION IV 4 credits Prerequisites: 286 and permission. Clinical performance with supervision. Application at an advanced level. Special techniques, nuclear medicine, therapy, medical surgical pathology, film examination and critique. Maintenance of equipment, department administration, ethical, legal, and professional responsibilities. Clinical experience in hospital radiology departments.
- 286 CLINICAL APPLICATION V 4 credits Prerequisite: 287. Clinical experience and minimally supervised clinical procedures of diagnostic radiography.
- 289 CLINICAL APPLICATION VI 5 credits Prerequisite: 288. Continuation of 288; final internship. Terminal course including review, lecture on correlation and interpretation of radiologic technology. Prepares student for certification examination.
- 290 SPECIAL TOPICS: RADIOLOGIC SCIENCE 1-3 credits (May be repeated with a change in topic) Prerequisite: permission. More advanced study in one or more topics in radiological sciences. Emphasis and topics vary from year to year but will be in areas where a formal course is not otherwise available

SURGICAL ASSISTING

2770:

1-2 credits

3 credits, 2 credits

3 credits

4 credits

3 credits

- 100 INTRODUCTION TO SURGICAL ASSISTING TECHNOLOGY 4 credits Prerequisite: admission to the program. Study of basic principles which underlie patient care in the operating room. Role of operating room technician and legal and ethical responsibilities defined.
- 221 SURGICAL ASSISTING PROCEDURES I 3 credits Prerequisite: Admission to the program. Corequisite: 100. Didactic and laboratory practice in principles and practices of surgical asepsis, the surgical patient, surgical procedures, care and maintenance of equipment and materials, immediate post-operative responsibilities and emergency situations in the operating room
- 222 SURGICAL ASSISTING PROCEDURES II 3 credits Prerequisite: 121. Corequisite: 232. Didactic and laboratory practice in principles and practices of surgical asepsis, the surgical patient, surgical procedures, care and maintenance of equipment and materials, immediate postoperative responsibilities and emergency situations in the operating room.
- 231 CLINICAL APPLICATION I 2 credits Prerequisite: Formal admission to the Surgical Assisting Technology Program. Corequisites: 100 and 121. Student assigned to surgical service of affiliated hospitals. Emphasis on aseptic tech-niques and skills associated with their implementation.
- 232 CLINICAL APPLICATION I 5 credits Prerequisite: 131; corequisite: 222. Student assigned to surgical service of affiliated hospitals. Emphasis on "scrubbing" on general surgery and gynecology procedures.
- 233 CLINICAL APPLICATION III 5 credits Prerequisites: 232 and 222. Student assigned to surgical service of affiliated hospitals. Emphasis on "scrubbing" in the specialty areas.
- 248 SURGICAL ANATOMY I 3 credits Prerequisites: 2780:107 and 120. Corequisite: 100. Emphasis on human anatomy and understanding the body in its three dimensions and the relationships of parts to one another in the various surgical specilialties.
- 249 SURGICAL ANATOMY II 3 credits Prerequisite: 148. Emphasis on human anatomy and understanding the body in its three-dimensions and the relationships of parts to one another in the various surgical specialties.
- 290 SPECIAL TOPICS: SURGICAL ASSISTING 1-2 credits Prerequisite: permission. Selected topics or workshops of interest in surgical assisting technology.

ALLIED HEALTH

2780:

- 106, 107 ANATOMY AND PHYSIOLOGY FOR ALLIED HEALTH I, II 3 credits each Prerequisite: permission. Introduction to the study of human structure and function. No laboratory.
- 290 SPECIAL TOPICS: ALLIED HEALTH 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in allied health.

RESPIRATORY CARE

2790:

121 INTRODUCTION TO RESPIRATORY CARE

Prerequisite: admission to program. Basic science and laws governing gases as well as appliances to administer and monitor oxygen. Covers equipment used to generate and give aerosol therapy. Lecture/laboratory.

122 RESPIRATORY PATIENT CARE

Prerequisites: 2780:106 (or equivalent) 2790:121. Corequisite: 2780:107 (or equivalent). Covers basic hospital practices in sterile technique, suctioning and postural drainage. Lecture/laboratory.

123 MECHANICAL VENTILATORS

Prerequisite: 122, 131, 141. Introduction to different brands of ventilators and their functions. Airway and airway complications.

131 CLINICAL APPLICATIONS I

Prerequisites: 121, 2780:106. Corequisite: 2780:107. Full admission to the program. (Implies the student has a clinical space. Students identified as Alternates do not have a clinical space.) Introduction to work in hospital and hands-on experience on hospital equipment. Laboratory

132 CLINICAL APPLICATIONS II

Prerequisites: 122, 131, 141, 2780:107 (or equivalent). First of several rotations through hospitals. Mechanical ventilation is stressed.

133 CLINICAL APPLICATIONS III

Prerequisites: 123, 132, 201, Semester is broken into three, five-week rotations, one at each hospital to cover specialty area for that site. Laboratory.

134 CLINICAL APPLICATIONS IV 5 credits Prerequisites: 133, 223, 242. Semester has three, five-week sessions. They will be spent at different clinical sites working on their specialty areas. Laboratory.

141 PHARMACOLOGY

2 credits Corequisites: 2820:105 and 3100:130. Drugs administered by respiratory therapy and effect, route of action in the body. Lecture.

201 ANATOMY AND PHYSIOLOGY OF CARDIOPULMONARY SYSTEMS 3 credits Prerequisite: 2780:107 (or equivalent). Study of normal anatomy and physiology of heart and lungs, Lecture.

223 ADVANCED RESPIRATORY CARE 3 credits Prerequisites: 123, 201. Covers EKG, Pulmonary functions, research studies and radioactive pulmonary function studies. Lecture/laboratory.

224 PULMONARY REHABILITATION AND THE RESPIRATORY 2 credits CARE DEPARTMENT

Prerequisites: 223, 242. Covers area of pulmonary rehabilitation. Includes essentials of establishing a respiratory therapy department. Lecture/laboratory.

242 PATHOLOGY FOR RESPIRATORY CARE 3 credits Prerequisites: 201, 3100:130. Discussion of disease processes, diseases of lung and heart, their effect on respiratory therapy.

290 SPECIAL TOPICS: RESPIRATORY CARE-

3 credits (May be repeated for a maximum of three credits) Prerequisite: permission. Selected topics or subject areas of interest in respiratory therapy technology.

GENERAL TECHNOLOGY

2820:

100 INTRODUCTION TO ENGINEERING TECHNOLOGY

This introductory course stresses skills needed for academic success. Discussion of fields in engineering technology, job searches, calculators and data measurement and analysis are included.

105 BASIC CHEMISTRY

3 credits Elementary treatment of facts and principles of chemistry emphasizing biological application. Elements and compounds important in everyday life, biological processes and medicine. introduction to laboratory techniques. Primarily for medical assistant, criminal justice and allied health students. Laboratory.

110 PHYSICAL SCIENCE FOR TECHNICIANS

Elementary presentation of theory and facts of general chemistry and physics (excluding electricity). Includes atomic structure, chemical reactions, energy, electromagnetic radiation, sound and mechanics.

111 INTRODUCTORY CHEMISTRY

Corequisite: 2030:152. Facts and theories of general chemistry. Elements and compounds and their uses. Elementary treatment of atomic structure, gaseous state, periodic table, water, solutions. Laboratory.

112 INTRODUCTORY AND ANALYTICAL CHEMISTRY

Prerequisite: 111 or permission. Chemical equilibria, ionization, radioactivity. Properties of select-ed metals and nonmetals. Introduction to organic chemistry. Basic concepts of qualitative analysis. Identifications of cations and anions. Laboratory.

TECHNICAL COMPUTATIONS

1 credit Prerequisite: 2030:151; corequisite for drafting technology students only: 2940:151. Use of com-puter to solve typical problems in engineering technology. Concepts of flow charting, looping, variables, arrays, subroutines examined. BASIC computer language introduced.

- 131 SOFTWARE APPLICATIONS FOR TECHNOLOGY 1 credit Prerequisite: 2030:151. Operating systems basics. Internet usage and searches. Emphasis on using spreadsheets to analyze and graph data, databases for data input, and technical report compilation.
- 161 TECHNICAL PHYSICS: MECHANICS I 2 credits Coreguisite: 2030:152. Principles of mechanics that include motion, vectors, forces, equilibrium; also, significant figures and unit conversions. Laboratory.
- 162 TECHNICAL PHYSICS: MECHANICS II 2 credits Prerequisite: 161; corequisite: 2030:153. Principles of mechanics that include work, power, conservation of energy, rotational motion, torque. Laboratory.
- 163 TECHNICAL PHYSICS: ELECTRICITY AND MAGNETISM 2 credits Prerequisites: 161; corequisite: 2030:153. Principles of electricity and magnetism. Electrostatics, basic direct current circuits, magnetism and electromagnetism, alternating currents, basic AC circuits. Laboratory.
- 164 TECHNICAL PHYSICS: HEAT AND LIGHT 2 credits Prerequisites: 161 and 2030:153. Topics include thermal behavior of matter, thermodynamics, light, geometric and physical optics. Introduction to atomic and nuclear physics.
- 290 SPECIAL TOPICS: GENERAL TECHNOLOGY 1-2 credits (May be repeated for a total of four credits.) Prerequisite: Permission. Selected topics of subject areas of interest in General Technology.
- 310 PROGRAMMING FOR TECHNOLOGISTS 2 credits Prerequisites: 121 and 2030:153. An in-depth study of a technical programming language, plus basic operating system commands and hardware configurations. Limited to students in Engineering and Science Technology Department.

ELECTROMECHANICAL SERVICE TECHNOLOGY

2830:

3 credits

3 credits

3 credits

3 credits

5 credits

2 credits

3 credits

3 credits

- 110 ELECTROMECHANICAL DEVICES 4 credits Prerequisite: 2860:110. Application-oriented study of electromagnetic sensors and the electronic devices and circuits used to implement industrial control sensors.
- 210 MOTION CONTROL I 4 credits Prerequisite: 110. Principles, applications, and troubleshooting of AC and DC electric generators and motors. Introduction to basic mechanical and motion control.
- 220 MOTION CONTROL II 3 credits Prerequisite: 210, Integration of basic devices with the speed and position controlling systems for DC and AC motors, servomotors, stepper motors, and hydraulic valves and cylinders.
- 230 MACHINE AND PROCESS CONTROL 4 credits Prerequisite: 110. Introduction to the integration of control components into a complete industrial machine or process control system. Study of the types of systems and the required documentation

240 INDUSTRIAL COMPUTER CONTROL Prerequisite: 110. Introduction to digital electronics as it applies to industrial control. Survey of

number systems, basic digital devices, microprocessors, microcomputer-based control components

3 credits

3 credits

PROGRAMMABLE CONTROLLERS

Safety practices are emphasized

Prerequisite: 230. Principles of operation, application, and troubleshooting of programmable controllers. Includes programming of ladder logic systems.

260 ELECTRICAL POWER AND WIRING 3 credits A study of electrical power distribution, residential, commercial, industrial winno, and electrical

safety. Emphasis on the requirements of the National Electrical Code. 270 TROUBLESHOOTING AND REPAIR PRACTICES 3 credits Prerequisite: 210, 230. Surveys mechanical, hydraulic, pneumatic, electrical, and electronic troubleshooting and repair practices. Problem isolation, repair, and shop practices are considered.

POLYMER TECHNOLOGY

2840:

111 POLYMER TECHNOLOGY I

3 credits introduction to chemical and physical structure, properties and applications of polymers. Interaction between materials properties, product design and processing. CHaracterization of the major processes.

112 POLYMER TECHNOLOGY

3 credits Prerequisite: 111. This course emphasizes the processing of thermoplastics and thermosetting plastics. The laboratory introduces students to some of the major processes and equipment operation

202 INSTRUMENTAL METHODS

4 credits Prerequisites: 2820:111, 2840:111, 2860:110. Instrumentation employed in qualitative and quantitative analysis. Theory and practice in chromatographic, spectrophotometric and other instrumental methods, Laboratory,

3 credits

2 credits

4 credits

A credite

3 credits

211 POLYMER TECHNOLOGY III

Prerequisites: 2820:131, 2840:101, 112. This course emphasizes the testing and characterization of materials used in polymer product fabrication, and the testing and analysis of finished polymer products.

220 CASE STUDIES IN POLYMER DESIGN AND PROCESSING 2 credits Prerequisite: 211. Combines study of polymer properties, processing, and design guidelines to analyze complete manufacturing, testing, and quality assurance programs. Examples of significant applications analyzed in detail.

260 COMPOUNDING METHODS 2 credits Principles and methods of selecting and compounding rubber for specific end uses. The compounder's art. Processing and testing of basic elastomers and products. Laboratory.

270 NATURAL AND SYNTHETIC ORGANIC POLYMERS

4 credits Prerequisite: 121 or permission. Structure and properties of macromolecules with particular reference to carbohydrates, proteins, nucleic acids, rubber, synthetic thermoplastic, thermosetting and elastomeric polymers

281 POLYMER PROJECT

2 credits Prerequisite: 211. Student teams, choosing their own projects, design a polymeric product, select materials, processes, and simulate design and development of the product. Individual final reports required.

290 SPECIAL TOPICS: POLYMER TECHNOLOGY

1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in polymer technology.

ELECTRONIC ENGINEERING TECHNOLOGY

2860:

110 BASIC ELECTRICITY AND ELECTRONICS

4 credits Corequisite: 2030:151 or 2030:161. Principles of electronics: resistors, inductance, capacitance transistors, microprocessors, power sources, motors, generators, test equipment, circuit diagnosis, troubleshooting. Credit not applicable toward the A.A.S. in Electronic Technology.

120 DC CIRCUITS

4 credits Corequisite: 2030:152, 153. SI units, current, voltage, resistance, Ohm's Law, circuit analysis techniques, network theorems, computer simulation analysis, inductor, capacitor, RLC dc analysis, transients, laboratory support of circuit concepts.

122 AC CIRCUITS

3 credits Prerequisite: 120; corequisites: 2030:154 and 2820:131. Sinusoidal voltage and current, reactance and impedance, methods of AC circuit analysis, AC power, transformers, AC meters and oscilloscopes, dependent and independent sources.

123 ELECTRONIC DEVICES

3 credits Corequisite: 122. Physical theory, characteristics and operational parameters of solid-state electronic devices. Analysis and design of electronic circuits incorporating these devices, utilizing characteristic curves and linear modeling.

DIGITAL FUNDAMENTALS

Prerequisite: 110 or 120. Corequisite: 2440:103 or 2820:131. Number systems, binary codes, two's complement representation of signed numbers, logic, logic circuits, Boolean algebra, Kamaugh maps, computer modeling of logic circuits.

206 PERSONAL COMPUTER MAINTENANCE

Corequisite: 217. Personal computer fundamentals, software diagnostics to isolation of hardware faults. Set up, maintain, diagnose, repair, upgrade personal computers. Not applicable towards an EET degree

217 SURVEY OF DIGITAL ELECTRONICS

Prerequisite: 136. Adders, flip-flops, data storage, counters, shift registers, memory. This course also includes an introduction to computer architecture and hardware. Credit not applicable toward the A.A.S. in Electronic Engineering Technology.

225 ELECTRONIC DEVICES APPLICATIONS

Prerequisite: 136. Adders, flip-flops, data storage, counters, shift registers, memory. Introduction to computer architecture and hardware. Not applicable towards an Electronic Engineering Technology degree.

CONTROL PRINCIPLES

Prerequisites: 225, 2030:255. Principles and design for control of physical systems. Mathematical and analog computer modeling of physical systems. Principles of closed-loop control systems. Design of simple servomechanisms.

- 237 DIGITAL CIRCUITS 4 credits Prerequisites: 123 and 136. Devices used in logic circuits, interfacing, combinational logic, arithmetic circuits, encoders, multiplexers, programmable logic devices, flip-flops, counters, shift registers, computer modeling of digital circuits.
- 238 MICROPROCESSOR APPLICATIONS 4 credits Prerequisite: 237. Programmable logic devices, computer modeling of digital circuits, memory circuits. Computer architecture, programming the microprocessor, microprocessor hardware, microprocessor applications, parallel I/O and programmable timers.
- 242 MACHINERY AND CONTROLS 3 credits Prerequisites: 122 or 270. Study of DC and AC motors and generators and their control. Fundamentals of power transformers. Three-phase distribution and motor control. Principles of industrial electronic devices.
- COMMUNICATIONS CIRCUITS 3 credits Prerequisite: 225. Resonance, coupling, filters, oscillators, mixers, power amplifiers, AM, FM, receivers.
- 255 ELECTRONIC DESIGN AND CONSTRUCTION 2 credits Prerequisite: 123. Drafting fundamentals. Printed circuit board layout. Shop safety practices. Tool care and use. Chassis and sheet metal layout and fabrication; metal finishing, packaging techniques
- 260 ELECTRONIC PROJECT 2 credits Prerequisites: final semester or permission and 2940:210. Design, construction, and testing of an electronic circuit of choice. Progress reports, oral, and a formal written report required. Discussion of electronic design, fabrication, and troubleshooting techniques.
- 270 SURVEY OF ELECTRONICS I 3 credits Prerequisite: 2820:163. Fundamentals of DC and AC electrical circuits and rotating machinery. For non-electronic technology majors.
- 271 SURVEY OF ELECTRONICS II 3 credits Prerequisite: 270. Survey of the most commonly used solid-state circuit components including typical applications. Introduction into digital circuits and microprocessor applications. For nonelectronic technology majors.
- 280 MICROPROCESSOR MAINTENANCE PRACTICUM/SEMINAR 3 credits rerequisite: 206, 217. Setup, maintain, diagnose, repair, upgrade personal computers, peripheral devices. Include teamwork, assisting others and review alternative solutions. Not applicable towards an Electronic Engineering Technology degree.
- 350 ADVANCED CIRCUIT THEORY 3 credits Prerequisite: 225, 231. Corequisite: 2030:356. Nodal, mesh, Thevenin, and dependent sources in resistive circuits. Inductor and capacitor as time domain elements. First- and second-order circuit analysis. Phasor analysis. Operational amplifier analysis.
- 352 MICROPROCESSOR SYSTEMS

Prerequisite: 238; corequisite: 350. Study of microprocessors and microcomputers, topics in architecture, assembly language, software, operating systems, I/() interface circuits. Specific systems studied include the 8088 and the IBM PC.

4 credits

4 credits

3 credits

3 credits

- 354 ADVANCED CIRCUIT APPLICATIONS rerequisites: 350; 2030:356; and 3460:201 or 3460:205 or 2820:310. Introduction to PSPICE.
- Calculating electrical power. Series and parallel resonance. LaPlace transforms in operational circuit analysis. Transfer functions, impulse function, Bode diagrams, Fourier Series.

400 COMPUTER SIMULATIONS IN TECHNOLOGY

Prerequisites: 354, 2030:345, 3460:201 or 205 or 2820:310. Software simulation of electronic circuits. Production of circuits is simulated using random generation of components. Output is presented using both 2- and 3- dimensional techniques.

406 COMMUNICATION SYSTEMS

Prerequisites: 251 and 354. Digital communications, transmission lines, waveguides, microwave devices and antennas.

- 420 BIOMEDICAL ELECTRONIC INSTRUMENTATION 3 credits Prerequisite: 354. Introduction to electrical signals from the body, transducers, recording
- devices, telemetry, microprocessor applications, and electrical safety of medical equipment. 430 SENIOR TOPICS IN ELECTRONIC TECHNOLOGY 3 credits
- Prerequisites: 354, 400. Study of advanced topics in electronic technology.
- INDUSTRIAL ELECTRICAL SYSTEMS 451 3 credits Prerequisites: 354, 3460:201 or 205 or 2820:310. Electric power, industrial nameplates, power factor correction, mutual inductance, linear transformers, power transformers, polyphase systems, per-phase analysis, system grounding, protective device coordination computeraided analysis
- 453 CONTROL SYSTEMS 4 credits Prerequisites: 231, 354. Modeling and responses of closed-loop systems. LaPlace transforms, root-locus analysis. Stability, compensation, digital control, optimal control. Digital computer in system simulation and design.
- 497 SENIOR HONORS PROJECT: ELECTRONIC TECHNOLOGY 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program, permission of department preceptor and major in electronic technology. Independent research leading to completion of Senior Honors Thesis or other original work.
AUTOMATED MANUFACTURING ENGINEERING TECHNOLOGY

2870:

- **301 COMPUTER CONTROL OF AUTOMATED SYSTEMS** 3 credits The development of computer based systems and computer programs using robotics and machine controllers as the solutions for automated manufacturing problems.
- 311 FACILITIES PLANNING Prerequisite: 2940:180 or 2940:210 or permission. An application based study of facilities analysis. desion and lavout utilizing software based solutions.
- 348 CNC PROGRAMMING I 3 credits Prerequisites: 2940:121, 2030:154; or permission. Introduction to numerical control (IV/C) of operation of machine tools and other processing machines. Includes programming, types of IV/C systems, economic evaluation.
- 420 MATERIALS AND PROCESSES 2 credits A study of part production from the aspect of the proper selection of materials and processes.
- 141 ADVANCED QUALITY PRACTICES 3 credits Prerequisites: 2880:241 or permission. Specific quality assurance procedures will be developed conceptually, proven mathematically, and then tested in lab exercises. Industry accepted SQC software will be used.

448 CNC PROGRAMMING I

- Prerequisite: 348. Introduction to computer-assisted interactive part programming system. Writing of milling and drilling programs.
- 470 SIMULATION OF MANUFACTURING SYSTEMS 3 credits Prerequisite: 2880:211. Computer simulation solutions applied to the traditional manufacturing problems of equipment justification production line balancing, and capacity planning.

480 AUTOMATED PRODUCTION

Prerequisites: 2880:211 or senior status. A study of the automated production system. The various systems studied thus far, CNC, robotics, automated machines via PLCs, and facilities design, are integrated and analyzed from a production standpoint. The issues of line balance, reliability, queue sizing, and personnel matters are included.

490 MANUFACTURING PROJECT

Prerequisite: Senior status. Advanced CADCAM topics are presented. A comprehensive project is undertaken.

495 INDIVIDUAL INVESTIGATION IN MANUFACTURING 2 credits ENGINEERING TECHNOLOGY

Selected topic(s) that provide for specific individual study in the area of manufacturing engineering technology under the direct supervision of a faculty member.

- 496 SPECIAL TOPICS IN MANUFACTURING ENGINEERING TECHNOLOGY 1-3 credits Prerequisite: permission. Selected topic(s) that provide for specific course work in the area of manufacturing engineering technology offered once or only occasionally in areas where no formal course exists.
- 499 WORKSHOP IN MANUFACTURING ENGINEERING TECHNOLOGY 1-3 credits Prerequisite: permission. Group studies of special topics in manufacturing engineering technology.

MANUFACTURING ENGINEERING TECHNOLOGY

2880:

3 credits

3 credits

2 credits

- 100
 BASIC PRINCIPLES OF MANUFACTURING MANAGEMENT
 4 credits

 A survey of basic concepts of management and their interrelationships to a manufacturing environment. Includes production control, quality control, work measurement, and employee motivation.
 10

 MANUFACTURING PROCESSES
 2 credits
- Study of the machines, methods, and processes used in manufacturing.
- 130
 WORK MEASUREMENT AND COST ESTIMATING
 3 credits

 Prerequisite:
 100. Time and motion study. Development of accurate work methods and production standards, and their relationship to manufacturing cost estimates.
 3
- 151 INDUSTRIAL SAFETY AND ENVIRONMENTAL PROTECTION 2 credits A contemporary overview of the science and management of occupational health and safety programs, policies, and procedures in an industrial and business type environment.
- 201 ROBOTICS AND AUTOMATED MANUFACTURING 3 credits Prerequisite: 100 or permission of instructor. Study of manufacturing automation and the computer-based products and processes available for this task. Robots, machine controllers, and machine/process interfaces are investigated.
- 210 CONTROLLING AND SCHEDULING PRODUCTION 2 credits Prerequisite: 100. Production order followed from sales order through requisitioning, plant loading, expediting, scheduling and shipping. Also covers material control and inventory record keeping. Critical path, linear programming and EDP techniques discussed.
- 211 COMPUTERIZED MANUFACTURING CONTROL 3 credits Prerequisite: 100. Processing of production order by computer through requisitioning, plant loading, expediting, scheduling and shipping of product. Creation on computer of material requisitions, plant schedules, sent-to-stocks and shipping orders as by-products of processing production order.
- 232 LABOR MANAGEMENT RELATIONS 3 credits Prerequisite: 100. Study of historical background of labor movement, management viewpoints,
- legal framework for modern labor organizations and collective bargaining process.
 241 INTRODUCTION TO QUALITY ASSURANCE 3 credits
 Prerequisite: 100 and 2030:152. Theory and practice of inspection and sampling techniques for
 measurement of quality, QC charts, sampling plans, mill specs, checking machine capabilities,
 and setting tolerances.
- 290 SPECIAL TOPICS: MANUFACTURING TECHNOLOGY 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in industrial technology.

MECHANICAL ENGINEERING TECHNOLOGY

2920:

- 101 INTRODUCTION TO MECHANICAL DESIGN 3 credits Prerequisite: 2940:121; corequisite: 2030:154. Topics in engineering drawing: conventions, sections, dimensioning and tolerancing. Detail drawings, subassembly and assembly drawings. Manufacturing processes. Descriptive geometry. Drawing mechanical components.
- 110 FUNDAMENTAL SCIENCE FOR AUTOMOTIVE TECHNOLOGY 4 credits Prerequisite: 2030:130 with grade C or better. Scientific relationships of automotive systems: force, work, energy, friction, fluid properties, and thermodynamic principles of the engine. Credit not applicable toward the A.A.S. in Mechanical Technology.
- 130 INTRODUCTION TO HYDRAULICS AND PNEUMATICS 3 credits Principles of hydrostatic forces, pressure, density, viscosity, incompressible and compressible fluids. Principles of hydraulic and pneumatic devices and systems.
- 142
 INTRODUCTION TO MATERIAL TECHNOLOGY
 3 credits

 Fundamental properties of materials. Material testing. Applications of methods to control material properties.
 243

 243
 KINEMATICS
 2 credits
- 245 KINEWA INCS 2 CERTIS Prerequisite: 101 and 2990:125. Study of ngid-body motions of simple linkages, cams, gears and gear trains. Graphical vector solutions emphasized. Industrial applications presented.
- 245 MECHANICAL DESIGN II 5 credits Prerequisites: 142; 2940:210; 2990:241. Corequisite: 2920:243 Design of machine elements: springs, shafts, fasteners, welded joints. Combined stress and fatigue analysis. Design projects. Experimental stress analysis.
- 247 TECHNOLOGY OF MACHINE TOOLS 3 credits Set up and operation of tool room machines: lathe, drill press, shaper, milling machine, and tool grinder. Planning operations and layout.
- 249 APPLIED THERMAL ENERGY I 2 credits Prerequisites: 2030:255, 2820:164. Thermodynamic principles. Study of power cycles. Applications in I.C. engines, compressors, steem power cycles, refrigeration.
- 251 FLUID POWER 2 credits Prerequisites: 2820:162, 164. Statics and dynamics of fluids. Viscosity, energy and momentum relationships. Fluid machinery and measurements.

252 THERMO-FLUIDS LABORATORY

1 credit Prerequisite: 251; corequisite: 249. Laboratory experiments in applied thermal energy and fluid power.

- SPECIAL TOPICS: MECHANICAL ENGINEERING TECHNOLOGY 290 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in Mechanical Engineering Technology.
- 310 ECONOMICS OF TECHNOLOGY

3 credits Prerequisite: 64 credits or permission. Economic principles as they pertain to technology. Equivalence, alternatives, costs, depreciation, valuation. Project studies.

335 WELDING, THEORY AND PRACTICE 3 credits Prerequisite: 142. Design of weldments and welding processes. Welding of ferrous, nonferrous and plastic materials.

WELDING PROJECTS 336

1 credit Prerequisite: 335. Individual projects containing elements of analysis, design and laboratory implementation.

339 ADVANCED TECHNOLOGY OF MACHINE TOOLS 2 credits Prerequisite: 247, 142. Selected topics dealing with sophisticated metal cutting techniques.

344 DYNAMICS

2 credits Prerequisites: 243; 2030:255; 2990:125. Introduces particle dynamics, displacement, velocity, and acceleration of contained rigid bodies in plane motion. Kinetics of particles and rigid bodies, work and energy, mechanical vibrations,

346 MECHANICAL DESIGN HI

Prerequisites: 244, 245; 2820:310. Continuation of design of mechanical components: gears, bearings, brakes, and clutches. Special topics presented will be coordinated with assigned design projects.

347 PRODUCTION MACHINERY AND PROCESSES

Prerequisites: 245, 247 and 2030:255. Study of manufacturing processes (casting, forging, welding, forming sheet metal), integrating material technology, mechanical design, and mechanics of materials.

365 APPLIED THERMAL ENERGY II

Prerequisites: 249, 251. Review of thermodynamic principles with application to the design of heating and air conditioning systems. Includes basic heat transfer and heating and cooling load calculations

370 PLASTICS DESIGN AND PROCESSING

Prerequisites: 142, 2840:101 (or permission), and 2990:241. Introduction to structure and properties of polymers, selection based on properties and cost, design of products and tools, basic principles of the major processes.

402 MECHANICAL PROJECTS

1 credit Prerequisite: senior standing. Individual projects emphasizing creative technical design.

405 INDUSTRIAL MACHINE CONTROL

3 credits Prerequisite: 2860:270. Principles and design of industrial machine control systems. Application oriented study of typical control devices. Utilization of programmable controllers as the system ogic controllers.

470 PLASTICS PROCESSING AND TESTING

2 credits Prerequisites: 370 or permission. Use of basic polymer testing methods. Setup and operation of modern molding and extrusion equipment. Basic troubleshooting procedures. Study of processing effects on final properties.

497 SENIOR HONORS PROJECT IN MECHANICAL ENGINEERING TECHNOLOGY 1-3 credits (May be repeated for a total of six credits) Prerequisites; senior standing in Honors Program, permission of area honors preceptor and major in mechanical technology. Independent research leading to completion of senior honors thesis or other original work.

DRAFTING AND COMPUTER DRAFTING TECHNOLOGY

2940:

121 TECHNICAL DRAWING I

3 credits Lettering and proper use of drawing instruments; freehand sketching; geometric drawing; orthographic projection; auxiliary views, sections, pictorials; introduction to basic descriptive geometry.

122 TECHNICAL DRAWING II

Prerequisite: 121, 210. Covers dimensioning; allowances and tolerances; geometric tolerancing; threads and fasteners; descriptive geometry; intersections; developments; and computer applications.

140 SURVEY OF ENGINEERING TECHNOLOGY

Prerequisite: 2030:151. Introductory course in basic concepts pertaining to mechanical, civil and electrical technology. A study of technical terminology, and applied math. Graphical solutions will be emphasized.

150 DRAFTING DESIGN PROBLEMS

Prerequisite: 2030:152. Introductory course in basic concepts in engineering technology computations. A study of technical terminology and applied mathematics.

170 SURVEYING DRAFTING

Prerequisite: 121; corequisite: 2030:152. Drafting procedures, techniques and tools required for the various phases of survey office work. Projects in topographic maps, plan and profile drawings, and cross-section drawings.

180 INTRODUCTION TO COMPUTER AIDED DRAFTING

Drafting techniques using AutoCAD. Topics include drawing, editing, dimensioning, plotting, lavers and text. Credit not applicable toward the AAS in Drafting and Computer Aided Drafting Technology.

200 ADVANCED DRAFTING Prerequisite: 122. Principles of descriptive geometry applied to practical problems pertaining to the civil and mechanical fields of technology

210 COMPUTER AIDED DRAWING I 3 credits Drafting procedures and techniques used for creating drawings using AutoCAD software. Topics include basic components, drawing, editing, dimensioning, layers, text, blocks, plotting and hatch.

211 COMPUTER AIDED DRAWING II 3 credits Prerequisite: 2940:210. Continuation of 2940:210. This course covers advanced topics in the use of AutoCAD. Those topics include UCS, VPoint, DView, wire frames, Boolean functions, custornization, and AutoLISP.

230 MECHANICAL SYSTEMS DRAFTING 3 credits Prerequisite: 122. Drawing fundamentals and terminology of welding, gears, cams, piping, sheet metal, and fluid power drawings.

- 240 ELECTRICAL AND ELECTRONIC DRAFTING 3 credits Corequisite: 122. Drafting fundamentals, terms, and symbols required for electrical, electronics, and instrumentation drawings. Included are interconnecting diagrams, PC boards, and architectural and industrial plans
- 250 ARCHITECTURAL DRAFTING 3 credits Prerequisite: 121. Drawing fundamentals, terminology, and symbols for developing a set of basic construction plans and details. Included also are presentation drawings and intenor and exterior planning.
- 260 DRAFTING TECHNOLOGY PROJECT 3 credits Prerequisite: Completion of 20 credits of 2940. Provides opportunity to research and develop a specific drafting project within chosen field of interest.
- 290 SPECIAL TOPICS: DRAFTING TECHNOLOGY 1-3 credits (May be repeated for a total of three credits) Prerequisite: permission. Selected topics on subject areas of interest in drafting technology.

SURVEYING AND CONSTRUCTION ENGINEERING TECHNOLOGY

2980: 101 BASIC SURVEYING L

4 credits

2 credits

3 credits

3 credits

3 credits

2 credits

3 credits

3 credits

2 credits Corequisites: 2030:152. Care and use of basic surveying field instruments used in land surveying. Instruments include: Transit, Theodolite, Total Stations, Steel Tape, EDMs, and Levels. Field practice.

102 BASIC SURVEYING II 2 credits Prerequisites: 101 and 2030:153. Corequisite: 180 or equivalent. The computation and adjustment of field survey measurements using both conventional and computer methods. Final product production in both tabulated and graphic representations stressed.

122 BASIC SURVEYING

3 credits Basic tools and computations for surveying; measurements of distance, elevations and angles; traverse surveys. Field practice.

123 SURVEY FIELD PRACTICE

2 credits Prerequisite: 122. Practical experience in use of surveying equipment and methods of surveying. Provides student with responsibility for making decisions and planning and directing complete project.

- 222 CONSTRUCTION SURVEYING 3 credits Prerequisite: 122. Methods and procedures for establishing line and grade for construction. Circular, spiral and parabolic curves. Cross-sectioning methods and earthwork. Field practice.
- 223 FUNDAMENTALS OF MAP PRODUCTION 3 credits Prerequisite: 2940:180. Introduction to the art and science of maps and map production. Course includes the history of mapping and an overview of the field of cartography.
- 225 ADVANCED SURVEYING 3 credits Prerequisite: 122. Introduction to theory of errors, precise leveling, baseline measurements, triangulation, trilateration and bearings from celestial observation. Photogrammetry. Field practice.
- 227 INTRODUCTION TO GEOGRAPHIC AND LAND INFORMATION SYSTEMS 3 credits Prerequisites: 223, 2820:131 and 2940:180. Introduction to the principles and concepts of Geographic Land Information Systems used in surveying and mapping application. Laboratory.

228 BOUNDARY SURVEYING 3 credits Prerequisites: 102 or equivalent. Analysis of evidence and procedures for boundary location establishing and/or locating points, for boundary, mortgage location, topographic, site plans, and as-built surveys.

- 290 SPECIAL TOPICS: SURVEYING AND CONSTRUCTION TECHNOLOGY 1-3 credits Prerequisite: permission. Selected topics or subject areas of interest in surveying and construction technology
- 310 SURVEYING COMPUTATIONS & ADJUSTMENTS 2 credits Prerequisite: 12 credits of Surveying courses. Concepts relating to measurement error, probability, and reliability. Computation and adjustment of horizontal and vertical networks. Use of the HP48GX calculator in solving surveying problems.
- 315 BOUNDARY CONTROL & LEGAL PRINCIPLES 3 credits Prerequisite: 12 credits in surveying courses or permission. Historical development of boundaries, rectangular system of public land surveys, systems to describe property, wording and interpretation of deed descriptions, surveyor's rights, duties and responsibilities.
- 355 COMPUTER APPLICATIONS IN SURVEYING 3 credits Prerequisites: 2940:210 and 12 hours of surveying courses. Use of current surveying software to solve typical problems/projects in surveying technology.

2 credits

3 credits

2 credits

3 credits

3 credits

2 credits

1-3 credits

1-3 credits

3 credits

2 credits

3 credits

3 credits

2 credits

- 415 LEGAL ASPECTS OF SURVEYING 3 credits Prerequisite: 122. A study of statute and common law related to land surveying. Case studies related to legal precedent and the surveyor's role in the judicial process.
- 420 ROUTE SURVEYING 3 credits Prerequisite: 225. Surveying for long but narrow strips of land such as highways, railroads, and pipe lines. Course includes all requisite calculations and drawings.

422 GPS SURVEYING

Prerequisite: 2980:102. Introduction to the Global Positioning System (GPS). Course includes the planning, data collection, and processing of GPS data.

421 SUBDIVISION DESIGN 3 credits Prerequisite: 229. Site analysis, land use controls, and plotting procedures. Laboratory includes preparation of various type of projects leading to a complete subdivision.

425 LAND NAVIGATION

Interpretation and use of topographic maps. Study of basic map elements with emphasis on tification of features and coordinate systems. Map use for land navigation.

426 HISTORY OF SURVEYING

ective study of the history of land surveying. Emphasis on the development of surveying procedures as they relate to math, science and technology.

430 SURVEYING PROJECT

Prerequisite: senior standing and permission. Provides opportunity to research and develop a specific surveying project within chosen area of surveying. Oral, written and graphical presentation of completed project(s).

445 APPLICATIONS IN GIS USING GPS

Prerequisite: 227 and 422. Advanced instruction in GIS applications using GPS as well as other surveying and mapping methods. Laboratory and field trips.

TOPICS IN PROFESSIONAL PRACTICE

Prerequisite: Junior standing. Topics in applicational areas of surveying from the point of view of the practitioner and the consumer of land-related data.

489 SPECIAL TOPICS IN SURVEYING

Prerequisite: permission. Special lecture/laboratory courses offered once or only occasionally in areas where no formal course exists. (May be repeated for a maximum of six credits.)

490 WORKSHOP IN SURVEYING Prerequisite: permission. Group study of special topics in surveying. May not be used to meet undergraduate major requirements in surveying. May be used for elective credit only. (May be

repeated for a maximum of six credits.) 1-3 credits

498 INDEPENDENT STUDY

Prerequisites: permission of instructor. Directed study in a special field of interest chosen by student in consultation with instructor (may be repeated for a total of six credits).

CONSTRUCTION ENGINEERING TECHNOLOGY 2990:

125 STATICS

- 3 credits Prerequisites: 2820:161 and 2030:153. Forces, resultants and couples. Equilibrium of force systems. Trusses, frames, first and second moment of areas, friction.
- 231 BUILDING CONSTRUCTION 2 credits Materials and types of construction used in heavy construction. Encompasses buildings constructed with heavy timber, steel, concrete or a combination of these materials.

234 ELEMENTS OF STRUCTURES

Prerequisite: 241. Principles of stress and structural analysis of members in steel, timber and concrete

MATERIALS TESTING I 237

Laboratory testing of soils with emphasis on physical properties of soil. Laboratory and field procedures used for quality control. Testing of concrete mixes.

238 MATERIALS TESTING I

2 credits Prerequisite: 237; corequisite: 241. Mix design of concrete. Laboratory testing of ferrous and nonferrous metals, woods and concrete. Experiments demonstrate physical properties as related to design.

241 STRENGTH OF MATERIALS

Prerequisite: 125. Stress, strain and stress-strain relationships. Tension, compression, torsion, beams. Shear and moment diagrams.

COST ANALYSIS AND ESTIMATING 245

Prerequisite: 231. Quantity surveys in construction. Elements of cost in construction, determination of unit costs, analysis of cost records.

STRUCTURAL DRAFTING

Prerequisite: 2940:121, 180. Duties of structural draftsman in preparation of detailed working draw ings for steel and concrete. Emphasis on portrayal, dimensions and notes on a working drawing.

310 RESIDENTIAL BUILDING CONSTRUCTION 3 credits Introduction to building design, wood framing and mechanical systems as commonly found in residential housing.

CONSTRUCTION QUALITY CONTROL

2 credits Prerequisites: 237, 238 or permission. Overview of quality control concepts and techniques as related to the construction industry including the necessary statistical tools; exposes students to civil, mechanical and electrical inspection requirements

352 FIELD MANAGEMENT AND SCHEDULING 2 credits Prerequisites: 2980:222, 245 or permission. Planning, scheduling and controlling of field work within time and cost constraints 354 FOUNDATION CONSTRUCTION METHODS 3 credits Prerequisite: 234. Soil mechanics and soils exploration as related to construction. Foundation construction methods and practice in the interest of safety and suitable economy. 3 credits 355 COMPUTER APPLICATIONS IN CONSTRUCTION Prerequisite: admission into the BCT program or permission of instructor. Focuses on realtime and batch programming of construction-oriented problems. Includes graphics, simulation, basic programming, flowcharting, hardware, software and management information applications. 356 SAFETY IN CONSTRUCTION 2 credits The purpose of this course is to explain what creates hazards and why, and to suggest where to anticipate trouble in each phase of the work as it progresses. 357 CONSTRUCTION ADMINISTRATION 2 credits Prerequisite: junior standing. Construction specification, offica organization, preparation of construction documents, bidding, bonds. Construction management and supervision. Agreement and contracts. 358 ADVANCED ESTIMATING 3 credits Prerequisite: 355 or permission of the instructor. This course focuses on estimating and bidding for public and private construction. Includes heavy/highway, industrial and building construction with microcomputers to facilitate bid price. 359 CONSTRUCTION COST CONTROL 3 credits Prerequisite: 6200:201. Course develops a practical understanding of the latest managenial accounting principles and practicas as they apply to the construction business. 361 CONSTRUCTION FORMWORK 3 credits Prerequisite: 234 or permission. Introduction to design and construction of formwork and temporary wood structures. 410 RESIDENTIAL BUILDING DESIGN 3 credits Prerequisites: 310. Advanced building design, construction details and management of residential housing construction. 153 LEGAL ASPECTS OF CONSTRUCTION 2 credits Study of business of contracting and subcontracting and legal problems therein such as breach partial performance, payment, insolvency, subsurface. Review of AIA standard contracts and construction industry rules of arbitration. 462 MECHANICAL SERVICE SYSTEMS 3 credits Introduction to materials and equipment used in mechanical heating, ventilating, air conditioning, water and waste systems. 463 ELECTRICAL SERVICE SYSTEMS 3 credits Introduction to materials and equipment in electrical and acoustical systems of buildings Includes illumination, electrical sources, materials and distribution, acoustical problems and 465 HEAVY CONSTRUCTION METHODS 3 credits Prerequisite: 2980:232 or 4300:472. Management techniques in planning, estimating and directing heavy construction operations. 466 HYDRAULICS 3 credits Introduction to hydrology. Flow in closed conduits and open channels, distribution, systems, storage requirements and basic concepts of hydraulic structures. Basic concepts of seepage and working knowledge of pumps.

468 CONSTRUCTION MANAGEMENT 3 credits Prerequisites: senior-level standing, 352 and 357. Construction Management takes established construction practices, current technological advances and latest management methods and makes them into an efficient, smooth working system.

- 489 SPECIAL TOPICS IN CONSTRUCTION 1-3 credits Prerequisite: permission of instructor. (May be repeated for up to six credits.) Special lecture/laboratory courses offered once or only occasionally in areas where no formal courses exist.
- 490 WORKSHOP IN CONSTRUCTION 1-3 credits Prerequisites: permission of instructor. (May be repeated for up to six credits.) Group studies of special topics in construction. May not be used to meet undergraduate major requirements in construction. May be used for elective credit only.
- 498 INDEPENDENT STUDY IN CONSTRUCTION 1-3 credits Prerequisite: permission of instructor. (May be repeated for up to six credits.) Directed study in a special field of interest chosen by student in consultation with instructor.

Buchtel College of Arts and Sciences

COOPERATIVE EDUCATION 3000:

- 200 JOB SEARCH STRATEGIES FOR LIBERAL ARTS AND SCIENCE MAJORS 2 credits Students engage in comprehensive career planning and develop job search strategies. Course topics include navigating a search, creating resumes/cover letters, interviewing and portfolio development. No prerequisites required.
- 301 COOPERATIVE EDUCATION
 - (May be repeated) For cooperative education students only. Work experience in business, industry, or governmental agency. Comprehensive performance evaluation and written report required.

PAN-AFRICAN STUDIES 3002:

- 201 INTRODUCTION TO PAN-AFRICAN STUDIES 3 credits Prerequisites: 3300:112 or 2020:121. An interdisciplinary study from an Afrocentric perspective of African and African diaspora experiences. The course will focus on central issues related to the discipline.
- 301 THE CIVIL RIGHTS MOVEMENT IN AMERICA: 1945-1974 3 credits Social and political actions, events and environment which produces civil rights movement in America. Legal, political and organizational strategies; philosophical arguments; prominent civil rights activists.
- 401 GENERAL SEMINAR IN PAN-AFRICAN STUDIES 3 credits Prerequisite: 3400.260 or permission. Exploration and intensive examination of variety of issues related to role and minority group relations which normally stand outside the compass of any one subject matter area.
- 420 SPECIAL TOPICS IN PAN-AFRICAN STUDIES 1-3 credits (May be repeated for a maximum of three semester credits). Prerequisite: permission of instructor.
- INDEPENDENT STUDY 1-3 credits (May be repeated for a maximum of three semester credits). Prerequisites: 3002:201 and 3400:260 or 3400:261 and permission of director. Directed study in a special field of interest chosen by student in consultation with instructor.

INTERDISCIPLINARY PROGRAM

CONFLICT MANAGEMENT

3003:

- 230 INTRODUCTION TO CONFLICT MANAGEMENT/RESOLUTION
- Examination of the theoretical foundations of conflict and conflict management/resolution tactics to provide a sound and common intellectual framework for the systematic analysis and application of conflict methodologies.
- 300 SPECIAL TOPICS IN PEACE STUDIES 1-3 credits See Schedule of Classes for current subject. (May be repeated for a total of three credits.) Interdisciplinary topics related to peace studies.
- 301 VALUE CONCEPTS ON PEACE AND WAR 3 credits Interdisciplinary study of attitudes, concepts and realities regarding war and peace issues.
- 350 INDEPENDENT STUDY 1-3 credits (May be repeated for a total of three credits) Prerequisite: Approval of Director of Peace Studies. Detailed study on selected topics related to peace.
- 378 INTRODUCTION TO HUMAN RIGHTS CONCEPTS 3 credits Interdisciplinary and cross-cultural survey of basic concepts of human rights as recognized by international law. Limitations and future issues are raised.
- 382 THE VIETNAM WAR 3 credits An examination and evaluation of political, military, diplomatic, and economic impact of the Vietnam War.
- 390 WORKSHOP IN PEACE STUDIES 1-3 credits (May be repeated for a total of four credits) Group studies in peace and war-related subjects and issues.
- 430 INTEGRATIVE APPROACHES TO CONFLICT MANAGEMENT/RESOLUTION 3 credits Prerequisite: 230. Comparison and workshop applications of strategies and concepts of conflict management/resolution.
- 495 INTERNSHIP IN CONFLICT MANAGEMENT 3-6 credits (May be taken for a total of six hours.) Prerequisite: 230 or 430. Supervised individual placement in local community organization or governmental agency that deals with conflict management issues.

INTERDISCIPLINARY PROGRAM

INTERNATIONAL DEVELOPMENT 3004:

- 201 INTRODUCTION TO INTERNATIONAL DEVELOPMENT 3 credits Uses multiple perspectives: economic, geographical, anthropological, political etc. to study relationships between industrialized and developing countries, poverty, productivity, justice and other aspects of development
- 401 INTERNATIONAL DEVELOPMENT PROJECT
 1-3 credits

 Prerequisite: 21 credits towards International Development Certificate. Research project to be carried abroad. Students must arrange international experience through channels outside the Certificate program. Project report is capstone requirement of Certificate.

INTERDISCIPLINARY PROGRAM

3005:

- 300 CANADIAN STUDIES: AN INTERDISCIPLINARY APPROACH
 3 credits

 This course provides historical, political, geographical, sociological, and literary overview of Canada. Team-taught.
 3 credits
- 88 INDEPENDENT STUDY 1-3 credits Prerequisite: 300 and permission of director. Course of study chosen by student in consultation with instructor in specific field of study. Can be repeated up to six credits.

INTERDISCIPLINARY PROGRAM

INSTITUTE FOR LIFE-SPAN DEVELOPMENT AND GERONTOLOGY

3006:

450 INTERDISCIPLINARY SEMINAR IN LIFE-SPAN DEVELOPMENT AND GERONTOLOGY

(May be repeated for a total of two credits) Prerequisite: permission of instructor. Introduction to interdisciplinary study of gerontology including discussion of dimensions of aging, historical framework of aging in America, demographics, service systems, and current issues.

2 credits

- 485 SPECIAL TOPICS 1-3 credits Prerequisite: permission of instructor. Specialized topics and current issues in life-span development or gerontology. Covers content or issues not currently addressed in other academic courses.
- 486/686 RETIREMENT SPECIALIST 2 credits An investigation of issues related to the design and implementation of pre-retirement planning and examination of life-span planning education as employed by labor, business and education.
- 490 WORKSHOP 1-3 credits (May be repeated) Group studies of special topics in life-span development and gerontology. May not be used to meet certificate requirements. May be used for elective credit only.
- 495 PRACTICUM IN LIFE-SPAN DEVELOPMENT 1-3 credits AND GERONTOLOGY

(May be repeated) Prerequisite: permission. Supervised experience in research or community agency work.

INTERDISCIPLINARY PROGRAM

ENVIRONMENTAL STUDIES

3010:

3 credits

- 201 INTRODUCTION TO ENVIRONMENTAL STUDIES 3 credits An interdisciplinary approach to the study of our relationship with nature and dependence upon the environment, with emphasis on current environmental problems and solutions.
- 401 SEMINAR IN ENVIRONMENTAL STUDIES 2 credits Specific environmental topic or topics from interdisciplinary viewpoint each semester. The director of Environmental Studies coordinates course; resource persons are drawn from the University and surrounding community.
- 490/590 WORKSHOP IN ENVIRONMENTAL STUDIES 1-4 credits Prerequisite: varies with topic. Credit in graduate program must have prior approval of adviser. Skills, attitudes and fundamental concepts dealing with timely environmental problems and issues covered. Instruction under direction of University faculty.
- 495/595 FIELD/LAB STUDIES IN ENVIRONMENTAL SCIENCE 3 credits Prerequisites: permission. A Field/Laboratory inquiry into a specific interdisciplinary, environmental science topic. Students complete a research project where they collect, analyze and interpret real world data.

BIOLOGY

3100:

100 INTRODUCTION TO BOTANY

4 credits Identification and biology of common plants of this region. Recommended for teachers of nature study. Not available for credit toward a degree in biology. Laboratory.

101 INTRODUCTION TO ZOOLOGY 4 credits Identification and biology of common animals of this region. Recommended for teachers of nature study. Not available for credit toward a degree in biology. Laboratory.

103 NATURAL SCIENCE: BIOLOGY

- Designed for non-science majors. Laboratory and class instruction illustrate concepts of living organisms with emphasis on mankind's position in, and influence on, the environment.
- 104 INTRODUCTION TO ECOLOGY LABORATORY 1 credit Corequisite: 105. Short field trips and laboratory studies illustrating natural and modified characteristics of selected local ecosystems.

105 INTRODUCTION TO ECOLOGY

Basic principles governing structure and function of natural ecosystems. Various options for managing natural resources, human populations, biotic communities and industrial technologies at global level emphasized. Not available for credit toward a degree in biology.

108 INTRODUCTION TO BIOLOGICAL AGING

Prerequisite: 3100:103. Survey of normal anatomical and physical changes in aging and associate diseases. (For students in gerontological programs at Wayne College. Not for B.S. biology credit.)

111 PRINCIPLES OF BIOLOGY I

4 credits Molecular, cellular basis of life; energy transformations, metabolism; cell reproduction, genetics, development, immunology, evolution, and origin and diversity of life (through plants). Laboratory.

112 PRINCIPLES OF BIOLOGY

Prerequisite: 111. Animal diversity; nutrients, gas exchange, transport, homeostasis, control in plants and animals; behavior; ecology. (111-112 are an integrated course for biology majors.) Laboratory.

130 PRINCIPLES OF MICROBIOLOGY

3 credits Basic principles and terminology of microbiology; cultivation and control of microorganisms; relationships of microorganisms; medical microbiology. Laboratory. Not available for credit ward a degree in biology

190/191 HEALTH-CARE DELIVERY SYSTEMS

1 credit each Health-care principles and practices. Restricted to the student in NEOUCOM, six-year BS/MD program. Graded credit/noncredit. Not available toward credit as major in biological sciences. ield trips involved; minor transportation costs.

200 HUMAN ANATOMY AND PHYSIOLOGY I

Prerequisite: 3150:110,111,112,113 or 3150:151,152,153 Corequisite:201. Study of structure and function of the human body. Molecular, cellular function, histology, integumentary system, skeletal system, muscular system, nervous system, and the sense organs.

201 HUMAN ANATOMY & PHYSIOLOGY LABORATORY |

1 credit Corequisite: 200. Laboratory to accompany lecture. Devised to allow hands on experience using models, dissections of various animals, virtual dissection, and physiological exercises.

202 HUMAN ANATOMY & PHYSIOLOGY II

- Prerequisite: 200,201. Corequisite: 203. Study of structure and function of the human body. Endocrine system, cardiovascular system, lymphatics, respiratory system, unnary system, digestive system, and reproductive systems.
- 203 HUMAN ANATOMY & PHYSIOLOGY LABORATORY II 1 credit Prerequisite: 200,201. Corequisite: 202. Laboratory to accompany lecture. Devised to allow hands on experience using models, dissections of various animals, virtual dissection, and physiological exercises.
- 211 GENERAL GENETICS 3 credits
- Prerequisite: 112. Principles of heredity, principles of genetics

212 GENETICS LABORATORY

Prerequisite or corequisite: 211. Laboratory experiments in genetics with emphasis on scientific method; techniques in molecular biology.

217 GENERAL ECOLOGY

- 3 credits Prerequisite: 112. Study of interrelationships between organisms and environment.
- 265 INTRODUCTORY HUMAN PHYSIOLOGY 4 credits Study of physiological processes in human body, particularly at organ-systems level. Not open to preprofessional majors. Laboratory.

290/291 HEALTH-CARE DELIVERY SYSTEMS

1 credit each Health-care principles and practices. A continuation of 190,1 for a second year student in NEOUCOM six-year BS/MD program. Graded credit/noncredit. Not available toward credit as major in biological sciences. Field trips involved; minor transportation costs.

295 SPECIAL TOPICS: BIOLOGY

1 to 3 credits Prerequisite: permission. Special courses offered occasionally in areas where no formal course exists. Maximum of six credits of 3100:295/495 will apply toward major.

311 CELL AND MOLECULAR BIOLOGY

Prerequisites: 3100: 211, 3150:151, 152, 153, 154. Study of structure and function of cells, with emphasis on both classical and modern approaches to understanding organelles, energy balance, protein synthesis, and replication.

315 EVOLUTIONARY BIOLOGY DISCUSSION

Prerequisite: 211. Informal discussions of various aspects of organic evolution of general or special interest.

316 EVOLUTIONARY BIOLOGY 3 credits Prerequisite: 211, History of evolutionary thought: Darwinian and post-Darwinian concepts. mechanisms of evolution; molecular evolution; evolutionary history of plants and animals.

- 331 MICROBIOLOGY 4 credits Prerequisites: 112, 211 and prerequisite or corequisite 3150:263. Survey of monera with emphasis on the bacteria: their morphology, cultivation and chemical characteristics. Relationships of microorganisms to humans and their environment. Laboratory,
- 342 FLORA AND TAXONOMY 3 credits Prerequisite: 112. Origins of Ohio flora, ecological and evolutionary relationships. Survey of local flowering plant families, collection and identification of flora. Laboratory and field trips

365 HISTOLOGY I

3 credits Prerequisite: 311. Cellular structure of organs in relation to their functional activity, life history, comparative development. Laboratory.

366 HISTOLOGY II

Prerequisite: 365. Microscopic study of animal tissue preparations and histochemical stains; emphasis on functional differences. Laboratory.

392 BIOLOGY OF AGING

Prerequisite: 112 or 265 or equivalent. Introduction to anatomical and physiological changes occurring in organ systems of humans during aging process; cellular basis for these changes; biological theories of aging.

400/500 FOOD PLANTS

4 credits

2 credits

3 credits

4 credits

3 credits

3 credits

1 credit

4 credits

1 credit

Prerequisite: 112 or permission of instructor. A survey of the plants used for human food, including their history, structure, uses.

406/506 PRINCIPLES OF SYSTEMATICS

Prerequisites: 112,211,316. The science of identifying, naming, and classifying the diversity of life. Topics include: nomenclature, types, techniques of data collection, and methods of phylogenetic reconstruction.

412/512 ADVANCED ECOLOGY

3 credits Prerequisite: 217, Advanced study of the ecology of individuals, populations, communities, and conservation/applied ecology. Active participation/discussion of primary literature in ecology is required

418/518 FIELD ECOLOGY

4 credits Prerequisite: 217 (statistics strongly recommended). Introduction to sampling methods, design of experiments and observations, and computer analysis; some local natural history.

421/521 TROPICAL FIELD BIOLOGY

4 credits Prerequisites: 111/112 or equivalent. Ecology of coral reefs, tide pools, mangroves, intertidal zones, terrestrial flora and fauna, island biogeography. Taught at a field station in the tropics. Field trips involved; transportation costs.

423/523 POPULATION BIOLOGY

Prerequisites:211, 217. Discussions of animal and plant ecology and evolutionary biology from a species and population level perspective. Includes topics in population ecology and population genetics.

426/526 WETLAND ECOLOGY

Prerequisite: 217. Wetland ecology; principles and conservation. Field studies will be conducted at Bath Nature Preserve. Laboratory.

427/527 AQUATIC ECOLOGY 4 credits

requisite: 217 or permission. Explores life in freshwater and manne systems, emphasizing the Great Lakes ecosystem. Includes field trips. Laboratory.

428/528 BIOLOGY OF BEHAVIOR 2 credits Prerequisites: 211, 217 and 316. Biological basis of behavior: ethological theory; function, causation, evolution and adaptiveness of behavior. May be taken without 429/529.

429/529 BIOLOGY OF BEHAVIOR LABORATORY 2 credits

Prerequisite or corequisite: 428/528 and permission of instructor. Individualized, directed study to provide the student with firsthand experience in observing, describing and interpreting animal behavior.

430/530 COMMUNITY/ECOSYSTEM ECOLOGY 4 credits

Prerequisite: 217. History of the ecosystem concept; components, processes and dynamics of communities and ecosystems; analysis and design of ecosystem experiments. Laboratory. 433/533 PATHOGENIC BACTERIOLOGY 4 credits

Prerequisite: 331. Study of major groups of bacteria which produce infections in humans. Biochemical properties of microorganisms which engender virulence and nature of host resistance. Laboratory.

435/535 VIROLOGY 4 credits

Prerequisite: 331. Physical, chemical and biological properties of viruses including mechanisms of infection, genetics and turnor formation; methods of cultivation and identification. Laboratory.

437/537 IMMUNOLOGY 4 credits Prerequisite: 211. Corequisite: 331. Recommended: 311. Nature of antigens, antibody response, and antigen-antibody reactions. Site and mechansim of antibody formations, hypersensitivity, immunologic tolerance and immune diseases considered. Laboratory.

439/539 ADVANCED IMMUNOLOGY 3 credits Prerequisite: 437/537. Immunology is studied from a historical and current perspective. Topics

include T cells, B cells, antigen presentation, HIV, and transplantation. 440/540 MYCOLOGY

4 credits Prerequisite: 112. Structure, life history, classification of representative fungi with emphasis on the importance of fungi to humans. Laboratory.

441/541 PLANT DEVELOPMENT 4 credits Prerequisites: 112 and one year of organic chemistry. Embryology and morphogenesis of plants in relation to physical, chemical, genetic and spatial factors. Laboratory.

- 442/542 PLANT ANATOMY 3 credits Prerequisite: 112. Structure and development of cells, tissues, organs and organ systems of
 - seed plants. Laboratory 4 credits

443/543 PHYCOLOGY

Prerequisite: 112. Examination of the major groups of algae with emphasis on life histories and their relationship to algal form and structure. Laboratory.

- 3 credits

3 credits

3 credits

2 credits

3 credits

4 credits

3 credits

444/544 FIELD MARINE PHYCOLOGY

Prerequisite: 112. Collection and identification of tropical marine algae on San Salvador Island, The Bahamas. Discussion of characteristics and ecology of major groups of Caribbean algae. Laboratory

445/545 PLANT MORPHOLOGY

Prerequisite: 112. Structure, reproduction, life cycles, ecology, evolution, economic significance of land plants-bryophytes, club-mosses, whisk fems, horsetails, ferns, seed plants. Laboratory. Field trips involved: minor transportation costs.

448/548 ECONOMIC BOTANY

Prerequisite: 111/112 or instructor's permission. A survey of economically important plants and plant products, excluding food plants. Includes wood and fiber, dyes, drugs, resins, latex and other extractives.

451/551 GENERAL ENTOMOLOGY

4 credits Prerequisites: 112, 217. Structure, physiology, life cycles, economic importance and characteristics of orders and major families of insects. Laboratories parallel lectures.

453/553 INVERTEBRATE ZOOLOGY

4 credits Prerequisites: 112, 217. Invertebrate groups, their classification, functional morphology, adaptive radiation and life history. A phylogenetic approach is used. Laboratories parallel lectures

454/554 PARASITOLOGY

Prerequisites: 112. Principles of parasitism; host parasite interactions; important human and veterinary parasitic diseases; and control measures. Laboratories parallel lectures.

455/555 ICHTHYOLOGY

4 credits Prerequisites: 217. Study of fishes; incorporates aspects of evolution, anatomy, physiology, natural history, and commercial exploitation of fishes. Laboratory incorporates field-based exercises and fish taxonomy.

456/556 ORNETHOLOGY

Prerequisite: 112. Introduction to biology of birds: classification, anatomy, physiology, behavior, ecology, evolution, natural history and field identification. Laboratory and field trips.

457/557 HERPETOLOGY

4 credits Prerequisite: 112. Survey of the diversity, ecology and evolution of amphibians and reptiles. Special emphasis is given to Ohio species. Laboratory.

458/558 VERTEBRATE ZOOLOGY

Prerequisite: 316 or permission. Biology of vertebrates, except birds evolution, ecology, behavior, systematics and anatomy. Laboratory with field trips.

461,2/561,2 HUMAN PHYSIOLOGY

Prerequisite: senior or graduate standing. Detailed study of function of the human body with special emphasis on neuromuscular, cardiovascular, respiratory, renal and endocrine physiology. Laboratory

464/564 COMPARATIVE ANIMAL PHYSIOLOGY

Prerequisites: 112. Study of respiration, circulation, digestion, metabolism, osmoregulation and excretion in a variety of invertebrate and vertebrate animals. Adaptation to the environment is emphasized. Laboratory.

465/565 ADVANCED CARDIOVASCULAR PHYSIOLOGY

Prerequisite: 462 or 562 or permission. Study of biological mechanisms involved in heart attack, strokes, fluid balance, hypertension and heart disease. Controversial issues in each area will be examined and current research presented.

466/566 VERTEBRATE EMBROLOGY

Prerequisite: 112. Designed to introduce the process of vertebrate development. Lecture focuses on human development. Lecture and laboratory work include descriptive and experimental embryology

467 COMPARATIVE VERTEBRATE MORPHOLOGY

Prerequisite: 112. An introduction to the comparative morphology of major vertebrates. The laboratories consist of dissections of representative vertebrates.

468/568 THE PHYSIOLOGY OF REPRODUCTION

Prerequisite: 462/562 or permission. Study of the physiological mechanisms of reproduction throughout the animal kingdom with special emphasis upon mammalian endocrinological control. Controversial issues in the field will be examined and current research presented.

469/569 RESPIRATORY PHYSIOLOGY

Prerequisites: 462/562 or 464/564 or permission. Study of mechanisms determining gas exchange including mechanics, ventilation, blood flow, diffusion, and control systems. Emphasis is given to normal human lung function. (Clinical aspects are not considered in detail.)

470/570 LAB ANIMAL REGULATIONS

Required of anyone working with animals, and covers government regulations, care of animals and a lab to teach basic animal handling and measurement techniques.

471/571 PHYSIOLOGICAL GENETICS

4 credits Prerequisite: 211 or equivalent; 462/562 or equivalent; or permission of instructor. The integra-tive study of how genetics and physiology influence complex systems from molecular to behav-ioral in plants and animals. Laboratory.

472/572 BIOLOGICAL MECHANISMS OF STRESS 3 credits Prerequisite: 462/562 or equivalent or permission of instructor. Study of mechanisms from molecular to behavioral of how stress influences body systems and signals. The latest research and experimental issues are discussed.

480/580 MOLECULAR BIOLOGY

Prerequisite: 211 and 311. Fundamentals of molecular biology, including recombinant DNA technology, applications in biotechnology, medicine, and genetic engineering. Mechanisms of gene regulation.

461/581 ADVANCED GENETICS

Prerequisite: 211. Nature of the gene: genetic codes; hereditary determinants; mutagenesis and genes in population. Lecture and seminar

484/584 PHARMACOLOGY

techniques, Laboratory

3 credits

4 credits

2 credits

4 credits

4 credits

4 credits

3 credits

4 credits

4 credits

3 credits

3 credits

1 credit

3 credits

3 credits

4 credits each

Prerequisite: 311 or 209 or permission of instructor. Interactions of drugs and living systems with emphasis on absorption, mechanisms of action, biotransformation and elimination, Clinical aspects not considered in detail.

485/585 CELL PHYSIOLOGY 4 credits Prerequisite: 311. Explores molecular and biochemical aspects of energy metabolism, inter and intracellular signaling, growth and death of cells. Emphasizes up-to-date scientific literature and

494/594 WORKSHOP IN BIOLOGY 1-3 credits (May be repeated) Prerequisite: permission of instructor. Group studies of special topics in biology. May not be used to meet undergraduate or graduate major requirements in biology. May be sed for elective credit only.

495 SPECIAL TOPICS: BIOLOGY 1-3 credits Prerequisite: permission. Special courses offered occasionally in areas where no formal course exists. Maximum of six credits of 3100:295/495 will apply toward major.

- 497,8/597,8 BIOLOGICAL PROBLEMS 1-2 credits each Prerequisite: permission. Honors-level work, usually consisting of laboratory investigations. A maximum of 4 credits may apply toward the major degree requirements.
- 499 SENIOR HONORS PROGRAM IN BIOLOGY 1-3 credits (May be repeated for a total of five credits) Prerequisites: senior standing in Honors Program and approval of honors preceptor. Open only to biology and natural sciences divisional majors in Honors Program. Independent study leading to completion of approved senior honors.

MEDICAL TECHNOLOGY

3120:

- 401 SPECIAL TOPICS LABORATORY: 1-4 credits MANAGEMENT, EDUCATION AND SAFETY
 - Seminars, lectures, workshops in medical technology not included in formal clinical courses. Minimum one credit required for graduation.
- 410 CLINICAL ANALYSIS OF URINE AND OTHER BODY FLUIDS I 1 credit Physiology of renal system; theory of renal functions in health and disease states. Theory of other fluid systems in diagnosis of disease.
- 411 CLINICAL ANALYSIS OF URINE AND OTHER BODY FLUIDS II PRACTICUM 1 credit Renal function tests to include chemical and microscopic examination of urine. Methods of detection of chemical and cellular elements of other body fluids.
- 420 CLINICAL CHEMISTRY AND BIOCHEMISTRY I 4 credits Concepts of clinical biochemistry; identification and quantification of specific chemical substances in body fluids in normal and disease states; principles of instrumentation and quality control.
- 421 CLINICAL CHEMISTRY AND BIOCHEMISTRY II PRACTICUM 4 credits Clinical application by various analytical techniques; clinical correlation of results with disease states
- 430 CLINICAL HEMATOLOGY I 2 credits Theory of blood cell formation; identification of blood and bone marrow cells; differentiation of erythrocytes, leukocytes, morphology.
- 431 CUNICAL HEMATOLOGY II PRACTICUM 2 credits Clinical application and practice of blood cell mounting procedures using automated and manual techniques
- 432 CLINICAL COAGULATION 1 credit Theory of coagulation mechanisms and their relationship to disease states. Emphasis on identification of coagulation deficiencies and abnormalities.
- 440 CLINICAL IMMUNOHEMATOLOGY I 2 credits Theory of principles of immunology applied to blood grouping, cross matching; blood compo-nents; transfusion; blood collection, processing and preservation.
- 441 CLINICAL IMMUNOHEMATOLOGY II PRACTICUM 2 credits Clinical application of theory; cross matching; blood donors; blood bank management.
- 450 CLINICAL IMMUNOLOGY I 1 credit Antigens and antibodies and their interaction in disease states.
- 451 CLINICAL IMMUNOLOGY II PRACTICUM 1 credit Qualitative and quantitative serological laboratory procedures in immunology.
- 460 CLINICAL MICROBIOLOGY I 4 credits Theory of diagnosis of medical microbiology with emphasis on pathogenic bacteria and their relationship to disease.
- 461 CLINICAL MICROBIOLOGY II PRACTICUM 4 credits Isolation and identification of pathogenic bacteria, media making, sensitivity and antimicrobial agents, principles of sterilization and asepsis.
- 462 CLINICAL MYCOLOGY 1 credit Study of pathogenic fungi, basic methods of cultivation and identification, treatment and safety precautions
- 463 CLINICAL PARASITOLOGY 1 credit Study of parasites common to humans, life cycles, and relationship to humans, procedure for
- handling and examining, identification by morphological characteristics.

CYTOTECHNOLOGY

3130:

1 credit 401 INTRODUCTION TO CYTOLOGY A brief course in which by means of lecture and demonstration the student becomes familia with the cytotechnologist's role and with cytology laboratory. Areas covered include historical background of clinical cytology, microscopy and basic histology.

410 CYTOPREPARATION 2 credits Combined lecture and laboratory of different cytologic techniques, stain preparation, staining procedures, mounting and cover slipping of specimens. Also included are pertinent laboratory neasurements, record keeping and safety measures for cytopreparation laboratory

411 GYNECOLOGIC CYTOPATHOLOGY 5 credits Anatomy, histology and cellular morphology of female reproductive system. Study of disease, processes and endocrinopathies, inflammation and benign lesions. Stressed are premalignant lesions of cervix and endometrium, as well as malignant neoplasms and their cytologic characteristics. A study of extrauterine and metastatic tumors is included.

412 GENITO-URINARY CYTOPATHOLOGY

Study of anatomy, histology, pertinent physiology and cellular morphology of kidneys, ureters, bladder and lower urinary tract. Emphasis on recognition of cancer cells and various benign pathologic conditions in the urinary tract by microscopic studies of urine sediment.

3 credits

3 credits

4 credits

3 credits

2 credits

3 credits

5 credits

3 credits

413 RESPIRATORY CYTOPATHOLOGY

Study of disease processes as related to cytology of respiratory tract. Covers general anatomy, normal histology and cytology, inflammatory and mycotic diseases, benign proliferative disorders and malignant neoplasms with emphasis on their associated cell morphology.

414 BODY FLUIDS CYTOPATHOLOGY

Anatomy, histology and clinical aspects of benign and malignant diseases involving body cavities, central nervous system and synovial cavities are presented. Emphasis is placed in cellular morphology of primary and metastic tumors and in different cytodiagnosis.

415 CYTOPATHOLOGY OF THE ALIMENTARY TRACT

Anatomy, histology and pertinent physiology of the oral cavity, esophagus, stomach, small and large intestines, rectum and anal canal. The biologic behavior, clinical presentation and cellular morphology of various benign epithelial lesions and malignant tumors emphasized

416 BREAST SECRETION AND NEEDLE ASPIRATION SMEARS

The study of anatomy and histology of body organs subject to needle aspiration biopsy with emphasis on cellular morphology of both benign and malignant tumors.

417 CYTOGENETICS

1 credit Basic genetic principles are taught to lay foundation for study of chromosomal aberrations and their pathological manifestations. Include techniques of sex chromatin determination, culturing and harvesting of blood cells, preparation of metaphase plate and preparation of karyotypes.

418 CYTOLOGY SEMINARS AND RESEARCH

Collections of American Society of Cytology Seminars are presented. Current cytology cases from within department are also utilized. Based on projected slides and pertinent clinical history, a student formulates opinions on each case. Each case presented is discussed in depth by student with faculty moderator. A term paper on an independently selected topic in cytology is to be submitted and presented to the class and faculty.

420 CYTOLOGY PRACTICUM

Involves five hours of daily prescreening of routine gynecologic and nongynecologic specimens. Abnormal cases are reviewed with a proctor who is a registered cytotechnologist or pathologist. Correlation of clinical data, follow up of patients and proper reporting is emphasized. The goal is to be able to screen accurately at least 40 cases of gynecologic specimens per day.

CHEMISTRY

3150:

- CHEMISTRY AND SOCIETY
- Qualitative introduction to chemistry using current world problems and commercial products, such as the ozone layer, nuclear fission, polymers and drugs, to introduce chemical principles.
- 4 credits 101 CHEMISTRY FOR EVERYONE Integrated, hands-on, laboratory instruction in the fundamental concepts of chemistry for general education and middle-level licensure for pre-service and in-service teachers.
- 110 INTRODUCTION TO GENERAL 3 credits ORGANIC AND BIOCHEMISTRY I (LECTURE) Sequential. Introduction to principles of chemistry, fundamentals of inorganic, organic and biochemistry. Structure and chemistry of carbohydrates, lipids, proteins; biochemistry of enzymes, metabolism, radiation.
- 111 INTRODUCTION TO GENERAL 1 credit ORGANIC AND BIOCHEMISTRY I (LABORATORY)
 - Prerequisite/Corequisite: 3150:110. Sequential. Laboratory course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry.
- 112 INTRODUCTION TO GENERAL 3 credits **ORGANIC AND BIOCHEMISTRY II (LECTURE)** Prerequisite: 110, Sequential, Introduction to principles of chemistry, fundamentals of inorganic,

organic and biochemistry. Structure and chemistry of carbohydrates, lipids, proteins; biochemistry of enzymes, metabolism, radiation.

- 113 INTRODUCTION TO GENERAL 1 credit ORGANIC AND BIOCHEMISTRY II (LABORATORY) Prerequisite/Corequisite; 3150:112. Sequential. Laboratory course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry.
- 151 PRINCIPLES OF CHEMISTRY I 3 credits Introduction to basic facts and principles of chemistry including atomic and molecular structure, states of matter and thermodynamics. For chemistry majors, pre-medical students and most other science majors. Discussion (day sections).
- 152 PRINCIPLES OF CHEMISTRY LABORATORY 1 credit Pre/Corequisite: 151, Laboratory course applying principles of thermodynamics, chemical analysis and laboratory practice
- 3 credits 153 PRINCIPLES OF CHEMISTRY II Prerequisite: 151, 152. Continuation of 151, 152, including aqueous solution theory, chemical kinetics, equilibrium, electrochemistry and nuclear chemistry. For chemistry majors, premedical students and most other science majors. Discussion (day sections).
- 154 QUALITATIVE ANALYSIS 2 credits Corequisite: 153. Laboratory course applying principles of chemical equilibrium to inorganic qualitative analysis.
- 263.4 ORGANIC CHEMISTRY LECTURE L II 3 credits each Sequential. Prerequisite: 154 or permission. Structure and reactions of organic compounds, mechanism of reactions
- 265.6 ORGANIC CHEMISTRY LABORATORY I. II 2 credits each Sequential. Laboratory experiments to develop techniques in organic chemistry and illustrate principles. Discussion.
- 301 BASIC BIOCHEMISTRY 3 credits Prerequisite: 264. A one-semester, basic course in biochemistry covering structure/reactivity relationships of biological molecules and the metabolism of carbohydrates, lipids, amino acids and nucleic acids
- 313,4 PHYSICAL CHEMISTRY LECTURE I, II 3 credits each Sequential. Prerequisites: 264, 3450:335, 3650:292 or permission of instructor. Gases, thermo dynamics, thermochemistry, solutions, dilute solutions, chemical equilibrium, phase rule, chemical kinetics, electrochemistry, electrolytic equilibria, atomic and molecular structure.
- 2 credits 380 ADVANCED CHEMISTRY LABORATORY I Corequisite: 313 and 423 or permission. Integrated laboratory experience covering the areas of quantitative analysis, physical chemistry, instrumental techniques, and inorganic chemistry.
- 381 ADVANCED CHEMISTRY LABORATORY II 2 credits Prerequisite 380; corequisite: 314 and 424 or permission. Integrated laboratory experience covering the areas of quantitative analysis, physical chemistry, instrumental techniques and inorganic chemistry
- 401/501 BIOCHEMISTRY LECTURE I 3 credits Prerequisite: 264. Biochemistry of amino acids, carbohydrates, lipids, and nucleic acids: structure/function relations. Enzymes as catalysts: kinetics and regulation. Cofactors.
- 402/502 BIOCHEMISTRY LECTURE II 3 credits Prerequisite: 401/501. Overview of metabolism; thermodynamics; carbohydrate, fatty acid, amino acid, and nucleoside anabolism and catabolism; hormonal control of metabolism. Photosynthesis
- 3 credits 423 ANALYTICAL CHEMISTRY I Prerequisite: 264 or permission. Theoretical principles of quantitative and instrumental analysis.
- 424 ANALYTICAL CHEMISTRY II 3 credits Prerequisite 313 and 423 or permission. Instrumental analysis with emphasis on newer analytical tools and methods
- 463 ADVANCED ORGANIC CHEMISTRY 3 credits Prerequisites: 264, or 314 or permission. Introduction to study of mechanisms of organic reactions
- 3 credits 472/572 ADVANCED INORGANIC CHEMISTRY Prerequisite: 314. Concepts of atomic structure integrated in systematic classification of elements. Penodic table. Chemistry of the representative elements. Transition elements including coordination compounds, organometallics and metal carbonyls.
- 480 ADVANCED CHEMISTRY LABORATORY III 2 credits Prerequisite 381; corequisite 472 or permission. Integrated laboratory experience covering the areas of quantitative analysis, physical chemistry, instrumental techniques, and inorganic chemistry.
- ADVANCED CHEMISTRY LABORATORY IV 2 credits Prerequisite 480 and 472 or permission. Integrated laboratory experience covering the areas of quantitative analysis, physical chemistry, instrumental techniques, and inorganic chemistry.
- 490/590 WORKSHOP IN CHEMISTRY 1-3 credits (May be repeated) Group studies of special topics in chemistry. May not be used to meet undergraduate or graduate major requirements in chemistry. 497 HONORS PROJECT IN CHEMISTRY 2 credits
- (May be repeated for a total of eight credits) Prerequisites: junior or senior standing in Honors Program and permission of department honors preceptor. Independent research leading to completion of honors thesis under guidance of honors project adviser. 498 SPECIAL TOPICS: CHEMISTRY 1-3 credits

499 RESEARCH PROBLEMS 1-2 credits

(May be repeated for a total of eight credits) Prerequisite; permission. Assignment of special problems to student, designed as an introduction to research problems.

LASSICS

3200:	
190 THE MAKING OF ENGLISH WORDS FROM 3 credits LATIN AND GREEK ELEMENTS The influence of Latin and Greek on English vocabulary with some attention to the use of these languages in the scientific and legal fields. No foreign language is necessary.	
220 INTRODUCTION TO THE ANCIENT WORLD 3 credits Prerequisite: 3400:210. Introduction to the civilizations of the Near East, Greece, and Rome, their cultural influences upon each other and their legacy to Europe.	
230 SPORTS AND SOCIETY IN ANCIENT GREECE AND ROME 3 credits Greek and Roman sports, games and festivals, from the Olympics to gladiatorial games as social phenomena; multimedia survey of the archaeology of ancient sport.	
289 MYTHOLOGY OF ANCIENT GREECE 3 credits Prerequisite: 3400:210. Myth, legend and folktale in ancient Greece, with some attention to reli- gion (Olympian deities, Orphism, etc.) and the transmission of Greek myth to Rome and the West. No foreign language necessary.	
361 THE LITERATURE OF GREECE 3 credits Prerequisite: 3400:210. Major writers of ancient Greece and their influence on later European lit- erature. No foreign language necessary. Required of majors.	
362 THE LITERATURE OF ROME 3 credits Major writers of ancient Rome and their influence on later European literature. No foreign lan- guage necessary. Required of majors.	
401,2/501,2 EGYPTOLOGY I AND II 3 credits each The history and antiquities of ancient Egypt.	
404,5/504,5 ASSYRIOLOGY 3 credits each (May be repeated for credit with another cuneiform language) Prerequisite: permission of instructor. The Akkadian language.	
407,8/507,8 ANCIENT NEAR EASTERN ARCHEOLOGY 3 credits (May be repeated for credit with change of subject) Prerequisite: permission of instructor. Palestine, Mesopotamia, Asia Minor, adjacent lands; Old Testament in light of material evidence.	
450/550 SELECTED TOPICS IN ANCIENT CULTURES 3 credits (May be repeated with change of subject) Varied offerings in literature, art and archaeology and religion. No foreign language necessary.	
480/580 READING AND RESEARCH IN CLASSICAL STUDIES 1-3 credits Prerequisite: permission of instructor. Directed reading and research for individual and small group study in any recognized area of classical studies.	
499 HONORS PROJECT IN CLASSICS 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission. Independent study leading to completion of a senior honors thesis under the super- vision of a member of the Deartment of Classics.	

490/590 WORKSHOP IN CLASSICS 1-3 credits (May be repeated with change in topic.) Group studies of special topics in Classics. Cannot be used to fulfill undergraduate major requirements in Classics. For elective credit only.

GREEK

3210:

121,2 BEGINNING GREEK I AND II Sequential. Standard Attic Greek of classical times.	4 credits each
223,4 INTERMEDIATE GREEK	3 credits each

Prerequisites: 121, 122. A survey of readings of the less difficult authors such as Homer, certain dialogues of Plato, Herodotus, Xenophon, New Testament or the like.

303,4 ADVANCED GREEK 3 credits each (May be repeated with a change of subject) Tragedy, comedy, philosophy, history, lyric poetry, prose composition or epigraphy.

497.8 GREEK READING AND RESEARCH 3 credits each (May be repeated for credit with change of subject) Prerequisite: permission of instructor. Homer, Sophocles, Plato or the like.

LATIN

3220:

121,2 BEGINNING LATIN I AND II 4 credits each Sequential, Reading, writing and translation; oral and written drill; analysis of grammatical structure and English vocabulary building.

223.4 INTERMEDIATE LATIN

3 credits each Prerequisites: 121, 122. A survey of readings of the less difficult authors such as Pliny, Caesar, Plautus, Cicero's Letters or equivalent material.

303.4 ADVANCED LATIN

3 credits each (May be repeated for credit with change of subject) Prerequisites: 223, 224 or equivalent. Satirists, dramatists, philosophical, religious writers, lyric and elegiac poets, medieval writers.

497,8/597,8 LATIN READING AND RESEARCH

3 credits each (May be repeated for credit with change of subject) Prerequisite: permission of instructor. Generally Latin epigraphy, prose composition or philology; numismatics or certain other archaeological topics may be offered.

ANTHROPOLOGY

3230:

150 CULTURAL ANTHROPOLOGY

4 credits Introduction to study of culture; cross-cultural view of human adaptation through technology, social organization and ideology. Lecture.

- 151 HUMAN EVOLUTION 4 credits Study of biological evolution of Homo Sapiens, including primate comparisons and cultural development. One-hour laboratory using interactive computer programs, casts and Anthropology's
- cultural collection 251 HUMAN DIVERSITY 3 credits A study of the critical elements of world diversity, both cultural and biological. Cross-cultural
- comparisons of family, religion and politics in contemporary world. Multimedia and lecture

355 INDIANS OF SOUTH AMERICA 3 credits Prerequisite: 150 or 3850:100 or permission. Survey of aboriginal peoples of South America, with emphasis on culture areas and continuity of culture patterns. Lecture.

357 MAGIC, MYTH AND RELIGION 3 credits Prerequisite: 150 or 3850:100. Analysis and discussion of the data concerning the origins, roles and functions of magic and religion in a broad range of human societies, with emphasis on the non-Western, pre-industrial societies. Examination of belief and ritual systems of such societies.

358 INDIANS OF NORTH AMERICA 3 credits Prerequisite: 150 or permission. Ethnographic survey of native cultures of North America, with emphasis on variations in ecological adaptations, social organization and modern American Indians in anthropological perspective. Lecture.

359 ANTHROPOLOGY IN THE 21ST CENTURY 3 credits

Prerequisites: 150, 151 or permission of instructor. A seminar on the role, function and current theories in anthropology and the relevance of the discipline in the new century. Includes research methodologies.

370 CULTURES OF THE WORLD 3 credits Prerequisite: 150 or 3850:100. An examination of cultural change and diversity in the twentieth century; includes the ways in which cultures differ and major processes which produce those differences

397 ANTHROPOLOGICAL RESEARCH 1-3 credits (May be repeated) Prerequisite: permission. Individual study of problem areas of specific interest

to an individual student under guidance of a faculty member. 455/555 CULTURE AND PERSONALITY 3 credits

Prerequisite: 150 or permission. Examination of functional and causal relationships between culture and individual cognition and behavior. Lecture.

457/557 MEDICAL ANTHROPOLOGY 3 credits Prerequisite: 150 or permission of instructor. Analyzes various aspects of Western and non-Western medical systems from an anthropological perspective. Compares traditional medical systems around the world.

480/560 QUALITATIVE METHODS: BASIS OF ANTHROPOLOGICAL RESEARCH 3 credits Prerequisite: Junior standing. Provides hands-on experience in qualitative methods, including key informant interviewing, focus groups, and other methods. Includes the use of computer based programs for rapid appraisal strategies.

463/563 SOCIAL ANTHROPOLOGY

3 credits Prerequisite: 150 or permission. Comparative structural analysis of non-Western systems of kinship and social organization in terms of status, role, reciprocal expectation, nomenclature, nuclear and extended households and other kinship groupings. Lecture.

472/572 SPECIAL TOPICS: ANTHROPOLOGY

3 credits (May be repeated) Prerequisites: 150 and permission. Designed to meet needs of student with interests in selected topics in anthropology. Offered irregularly when resources and opportuni-ties permit. May include archaeological field school, laboratory research or advanced course work not presently offered by department on regular basis.

494/594 WORKSHOP IN ANTHROPOLOGY

1-3 credits (May be repeated) Group studies of special topics in anthropology. May not be used to meet departmental undergraduate or graduate major requirements. May be used for elective credit only.

ARCHAEOLOGY

3240:

250 INTRODUCTION TO ARCHAEOLOGY

Prerequisite: 3230:150. Course covers brief history of archaeology as a discipline, describes methodology and presents a short sketch of worldwide prehistory.

3 credits

313 ARCHAEOLOGY OF GREECE 3 credits The ruins and monuments of Greece; history reconstructed by examination of the material remains. No foreign language necessary. Required of majors.

314 ARCHAEOLOGY OF ROME 3 credits The ruins and monuments of Rome; history reconstructed by examination of the material remains. No foreign language necessary. Required of majors.

356 ARCHAEOLOGY OF THE AMERICAS 3 credits Prerequisite: 3230:150 or 3850:100 or permission. Survey of prehistoric cultures of North, Middle and South America; beginning with peopling of Western Hemisphere and ending with European contact. Lecture.

472 SPECIAL TOPICS IN ARCHAEOLOGY 3 credits Prerequisite: 250 or permission. Designed to meet needs of student with interests in selected topics in archaeology. Offered irregularly when resources and opportunities permit. May include archaeological field school, laboratory research or advanced course work not presently offered by department on regular basis.

ECONOMICS

3250:

- **100 INTRODUCTION TO ECONOMICS**
- 3 credits May not be substituted for 200, 201, 244. Economics primarily concerned in a broad social science context. Adequate amount of basic theory introduced. Cannot be used to satisfy major or minor requirements in economics.
- 200 PRINCIPLES OF MICROECONOMICS 3 credits Analysis of behavior of the firm and household, and their impact on resource allocation, output and market price. No credit if 244 already taken.

201 PRINCIPLES OF MACROECONOMICS 3 credits Prerequisite: 200. Study of the economic factors which affect the price level, national income, employment, economic growth. No credit if 244 already taken.

244 INTRODUCTION TO ECONOMIC ANALYSIS 3 credits Recommended for engineering and mathematical science majors. Intensive introduction to analysis of modern industrial society and formulation of economic policy. Structure of economic theory and its relation to economic reality. No credit to a student who has completed 200, 201.

248 CONSUMER ECONOMICS 3 credits Spending habits of American consumers; influences affecting their spending decisions, personal finance, budget planning, saving programs, installment buying, insurance, investments, housing finance.

330 LABOR PROBLEMS

3 credits Prerequisites: 200, 201, or 244. Labor economics, principles and public policy. Study of structure of labor market and impact unions have on labor management relations.

333 LABOR ECONOMICS

3 credits Prerequisite: 200 or 244. Theoretical tools used in analysis of problems of labor in any modern economic system. Emphasis given to examination of determinants of demand for and supply of labor.

360 INDUSTRIAL ORGANIZATION AND PUBLIC POLICY 3 credits Prerequisites: 200 or 244. Role of industrial structure and firm conduct in performance of industry and way in which antitrust policy is designed to provide remedies where performance is unsatisfactory

380 MONEY AND BANKING

Prerequisite: 201. Institutions of money, banking and credit, monetary expansion and contraction, public policies affecting this process, development of our money and banking system.

385 ECONOMICS OF NATURAL RESOURCES AND THE ENVIRONMENT 3 credits Prerequisites: 100 or 200 or 244 or permission. Introduction to economic analysis of use of natural resources and economics of environment. Problems of water and air pollution, natural environments, natural resource scarcity, conservation, economic growth.

400 INTERMEDIATE MACROECONOMICS

3 credits Prerequisites: 201 and 3450:145 or equivalent. Changes in national income, production, employment, price levels, long-range economic growth, short-term fluctuations of economic activity.

405 ECONOMICS OF THE PUBLIC SECTOR 3 credits Prerequisites: 200 and 201, or 244. Considers nature and scope of government activity, rationale for government intervention, problems of public choice, taxation and revenue-raising, cost-bene fit analysis, program development and evaluation.

410 INTERMEDIATE MICROECONOMICS

3 credits Prerequisites: 200 or 244, and 3450:145 or equivalent. Advanced analysis of consumer demand, production costs, market structures, determinants of factor income.

420 MATHEMATICAL ECONOMICS I

Prerequisites: 200 or 244 and 3450:215 or permission of instructor. Mathematical treatment of economic theory in framework of comparative statics. Emphasis on theory of the firm, theory of consumer behavior, general equilibrium analysis and welfare analysis.

421 MATHEMATICAL ECONOMICS II

Prerequisite: 420 or permission of instructor. Use of calculus and linear algebra to dynamic economic analysis; solution techniques; some significant dynamic models from literature.

427/527 ECONOMIC FORECASTING 3 credits Prerequisite; 3470:460,461 or permission of instructor. Study of methods for building, identifying, fitting and checking dynamic economic models and the use of these models for forecasting. Emphasis is on the application of available computer software systems.

430/530 LABOR MARKET POLICY 3 credits Prerequisites: 330 or 333. Intensive study of current labor market policy issues (e.g., discrimination, poverty, the changing industrial structure, and the economics of education).

431 LABOR AND THE GOVERNMENT 3 credits requisite: 330. Development of public policy for control of industrial relations, from judicial control of 19th Century to statutory and administrative controls of World War II and postwar periods.

- 432 THE ECONOMICS AND PRACTICE OF COLLECTIVE BARGAINING 3 credits Prerequisite; 200 or 244. Principles and organization of collective bargaining, collective bargaining agreements, issues presented in labor disputes and settlements, union status and security, age scales, technological change, production standards, etc.
- 440/540 SPECIAL TOPICS: ECONOMICS 3 credits Prerequisite: permission. Opportunity to study special topics and current issues in economics
- 450/550 COMPARATIVE ECONOMIC SYSTEMS 3 credits Prerequisites: 200 and 201 or 244 or permission of instructor. Systems of economic organization, ranging from the theoretical extreme of a perfectly free market economy to the socialist varieties. Historical evolution of economic systems covering problems in theory and practice.
- 460/560 ECONOMIC DEVELOPMENT AND PLANNING FOR 3 credits UNDERDEVELOPED COUNTRIES

Prerequisites: 200 and 201, or 244. Basic problems in economic development. Theories of development. Government planning for development. Trade and development of underdevel-oped countries. Credit not available for students with credit for 3250:684.

- 461/561 PRINCIPLES OF INTERNATIONAL ECONOMICS 3 credits Prerequisites: 200 and 201, or 244, International trade and foreign exchange, policies of free and controlled trade, international monetary problems.
- 475/575 DEVELOPMENT OF ECONOMIC THOUGHT 3 credits Prerequisites: 200 and 201, or 244. Evolution of theory and method, relation of ideas of economists contemporary to conditions
- 481/581 MONETARY AND BANKING POLICY 3 credits Prerequisites: 380, 400. Control over currency and credit, policies of control by central banks and governments, United States Treasury and Federal Reserve System.
- 487/587 URBAN ECONOMICS: THEORY AND POLICY 3 credits Prerequisite: 200 and 201 or 244 or permission of instructor, Analysis of urban issues from an economic perspective. Emphasis on urban growth, land-use patterns, housing, income distribution, poverty and urban fiscal policy.
- INDEPENDENT STUDY IN ECONOMICS 1-3 credits (May be repeated for a total of six credits) Prerequisite: permission of instructor. Independent study in economics under supervision and evaluation of selected faculty member.
- 491/591 WORKSHOP IN ECONOMICS 1-3 credits (May be repeated) Group studies of special topics in economics. May not be used to meet undergraduate or graduate major requirements in economics. May be used for elective credit onty
- 497 HONORS PROJECT 1-3 credits (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. Individual senior honors thesis on a creative project relevant to economics, approved and supervised by faculty member of the department.

ENGLISH

3300:

3 credits

3 credits

- 111 ENGLISH COMPOSITION I 4 credits Extensive and varied experience in developing writing skills, with practice in expressive, reflective, and analytic forms of writing.
- 112 ENGLISH COMPOSITION II 3 credits Prerequisite: 111. Designed to develop skills in analyzing and writing persuasive arguments
- 250 CLASSIC AND CONTEMPORARY LITERATURE 3 credits Prerequisites: 111 and 112 or their equivalents, and 3400:210, or permission of the instructor. Close reading and analysis of fiction, poetry, and drama from the evolving canon of American, British, and World literature. This course fulfills the General Education Humanities Requirement. It cannot be used to meet requirements in English.
- 251 TOPICS IN WORLD LITERATURE 3 credits Prerequisites: 111 and 112; and 3400:210 or permission of instructor. Close reading and analysis of various themes represented in world literatures, both ancient and modern. This course fulfills the General Education Humanities Requirement. It cannot be used to meet requirements in Enalish
- 252 SHAKESPEARE AND HIS WORLD 3 credits Prerequisites: 111 and 112 or their equivalents, and 3400:210. An introduction to the works of Shakespeare and their intellectual and social contexts. Each section "places" Shakespeare through compact readings of works by the playwright's contemporaries. This course fulfills the General Education Humanities Requirement. It cannot be used to meet requirements in English.
- 255 POPULAR FICTION 3 credits Prerequisites: 111 and 112 or their equivalents. A close reading of types of popular fiction and how it reflects cultural attributes.
- 275 SPECIALIZED WRITING 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. (May be repeated for different topics, with permission) Principles and practice of style, structure and purpose in writing, with special applications to writing demands of a specific career area.

277 INTRODUCTION TO POETRY WRITING

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Practice in writing poems. Study of techniques in poetry, using contemporary poems as models. Class discussion of student work. Individual conferences with instructor to direct student's reading and writing.

3 credits

278 INTRODUCTION TO FICTION WRITING

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Practice in writing short stories. Study of various techniques in fiction, using con temporary sto-ries as models. Class discussion of student work. Individual conferences with instructor to direct student's reading and writing.

279 INTRODUCTION TO SCRIPT WRITING

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Practice in writing scripts. Study of various techniques in script writing, using contemporary models for study. Class discussion of student work. Individual conferences with instructor to direct student's reading and writing.

280 POETRY APPRECIATION

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Close reading of a wide selection of British and American poems with emphasis on dramatic situation, description, tone, analogical language, theme and meaning.

281 FICTION APPRECIATION

Prerequisite: Completion of 111 and 112 or their equivalents, and 3400:210. Close reading of modern masters of short story and novel. Fulfills the General Education Humanities

282 DRAMA APPRECIATION

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. (May be repeated for credit as a text or a film appreciation course) Close reading and analysis of a variety of plays.

283 FILM APPRECIATION

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Introduction to dramatic choices made by filmmakers in scripting, directing, editing and photographing narrative films; and qualities of reliable film reviews.

300 CRITICAL READING AND WRITING

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. An introduction to English studies, focusing on critical methods for reading and writing about literature, with attention to research skills and uses of computer technology.

301 ENGLISH LITERATURE I

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Studies in English literature from Old English to 1800, with emphasis upon specific representa-tive works and upon the cultural and intellectual background which produced them. Literature to be read will include both major and minor poetry, prose and drama.

302 ENGLISH LITERATURE II

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Studies in English literature from 1800 to present. Emphasis will be given to cultural and intellec-tual backgrounds and to the development of various modes and genres.

315 SHAKESPEARE: THE EARLY PLAYS

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Introduction to early drama of Shakespeare with close reading of tragedies, histories and comedies. Includes explanatory lectures of both the plays and their backgrounds.

316 SHAKESPEARE: THE MATURE PLAYS

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Study of Shakespeare's plays after 1598, beginning with mature comedies. Concentration on major tragedies and romances.

341 AMERICAN LITERATURE I

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor Historical survey of major and minor American writers to 1865.

342 AMERICAN LITERATURE II

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Readings in major and minor American writers from 1865 to present.

350 BLACK AMERICAN LITERATURE

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Survey of representative black American writers from the 19th Century to present, with particular attention to historical and social backgrounds.

354 FICTION OF THE SOUTH

Prerequisite: Completion of 111 and 112. A study of novels and short stories by major Southern authors such as Faulkner, O'Connor and Styron.

360 THE OLD TESTAMENT AS LITERATURE

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor, History of Hebrews to 586 B.C., as revealed through epic, fiction, saga and poetry, viewed against background of the Oriental World.

361 THE NEW TESTAMENT AND APOCRYPHA AS LITERATURE

Prerequisite: Completion of 111 and 112. These two bodies of literature read with emphasis on form of gospel and epistle, and concept of apocalypse. Both are viewed against their historical and social backgrounds.

366 EUROPEAN BACKGROUNDS OF ENGLISH LITERATURE

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Representative continental texts from Homer to Cervantes, selected both for their excellence and for their important influence on English and American literature.

371 INTRODUCTION TO LINGUISTICS

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Scientific introduction to the study of written and spoken linguistic behavior in English. History of English, varieties of English, and acquisition of English also introduced.

376 LEGAL WRITING 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Intensive practice in writing for prelaw students through assignments based on actual legal situations and real cases. Particular attention to stating legal issues, writing persuasively, applying rules of law, and other topics that will help those preparing for law school and the profession.

377 ADVANCED POETRY WRITING 3 credits Prerequisites: 277, and 111 and 112 or their equivalents, or permission of the instructor. Advanced practice in writing poems, emphasis on shaping publishable works. Survey of market. Class discussion of student poems, individual conference with instructor.

378 ADVANCED FICTION WRITING 3 credits

Prerequisites: 278, and 111 and 112 or their equivalents, or permission of the instructor. Advanced practice in writing short stories, emphasis on shaping publishable works. Survey of market. Class discussion of student stones; individual conference with instructor.

380 FILM CRITICISM 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Application of literary critical theory to the study of film.

382 CONTEMPORARY CANADIAN LITERATURE 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Aspects of Canadian literature distinguishing it from other literatures will be identified and analyzed to determine how literature shapes a sense of national identity. Also counts toward certificate in Canadian Studies.

389 SPECIAL TOPICS: LITERATURE AND LANGUAGE

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. (May be repeated for credit as different topics are offered). Traditional and nontraditional topics in English literature and language, supplementing course listed in this General Bulletin, generally constructed around theme, genre and language study.

PROFESSIONAL WRITING I

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Designed to help prepare student for a career as professional business writer. Stresses theory and practice of written and oral communication in business organization. Individual and group performance, relating to communication theories, concepts of semantics. Functional writing as well as special needs of business are illustrated by actual cases. Adapting style and organization is practiced.

391 PROFESSIONAL WRITING II

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Designed to help prepare student for a career as professional technical writer. Covers principles and practices concerning editing company technical communications, such as specifications. annual reports, promotional brochures for technical products, services, scientific abstracts, proposals. Also treats problems of adapting materials to formats, graphic display of technical infor-mation, adaptation of technical material to nontechnical reader.

392 INTERNSHIP IN ENGLISH

Prerequisite: Minimum GPA of 2.5, permission of the instructor. (May be repeated for a maximum of six credits.) Critical reading and writing focused on career applications of the discipline of English. May count up to three credit hours toward the English major.

399 THE GOTHIC IMAGINATION

3 credits Prerequisite: Completion of 111 and 112. A loosely chronological study of major British, American and European authors in the Gothic tradition. Focus on literary conventions of Gothic fiction, to the "popular" nature of the literature and to its major themes/motifs.

400/500 ANGLO SAXON

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Studies in Old English language and Old English prose and poetry, including Beowulf

403/503 DEVELOPMENT OF THE ARTHURIAN LEGEND 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Traces evolution of Arthurian materials from 540 to 1500 and beyond, with emphasis on characters, themes, events and treatments.

406/506 CHAUCER

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Close study of Chaucer's major works The Canterbury Tales and Troilus and Criseyde in Middle English.

407/507 MIDDLE ENGLISH LITERATURE

3 credits Prerequisite: Completion of 111 and 112. Study of genres, topics, styles and writers of the Middle English literary works from 12th to 15th Centuries. Readings in Middle English.

416 METAPHYSICAL POETS

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor, Selected 17th-Century British poets exclusive of John Donne. The course examines the particular styles and themes of the secular and sacred poets who wrote in the metaphysical mode. Particular emphasis is placed on Herbert, Crashaw, Vaughan, Traherne, Marvell, Cowley, Cleveland, Southwell and King.

421/521 SWIFT AND POPE

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. An intensive study of the major satires of Swift and Pope. Concentration on the rhetorical strategies of each author within the context of the shifting intellectual and cultural milieu at the end of the 17th and beginning of the 18th Centuries.

424/524 EARLY ENGLISH FICTION

3 credits Prerequisite: Completion of 111 and 112. Development of English novel before 1830. Focus on works of Defoe, Richardson, Fieldling, Smollet, Sterne, Austen and Scott.

425/525 STUDIES IN ROMANTICISM

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Literary, philosophical, psychological and social revolutions of romantic period as reflected in works of such major writers as Wordsworth, Byron and Keats.

430 VICTORIAN POETRY AND PROSE

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Poetry, prose of the late 19th Century, excluding fiction, with attention to Tennyson, Browning, Arnold, Carlyle, Ruskin and other major writers.

3 credits

3 credits

1-3 credits

- 431 VICTORIAN FICTION 3 credits rerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Reading of at least five major novels of Victorian era, of varying length, by Emily Bronte, Dickens, Eliot, Thackeray and Hardy, Characterization, theme and attitude toward life emphasized.
- 435 20TH CENTURY BRITISH POFTRY 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Concentrated study of major poems of Yeats, Eliot and Auden, with attention also to Hardy, Housman, Spender, C. Day Lewis, Dylan Thomas and others.

436 BRITISH FICTION: 1900-1925

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Study of Conrad, Joyce, D. H. Lawrence and Virginia Woolf, with attention to their innovations in narrative and style, their psychological realism and symbolism. Brief consideration of other important fiction writers of the period, including Wells, Bennett and Mansfield.

BRITISH FICTION SINCE 1925

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Study of important British novelists since 1925, excluding Lawrence, Joyce and Woolf. Attention to velopment of British short story from 1925 to present.

439/539 MODERN BRITISH AND IRISH DRAMA

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Study of major British dramatists, principally those of post-World War II. Focal figures are Shaw, Galsworthy, O'Casey, Osborne, Arden and Pinter.

448 AMERICAN ROMANTIC FICTION

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Examination of early American fiction, tracing its genesis, romantic period and germinal movements toward realism. Writers discussed include Cooper, Poe, Hawthome and Melville.

AMERICAN FICTION: REALISM AND NATURALISM

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Examination of American writers of realistic and naturalistic fiction (e.g., Howells, James, Crane, Dreiser), tracing developments in American fiction against background of cultural and historical change.

450 MODERN AMERICAN FICTION

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Study of significant American short and long fiction from World War I to the present.

AMERICAN POETRY TO 1900

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Survey of American poetry of the 17th, 18th and 19th Centuries.

452 MODERN AMERICAN POETRY

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Survey of 20th Century American poetry beginning with Edwin Arlington Robinson and ending with contemporary poets.

453/553 AMERICAN WOMEN POETS

Prerequisite: Completion of 111 and 112. Study of modern poets' uses and revisions of tradition, women's relationships, conceptions of art and of the artist-as woman, and the debate between public" and "private" poetry.

454 20TH CENTURY AMERICAN DRAMA

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Examination of major, established playwrights (including O'Neill, Miller and Williams) and sampling of new and rising ones.

THE AMERICAN SHORT STORY

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor, A study of the development of the short story as a particularly American genre, from Washington Irving to the present.

468 FAULKNER

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. An in-depth study of William Faulkner's major novels and short stories, primarily those set in the imaginary Yoknapatawoha region.

467/567 MODERN EUROPEAN FICTION

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Representative European writers from about 1850 to present, in translation. Focus on fiction of such writers as Dostovevsky, Gide, Camus, Mann, Kafka and Kundera.

469/569 EROS AND LOVE IN EARLY WESTERN LITERATURE

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. An analysis of the use of sex and love in the literature of the Western World from Greco-Roman times to 1800, with special emphasis on how sexuality and "romantic" love are used as allegorical, satiric, fantastic or realistic devices.

470/570 HISTORY OF ENGLISH LANGUAGE

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Development of English language, from its beginnings: sources of its vocabulary, its sounds, its rules; semantic change; political and social influences on changes; dialect origins; correctness.

471/571 U.S. DIALECTS: BLACK AND WHITE

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Study of differences in pronunciation, vocabulary and grammar among U.S. language varieties. Origins, regional and social dimensions are explored. Correctness, focusing on black English and Appalachian speech, explored.

472/572 SYNTAX

3 credits Prerequisites: 371, and 111 and 112 or their equivalents, or permission of the instructor. Principles of syntactic description. Sentence structures are investigated from a variety of languages, with emphasis on English.

473/573 SEMINAR IN TEACHING ESL: THEORY AND METHOD

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Theoretical issues in linguistic description and language acquisition as relevant to learning of a second language. Elaboration of principles for the teaching of English as a second language based on research in linguistics, psycholinguistics and second language pedagogy.

475/575 THEORY OF RHETORIC

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Ancient and modern theories of rhetoric, with attention to classical oration, "topics" of rhetoric and their application to teaching of English.

482 SENIOR HONORS PROJECT IN ENGLISH

(May be repeated for a total of six credits). Prerequisites: Completion of 1100:111 and 1100:112 or their equivalents, or permission of the instructor, senior standing in Honors Program and approval of honors preceptor; open only to English majors enrolled in Honors Program. Independent study leading to completion of senior honors thesis or other original work.

1-3 credits

484 FANTASY

3 credits

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. A study of forms of literature, primarily fiction, based on and controlled by an overt violation of what is generally considered as possibility.

489/589 SEMINAR IN ENGLISH

2-3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor (May be repeated with different topics.) Special studies, and methods of literary research, in selected areas of English and American literature and language.

490/590 WORKSHOP IN ENGLISH

1-3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. (May be repeated with different topics) Group studies of special topics in English. Cannot be used to meet undergraduate or graduate major requirements in English; for elective credit only.

498 INDEPENDENT STUDY 1-3 credits Prerequisite: completion of 111 and 112 or their equivalents. Directed study in a special field of interest chosen by student in consultation with instructor.

GEOGRAPHY AND PLANNING

3350:

- 100 INTRODUCTION TO GEOGRAPHY 3 credits Analysis of world patterns of population characteristics, economic activities, settlement features, landforms, climate as interrelated factors. 250 WORLD REGIONAL GEOGRAPHY 3 credits
- Survey of world regions with focus on both physical and human landscapes; emphasis on world patterns and issues from a regional perspective. GEOGRAPHY OF TRAVEL AND TOURISM 3 credits
- Prerequisite: 100. Examination of the spatial, cultural, and regional economic impact of tourism and travel; consideration of modes and purposes, origins/destinations, and tourism development and planning.
- 305 MAPS AND MAP READING 3 credits Introduction to use and interpretation of maps. Study of basic map types, elements, symbolism, and historical and cultural context of maps.
- 306 MAPPING THE EARTH 3 credits Introduction to Geographic Information Systems (GIS), remote sensing, and cartography, including Global Positioning Satellites (GPS) and spatial databases.
- 310 PHYSICAL AND ENVIRONMENTAL GEOGRAPHY 3 credits Landforms, weather and climate, soils and vegetation and natural hazards. Nature and distribution of these environmental elements and their significance to society. Laboratory.
- 314 CLIMATOLOGY 3 credits Prerequisite: 310 or permission. Analysis and classification of climates, with emphasis on regional distribution. Basic techniques in handling climate data.
- 320 ECONOMIC GEOGRAPHY 3 credits Geographical basis for production, exchange, consumption of goods. Effect of economic pattems on culture and politics.
- 330 RURAL AND URBAN SETTLEMENT 3 credits Origin, function and rationale of settlements, includes analysis of rural settlement landscape as well as fundamentals of urban geography.
- 335 RECREATION RESOURCE PLANNING 3 credits Prerequisite: 330 or permission. Effect of physical and economic environment on recreational patterns. Case studies of important recreational activities and areas in which tourism contributes significantly to the area economy.
- 340 CARTOGRAPHY 3 credits Prerequisite: 305 or 306 or permission. Use of graphic/cartographic principles and techniques as a means of presenting geographical information on maps and producing maps. Laboratory,
- 350 GEOGRAPHY OF THE UNITED STATES AND CANADA 3 credits Prerequisite: 100 or permission. Regional and topical study of United States and Canada, with emphasis on environmental, economic and cultural patterns and their interrelationships
- OHIO: ENVIRONMENT AND SOCIETY 3 credits Regional and topical analysis of cultural, economic and environmental patterns; also in comperison with other states.
- 353 LATIN AMERICA 3 credits Prerequisite: 100 or permission. Analysis of relationship of cultural and economic patterns to physical environment in Mexico, Central America, the Caribbean and South America.

356 EUROPE 3 credits Prerequisite: 100 or permission. Regional and topical analysis of cultural, economic and environmental patterns.

380 4514 3 credits Prerequisite: 100 or permission. Environmental, cultural and economic geography of East,

Southeast, South Asia and Middle East with emphasis on the contemporary. AFRICA SOUTH OF THE SAHARA 3 credits Prerequisite: 100 or permission. Environmental and human bases of regional contrasts. Emphasis

on tropical environmental systems and changing patterns of resource utilization.

1-3 credits

3 credits

1 credit

1 credit

1 credit

375 GEOGRAPHY OF CULTURAL DIVERSITY

Evaluation of cultural elements unique to various geographical regions to explain why different people utilize resources differently, and how cultural diversity affects regional conflicts.

SPECIAL PROBLEMS 397

(May be repeated for a total of five credits) Prerequisite: permission of instructor. Directed reading and research in special field of interest.

405/505 GEOGRAPHIC INFORMATION SYSTEMS

Prerequisites: 305 or 306 or permission. Introduction to the principles and concepts underlying geographic information systems (GIS) and their application in professional practice and academic research. Laboratory

407/507 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS

3 credits Prerequisites: 405/505. Advanced instruction in the theory and application of geographic information systems (GIS) including hands-on experience with both raster and vector GIS. Laboratory.

415/515 ENVIRONMENTAL PLANNING

Scientific and technical principles for decision-making in planning, with emphasis on soils, land use, and water quality issues. Data sources and methods of site evaluation.

420/520 URBAN GEOGRAPHY

Prerequisite: 3850:100 or 3250:100 or permission. Spatial structure of urban systems; interaction een cities; internal structure of cities. Perspectives on urban change; contemporary urban geographic problems; urban and regional planning issues.

422/522 TRANSPORTATION SYSTEMS PLANNING

Prerequisite: 320 or permission. Study and analysis of transportation systems from a geographic perspective. Emphasis on transportation problems and issues, elements of transportation planning.

428/528 INDUSTRIAL AND COMMERCIAL SITE LOCATION

Prerequisite: 320 or permission. Relationship between land, resources, population, transportation and industrial and commercial location processes.

432/532 LAND USE PLANNING LAW

Acquaint student with past and present approaches to land use control in the United States and examine the political, economic, social and legal forces that have shaped existing land-use legislation.

433/533 PRACTICAL APPROACHES TO PLANNING

Introduction to the history, theories and forms of urban planning. 3 credits

436/536 URBAN LAND USE ANALYSIS

Prerequisite: 330 or permission. Land use classification systems and their spatial variation in urban areas. Land use data are collected by student by field work and analyzed to identify the associations and structure of subregions.

437/537 PLANNING ANALYSIS AND PROJECTION METHODS

Introduction to the primary analytic techniques for small-area demographic and economic analysis and projection.

438/538 LAND USE PLANNING METHODS

Application of GIS and other computer-based tools to the preparation, implementation and evaluation of comprehensive land use plans.

439/539 HISTORY OF URBAN DESIGN AND PLANNING

Origins of human settlements and planning from the perspective of urban design and related societal trends. Comparison of world regional and historical urban forms. Experience in "reading" settiements as visual landscapes.

442/542 THEMATIC CARTOGRAPHY

Prerequisite: 340 or permission: Principles and techniques of thematic mapping. Stresses maps as communications tools. Examines principle thematic mapping techniques and means of presenting qualitative and quantitative data. Laboratory.

444/544 APPLICATIONS IN CARTOGRAPHY AND

GEOGRAPHIC INFORMATION SYSTEMS 3 credits Prerequisite: 340 or 540 and 405 or 505 or permission. Application of analytic and presentation techniques from cartography and geographic information systems to practical problems in geography and planning. Laboratory

447/547 REMOTE SENSING

Prerequisite: 305 or 306 or permission. Concepts, systems, and methods of applying aerial photography, satellite imagery, and other remote-sensing data for analyzing geographic, geological, and other earth phenomena

448/548 ADVANCED CARTOGRAPHY

requisite: 340/540 or permission. Advanced study of cartographic principles with an emphasis on the use of color for map design and production. Laboratory activities.

449/549 ADVANCED REMOTE SENSING

Prerequisite: 447/547 or permission. Current research in remote sensing. Applications in study of human cultural and biophysical environment. Practice in planning, design, execution and interpretation of remote sensing studies.

450/550 DEVELOPMENT PLANNING

A study of planning concepts and techniques for developing countries, including growth and development, planning agencies, regional inequities and alternative approaches

471/571 MEDICAL GEOGRAPHY AND HEALTH PLANNING

Spatial analysis of diseases; their socioeconomic correlates; diffusion pattern of infectious dis ases with particular reference to North America; health-planning processes and spatial analysis of health-care delivery systems.

481/581 RESEARCH METHODS IN GEOGRAPHY AND PLANNING

Prerequisites: 12 credits in Geography and Planning. Investigation of library and archive resources. Emphasis on development of professional writing skills.

483/583 SPATIAL ANALYSIS

3 credits Prerequisite: 481/581 or permission. Analysis of mapped statistical surfaces. Principles for use of map as model for statistical evidence, prediction, hypothesis testing.

485 **GEOGRAPHY AND PLANNING INTERNSHIP**

Prerequisite: permission. (May be repeated for a total of six credits.) Supervised professional experience in planning agencies or related settings. Only three credits can be used toward a degree in Geography and Planning.

- 489/589 SPECIAL TOPICS IN GEOGRAPHY (May be repeated) Selected topics of interest in geography.
- 490/590 WORKSHOP IN GEOGRAPHY 1-3 credits (May be repeated for a total of six credits) Group studies of special topics in geography.
- 495/595 SOIL AND WATER FIELD STUDIES 3 credits Prerequisite: 310 or permission. Properties, origins and uses of major soil and water regime landscapes. Stresses relationships between soil and the hydrological cycle, urbanization, suburbanization and agriculture. Field trips required.
- 496/596 RELD RESEARCH METHODS 3 credits Prerequisite: 481/581 or permission. Field work enabling student to become competent in collecting, organizing and analysis of data while carrying out field research projects.
- 498 HONORS RESEARCH IN GEOGRAPHY 1-3 credits (May be repeated for a total of six credits) Prerequisite: permission of department honors preceptor, honors student only. Exploration of research topics and issues in contemporary geography. Selection of research topic and writing of research paper in proper scholarly form under direction of faculty member.

GEOLOGY

3370:

2 credits

1-3 credits

3 credits

1-3 credits

- 100 EARTH SCIENCE
- Introduction to earth science for non-science majors. Survey of earth in relation to its physical composition, structure, history, atmosphere, oceans; and relation to solar system and universe.
- 101 INTRODUCTORY PHYSICAL GEOLOGY 4 credits A study of the nature of earth, its materials, and the processes which continue to change it. Laboratory.
- 102 INTRODUCTORY HISTORICAL GEOLOGY 4 credits Prerequisite: 101. Geologic history of earth, succession of major groups of plants and animals interpreted from rocks, fossils, Laboratory,
- 103 NATURAL SCIENCE: GEOLOGY 3 credits Study of basic principles and investigative techniques in various fields of geology with emphasis on relationship of geologic processes to society.
- 121-140 CONCEPTS IN GEOLOGY 1 credit each A series of one-credit modules designed to introduce specific topics of science and the scientific method from the perspective of geologists.
- 121 DINOSAURS 1 credit Introductory course exploring the geological occurrence, mode of fossilization, evolutionary development, habits, and sudden extinction of the largest known land vertebrates.
- 122 MASS EXTINCTIONS AND GEOLOGY 1 credit Catastrophic changes in plants and animals have occurred throughout earth history. The causes of these extinctions have sperked debate which has enlivened the scientific world.
- 125 EARTHQUAKES: WHY, WHERE, WHEN? 1 credit Causes and effects of earthquakes, geological settings for earthquakes, seismic measurements, mechanical response of rock to stress, earthquake prediction and precautionary measures.
- 127 THE ICE AGE AND OHIO 1 credit Introductory course covering the effects of the ice age on the geology, vegetation, fauna and economy of Ohio.
- 128 GEOLOGY OF OHIO 1 credit Survey of Ohio's geologic setting and history, natural resources, landforms, and their signifi-cance in terms of human activity, from early settlement to future economy.
- 129 MEDICAL GEOLOGY 1 credit Abundance and distribution of trace elements in surface and groundwater, soils and rocks. The effects of trace elements to health through dose-response relationships.
- 132 GEMISTONES AND PRECIOUS METALS 1 credit Introduction to minerals which form gemstones and precious metals. Topics to be covered include physical properties, geologic occurrences, and geographic locations of major deposits.
- 133 CAVES 1 credit Topics include: karst processes and the origin of caverns; carbonate depositional environments and the origin of limestones; environmental problems associated with karst landscapes
- 135 GEOLOGY OF ENERGY RESOURCES 1 credit Topics include the origin of hydrocarbon and coal deposits, methods of petroleum exploration. global distribution of hydrocarbon resources.

136 EARTH'S OCEANS

Introduction to the geological evolution of oceans and discussion of factors controlling ocean currents, tides and development of coastlines

- 137 EARTH'S ATMOSPHERE AND WEATHER 1 credit
 - Structure and composition of the atmosphere; earth's radiation budget; atmospheric moisture, clouds and precipitation; weather systems and storms, severe weather, Ohio weather.

CURRENT TOPICS 139

(May be repeated for up to 2 credits.) Special topics offered once or only occasionally in areas where no formal course exists

ROCKY MOUNTAIN NATIONAL PARKS

Badlands, Yellowstone, Grand Canyon and other Rocky Mountain National Parks will be used to illustrate basic principles of geology.

200 ENVIRONMENTAL GEOLOGY 3 credits Analysis of geologic aspects of the human environment with emphasis on geologic hazards and environmental impact of society's demand for water, minerals and energy.

3 credits

201 EXERCISES IN ENVIRONMENTAL GEOLOGY | 1 credit Prerequisite or corequisite: 200. Recognition, evaluation of environmental problems related to geology through field, laboratory exercises and demonstrations which apply concepts from 200. Laboratory.

202 GEOLOGY OF THE NATIONAL PARKS 3 credits Prerequisite: 100 or 101 or 103. Geologic setting of major national parks, interpreted in terms of geological principles and processes which shaped them in past and/or currently affect them, including the rock cycle, evolution of landscapes and plate tectonics.

- 203 EXERCISES IN ENVIRONMENTAL GEOLOGY II 1 credit Prerequisites: 200 (or corequisite) and 201. Recognition and evaluation of environmental problems related to geology. (Continuation of 201) Laboratory.
- CRYSTALLOGRAPHY AND NON-SILICATE MINERALOGY 230 3 credits Prerequisites: 101 and 3150:151, 152. Morphological crystallography and crystal chemistry of minerals, followed by physical and chemical properties, crystal structure, occurrence and uses of the common non-silicate minerals. Laboratory
- 231 SILICATE MINERALOGY AND PETROLOGY 3 credits Prerequisites: 101 and 3150:151, 152. Recommended: 230. Physical and chemical properties, crystal structure, occurrence, and uses of common silicate minerals, followed by megascopic identification, classification, and petrogenesis. Laboratory.
- 301 ENGINEERING GEOLOGY 3 credits Prerequisites: Four credits in introductory physical geology and permission. Presents quantitative analysis of geologic features and processes and is supported by the study of case histories. Lecture, lab, and field study.

310 GEOMORPHOLOGY

Prerequisite: 101. Study of landforms as a function of structure, process, and time. Laboratory.

- 324 SEDIMENTATION AND STRATIGRAPHY 4 credits Prerecuisites; 102 and 231. Introduction to sedimentary processes and environments; stratigraphic principles and techniques. Hand specimens, thin sections, and sedimentary sequences studied. Laboratory.
- 350 STRUCTURAL GEOLOGY 4 credits Prerequisite: 101 or permission. Origins and characteristics of folds, faults, joints and rock cleavage. Structural features of sedimentary, igneous and metamorphic rocks. Laboratory.

360 INTRODUCTORY INVERTEBRATE PALEONTOLOGY

Prerequisite: 102 or permission. Introductory course emphasizing morphology and evolution of major invertebrate groups with consideration of practical applications of paleontology. Laboratory

OCEANOGRAPHY 4 credits Prerequisite: 101. Study of the dominant feature of our planet, the oceans, emphasizing ocean basins evolution, and physical, chemical and biological processes in the various marine environments

405/505 ARCHAEOLOGICAL GEOLOGY 3 credits Prerequisites: 101, or permission. Provides background in geologic principles and techniques relevant to archaeologists. Topics include stratigraphy, absolute dating, locality assessment, zooarchaeology, taphonomy, and remote sensing. Laboratory.

410/510 REGIONAL GEOLOGY OF NORTH AMERICA

Prerequisites: 101, 102, or permission; recommended: 350. Examination of physiographic provinces of North America emphasizing structure, tectonic setting, stratigraphy and processes responsible for landforms in each province. Laboratory.

411/511 GLACIAL GEOLOGY

Prerequisite: permission. Causes and effects of Pleistocene expansion of polar ice masses with emphasis on glacial deposits and world climatic changes. Laboratory.

421/521 COASTAL GEOLOGY

Prerequisites: 101, 324 or permission of instructor. Study of the origins and evolution of coasts and coastal deposits with particular attention paid to the interaction of waves and currents with sediment, and the development of associated sedimentary features.

425/525 PRINCIPLES OF SEDIMENTARY BASIN ANALYSIS

Prerequisites: 324 and 360 or permission. Primarily the study of depositional systems, regional and global stratigraphic cycles, and sedimentation and plate tectonics.

432/532 OPTICAL MINERALOGY-INTRODUCTORY PETROGRAPHY

Prerequisites: 230 and 231. Optical techniques for identification, characterization, and classification of minerals and rocks using the petrographic microscope. Laboratory.

433/533 ADVANCED PETROLOGY

Prerequisite: 432/532. Petrogenesis of igneous, metamorphic and sedimentary rocks as determined by microscopic studies of textures and mineral assemblages using thin sections. Laboratory.

435/535 PETROLEUM GEOLOGY

Prerequisite: 350 or permission; recommended: 324. Natural occurrences of petroleum. Characteristics, origin, entrapment and exploration methods. Laboratory.

436/536 COAL GEOLOGY

3 credits Prerequisites: 101, 102; recommended: 324. Origin, composition and occurrence of coal with emphasis on depositional environments, coalification processes, exploration, evaluation and exploitation. Laboratory.

437/537 ECONOMIC GEOLOGY

Prerequisites: 231 and 350. Study of metallic and nonmetallic mineral deposits emphasizing paragenesis and exploration. Laboratory.

441/541 FUNDAMENTALS OF GEOPHYSICS

3 credits arequisites: 3450:223 or permission and 3650:292. Fundamental concepts in solid earth geophysics, planetary physics, geodesy, and geomagnetism. Contributions of geophysics to recent major developments in geoscience.

444/544 ENVIRONMENTAL MAGNETISM

Prerequisites: 101 or permission. Introduction to the theory and methods of environmental magnetism and the application of environmental magnetism to interpreting sedimentary deposits.

446/546 EXPLORATION GEOPHYSICS

Prerequisites: 3450:223, 3650:292 or permission. Basic principles and techniques of geophysical exploration with emphasis on gravimetric, magnetic, seismic and electrical methods and application to geological problems. Laboratory.

449/549 BOREHOLE GEOPHYSICS

Prerequisite: permission. Basic principles and techniques of geophysical well logging with emphasis on electrical, radioactive, and sonic measures and their quantitative evaluation. Applications in oil, gas, and groundwater exploration, Laboratory,

3 credits

3 cmdits

3 credits

3 credits

450/550 ADVANCED STRUCTURAL GEOLOGY

3 credits Prerequisite: 350 or permission. Fundamental and advanced concepts of structural geology with emphasis on current and developing concepts. Laboratory.

462/562 ADVANCED PALEONTOLOGY

Prerequisites: 360. Provides advanced training in paleontological subjects. Topics will include palecervironmental analysis, biostratigraphic correlation, fossil preservation, diversification and extinc-tion patterns and geochemical signals of fossils.

463/563 MICROPALEONTOLOGY

3 credits Prerequisite: 360 or permission. Introduction to techniques of micropaleontology evolution and paleoecology of selected microfossil groups. Laboratory.

Prerequisite: 101, 230, and 231, 3150:151, 152 and 153 or permission. Application of chemical prin-

470/570 GEOCHEMISTRY

3 credits

4 credits

3 credits

ciples to the study of geologic processes. Laboratory. 472/572 STABLE ISOTOPE GEOCHEMISTRY 3 credits

Prerequisite: 101 and 102; 3150:151, 152 and 153; 3450:221. Application of stable isotope geo chemistry to the study of hydrologic and carbon cycles, modern sedimentary environments, and the interpretation of sedimentary rocks.

474/574 GROUNDWATER HYDROLOGY

Prerequisite: 101. Origin, occurrence, regimen and utilization of groundwater. Qualitative and quantitative presentation of geological and geochemical aspects of groundwater hydrology. Laboratory. 481/581 ANALYTICAL METHODS IN GEOLOGY

Prerequisite: 230, 231. A survey of analytical methods used to solve geologic problems with empha-sis on method selection, proper sample collection, analysis of data quality and data presentation. 484/584 GEOSCIENCE INFORMATION ACQUISITION AND MANAGEMENT 1 credit

Prerequisite: Must be a Geology Department graduate student or senior major in Geology, or have permission of instructor. Methods for finding, gethering, managing, and evaluating geoscience information. Emphasis on finding data sources (including electronic), creating valid data sets, visualizing data.

INDIVIDUAL READINGS IN GEOLOGY 1-3 credits Prerequisite: permission of instructor. (May be repeated for a total of 4 credits) Independent study and directed readings on a selected topic to fit an individual student's program.

490/590 WORKSHOP 1-3 credits (May be repeated) Group studies of special topics in geology. May not be used to meet undergraduate or graduate major requirements in geology. May be used for elective credit only.

493/593 GEOLOGY FIELD CAMP I 3 credits Prerequisites: 101 and 102 and permission; Introduction to collection and interpretation of field data and construction of geologic maps.

494/594 GEOLOGY FIELD CAMP II 3 credits Prerequisites: 231, 350, 493/593, or permission. Advanced techniques and methods of field geolony necessary for detailed geologic maps and interpretations.

495 FIELD STUDIES IN GEOLOGY 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Field trip course emphasizing phases of geology not readily studied in Ohio. Includes pretrip preparation and post-trip examination. Student will bear trip expenses.

497 SENIOR HONORS PROJECT IN GEOLOGY 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program. permission of department honors preceptor and major in geology or natural science. Independe research leading to completion of senior honors thesis or other original work under guidance of student's honors project adviser.

8 SPECIAL TOPICS 1-3 credits Prerequisite: permission of instructor. Special lecture courses offered once or only occasionally in areas where no formal course exists.

499 RESEARCH PROBLEMS 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Independent research leading to the completion of a written paper or presentation at a professional meeting.

HISTORY

3400:

200 EMPIRES OF ANCIENT ASIA 3 credits Comparative study of the formative empires East, South, and western Asia. Emphasis on the origins and development of core institutions and early writings.

- 210 HUMANITIES IN THE WESTERN TRADITION & ANTIQUITY TO THE RENAISSANCE 4 credits Prerequisites: 32 credits and completion of 3300:112. Introduction to the human condition in the past as manifested in the ideas, religions, visual arts and music of Western civilization from the ancient Greeks through the Renaissance. Cannot be used to meet major requirements in History.
- 211 HUMANITIES IN THE WESTERN TRADITION & REFORMATION TO THE PRESENT 4 credits Prerequisite: 3400:210. Introduction to the human condition in the past as manifested in the ideas, religions, visual arts and music of Western civilization from the Protestant Reformation to the Present. Cannot be used to meet major requirements in History.
- 250 UNITED STATES HISTORY TO 1877 4 credits Historical survey from the Age of Discovery and North American colonization through the cre-ation of the United States to the Civil War and Reconstruction.
- 4 credits 251 UNITED STATES HISTORY SINCE 1877 Survey of United States history from the end of Federal Reconstruction to the present.

260	AFRICAN-AMERICAN PEOPLE OF THE U.S 1492 TO 1877 Survey of social, economic, political and cultural history of African-American people from 1492	<i>3 credits</i> 2 to 1877.
261	AFRICAN-AMERICAN PEOPLE OF THE U.S 1877 TO PRESENT Survey of social, economic, political and cultural history of African-American people from 1877 to	3 credits o present.
300	IMPERIAL CHINA Selective study of institutional, intellectual, political and artistic developments in Chine tion from antiquity to 18th Century. Emphasis on general features of traditional Chinese	<i>3 credits</i> se civiliza- e culture.
301	MAO'S CHINA History of China from 1911-1976 emphasizing the role of Mao Zedong in China's rev experience, particularly from 1928-1976.	3 credits olutionary
303	JAPAN Survey of history of Japan from 1600 to present. Emphasis on modernization and t Japanese empire, 1894-1945.	3 credits he rise of
307	ANCIENT NEAR EAST Mesopotamia, Egypt; Israel, and neighbors to Persian Empire.	3 credits
308	GREECE Minoans and Mycenaeans; classical Greece to triumph of Macedon.	3 credits
310	HISTORICAL METHODS Introduction to historical research and writing. Required for history major.	3 credits
313	EASTERN ROMAN EMPIRE Byzantine culture and history from 324 to the fall of 1453.	3 credits
317	ROMAN REPUBLIC An intensive survey of the Roman Republic. Attention will be given to the nature of t material, ancient historiography, text criticism and the like.	3 credits he source
318	ROMAN EMPIRE An intensive survey of the Roman Empire. Attention will be given to the nature of t material, ancient historiography, text criticism and the like.	<i>3 credits</i> he source
319	MEDIEVAL EUROPE, 500-1200 Migration of peoples, Carolingian revival, renewed invasions; social, economic and i stimings lead to "birth of Europe."	3 credits ntellectual
320	MEDIEVAL EUROPE, 1200-1500 Middle Ages and the middle class; economic and political change, international w unrest and religious crosscurrents.	<i>3 credits</i> ars, social
321	EUROPE: RENAISSANCE TO RELIGIOUS WARS, 1350-1610 Survey of the social, political, economic, religious, and intellectual history of Earl Europe from the Italian Renaissance to the early 17th century.	<i>3 credits</i> y Modern
322	EUROPE: ABSOLUTISM TO REVOLUTION, 1610-1789 Survey of the social, political, economic, religious, and intellectual history of Early Mode from the Thirty Years War to the French Revolution.	<i>3 credits</i> am Europe
323	EUROPE FROM REVOLUTION TO WORLD WAR, 1789-1914 Surveys the political, economic, social, and cultural history of modern Europe from t Revolution to the First World War.	<i>3 credits</i> he French
324	EUROPE FROM WORLD WAR I TO THE PRESENT A survey of European political and social history from World War I to the present.	3 credits
325	WOMEN IN MODERN EUROPE A survey of the history of women in Europe since 1500, with emphasis on their role changes attendant on modernization.	<i>3 credits</i> as and the
335	RUSSIA TO 1801 Survey of Russian history from Kievan period to death of Paul I, emphasizing developme cratic government, Russian culture, reigns of Peter and Catherine.	3 credits nt of auto-
336	RUSSIA SINCE 1801 Survey of 19th and 20th Centuries. Special emphasis on problems of modernization, the and development of communism.	3 credits revolution
337	FRANCE FROM NAPOLEON TO DeGAULLE Combines a study of Napoleon and DeGaulle with a survey of the political, economic, soci tural/artistic trends of modern French history.	<i>3 credits</i> al, and cul-
338	ENGLAND TO 1688 Survey of English history from the Anglo-Saxon conquest to the Revolution of 1688. Me early modern institutions, social and cultural life.	<i>3 credits</i> dieval and
339	ENGLAND SINCE 1688 Survey of English history from 1688 to the present. The reform of English institutions and emization of the economy, the welfare state, society and war.	<i>3 credits</i> I life, mod-
340	SELECTED TOPICS Includes experimental offerings such as those crossing subject of chronological lines, an not listed in this General Bulletin. See departmental office for current subject.	<i>3 credits</i> d subjects
341	ISLAMIC FUNDAMENTALISM AND REVOLUTION The political and socio-economic roots of Islamic reformism and militancy in the Middle North Africa since the 1960s.	<i>3 credits</i> East and
342	THE CRUSADES THROUGH ARAB EYES Political and military struggles, diplomatic practices and intellectual traditions of the Islamic/Arab world and the Western crusaders.	<i>3 credits</i> Medieval
342	North Africa since the 1960s. THE CRUSADES THROUGH ARAB EYES Political and military struggles, diplomatic practices and intellectual traditions of the Islamic/Arab world and the Western crusaders.	3 credits Medieval

345	NATIVE NORTH AMERICAN HISTORY	3 credits
	The histories of Native Americans from Columbus to the present, emphasizing a half-mill adaptive compares to the presence of Europeans in North America.	lennium of
250	Augure responses to the presence of Europeans in North Parloined.	3 condits
300	Changing roles, status, self-images and activities of women in context of American social, political and intellectual movements.	economic,
352	THE WEST IN THE DEVELOPMENT OF THE UNITED STATES	3 credits
	Examination of westward movement from revolution to closing of frontier; types of fronti of west on nation's development.	ers; impact
354	AMERICAN IMMIGRATION	3 credits
	Examination of European migrants to American colonies and United States, their reasons Europe and coming to America, and their experience after arrival.	tor leaving
356	SPORTS IN AMERICAN HISTORY SINCE 1865 An examination of the reciprocal relationship between sports and various institutions of s ture, religion, politics, education, economics, race, ethnicity, diplomacy and gender.	<i>3 credits</i> ociety: cul-
358	THE AMERICAN CITY Development of urbanization and its consequences from colonial period to present.	3 credits
360	UNITED STATES MILITARY HISTORY Survey of United States military history from the colonial era to the present.	3 credits
370	EVOLUTION OF AMERICAN BUSINESS An examination of the development of the American business system from the C to the present.	<i>3 credits</i> olonial era
381	HISTORY OF CANADA Survey of Canadian history from the age of the explorers to the present. Special emphasis wi on the history of French-Canadians, on economic development and on Canadian-American re	<i>3 credits</i> il be placed lations.
382	THE VIETNAM WAR An examination and evaluation of all aspects of the war in Vietnam, political, military, diple economic, including its impact domestically then and later.	<i>3 credits</i> omatic and
385	391 WORLD CIVILIZATIONS Courses 385 through 391 are designed to provide a basic knowledge of past human exper an understanding of current events in key areas of the non-Western world. These courses used to meet major requirements in History.	iences and can not be
	385 WORLD CIVILIZATIONS: CHINA Prerequisite: 64 credits.	2 credits
	386 WORLD CIVILIZATIONS: JAPAN Prerequisite: 64 credits.	2 credits
	387 WORLD CIVILIZATIONS: SOUTHEAST ASIA Prerequisite: 64 credits.	2 credits
	388 WORLD CIVILIZATIONS: INDIA Prerequisite: 64 credits.	2 credits
	389 WORLD CIVILIZATIONS: NEAR EAST Prerequisite: 64 credits.	2 credits
	390 WORLD CIVILIZATIONS: AFRICA Prerequisite: 64 credits.	2 credits
	391 WORLD CIVILIZATIONS: LATIN AMERICA Prerequisite: 64 credits.	2 credits
392	INTERNSHIPS IN HISTORY Prerequisites: Junior standing, History or Secondary Education major with His Science concentration, and prior completion of a minimum of 16 credits in H including Humanities in the Western Tradition or World Civilizations. Field exp applied History setting under the supervision of a History Department faculty mer	3 credits tory/Social istory, not berience in nber.
397	INDIVIDUAL STUDY OR RESEARCH IN HISTORY (May be repeated for a total of four credits) Prerequisite: permission. For individue research in history, including special projects, summer study tours or specialized training	1-3 credits al study or ng.
400	/500 WOMEN IN REVOLUTIONARY CHINA Prerequisites: 300, 301 or 385, or permission of instructor. A study of the changes in fives in China during the late imperial (1644-1911) and socialist (1949-1989) periods.	<i>3 credits</i> women's
401	/501 JAPAN AND THE PACIFIC WAR, 1895-1945 The rise of Japanese militarism, Japan's drive to create an empire in East and South 1895-1945, and its role in the Pacific War, 1937-45.	<i>3 credits</i> neast Asia,
404	STUDIES IN ROMAN HISTORY Prerequisite: Completion of six hours of History courses at the 200 or 300 level. Con investigation of selected topics, such as imperialism in middle and late Republic, to Augustus, or the fall of western Empire.	3 credits incentrated the age of
416	/516 MODERN INDIA History of the Indian subcontinent from c. 1500 with emphasis on India society an British imperialism, and the emergence of Indian nationalism.	<i>3 credits</i> nd culture,
424	/524 THE RENAISSANCE	3 credits
	The age of transition from the Middle Ages to modern times (1350-1600). Special en intellectual trends, the development of humanism, and the fine arts.	
425	The age of transition from the Middle Ages to modern times (1350-1600). Special en intellectual trends, the development of humanism, and the fine arts. /525 THE REFORMATION Europe in 16th Century; its religious, cultural, political and diplomatic development, w emphasis on Protestant, Anglican and Catholic reformations.	<i>3 credits</i> <i>ith</i> special

529 EUROPE IN THE FRENCH REVOLUTIONARY ERA, 1789-1815 Development of Revolution; Napoleon's regime and satellites. 3 credits

438/538 NAZI GERMANY 3 credits This course covers the social, economic, and political history of Germany from World War I to 1945 with emphasis on the Third Reich.

439/539 EUROPE IN THE COLD WAR

3 credits Prerequisite: Six hours of 3400 courses at the 200 or 300 level, or permission of the instructor. The political, social, and cultural history of Europe from the end of the Second World War to the Revolutions of 1989.

440/540 TUDOR AND STUART BRITAIN, 1485-1714

An examination of the development of, and increasing links between the British kingdoms in the early modern period, with emphasis on culture, politics, and religion.

443/543 CHURCHILL'S ENGLAND

An examination of the changes that Britain experienced during the life of Winston Churchill, 1874-1965. Emphasis is on cultural, social, and political developments.

450/550 THE AMERICAN COLONIES IN THE 17TH CENTURY, 1607-1713 3 credits Establishment of European colonies in America with special emphasis on English settlements and evolution of the first British Empire to 1713.

451/551 THE 18TH CENTURY COLONIES AND FOUNDING OF THE 3 credits U.S., 1713-1800

Colonial life from the Glorious Revolution to the founding of the United States. Major movements (wars, religious revivals, economic growth) and political controversies

452/552 THE AMERICAN REVOLUTIONARY ERA: POLITICAL, MILITARY, 3 credits AND CONSTITUTIONAL ASPECTS

The struggle for the rights of Englishmen and independence; the impact of war on American society and the creation of republican institutions.

453/553 AGE OF JEFFERSON AND JACKSON, 1800-1850

3 credits The evolution of the republic in its formative stages from Jefferson through Jackson to the Compromise of 1850. Emphasis upon political, social, intellectual and Constitutional developments.

454/554 THE CIVIL WAR AND RECONSTRUCTION, 1850-1877 4 credits Sectionalism, slavery and the causes of the Civil War; wartime activities of the Union and

Confederacy: leading personalities: problems of reconstruction and the new Union. 455/555 THE ORIGINS OF MODERN AMERICA, 1877-1917 3 credits United States from Reconstruction Era to World War I (1877-1920); emphasis on political respons-

es to rise of an industrialized-urbanized society, the populist and progressive movements.

456/556 AMERICA IN WORLD WARS AND DEPRESSION, 1917-1945 3 credits World War I and Versailles; the 1920s, the Great Depression and the New Deal; World War II.

457/557 RECENT AMERICA: THE UNITED STATES SINCE 1945 3 credits Nuclear age, cold war, foreign policy and domestic affairs to present. Social, political, constitutional, diplomatic, cultural and economic changes since 1945.

460/560 UNITED STATES DIPLOMACY TO 1919 3 credits

Establishment of basic policies, diplomacy of expansion and emergence of a world power. 461/561 UNITED STATES DIPLOMACY SINCE 1914 3 credits

Responses of government and public to challenges of war, peace making and power politics.

462/562 U.S. CONSTITUTIONAL HISTORY TO 1870 3 credits This course will examine the creation of the U.S. Constitution and Bill of Rights, as well as constitutional evolution through the Civil War.

463/563 U.S. CONSTITUTIONAL HISTORY SINCE 1870 3 credits This course will examine the evolution of constitutional government, as well as civil liberties and individual rights from the Civil War to the present.

484 AMERICAN ECONOMY TO 1900 3 credits Survey of economic developments from colonial era; including agriculture, commerce, labor. Special emphasis on role of big business and evolution of monetary and fiscal policy.

485/585 AMERICAN ECONOMY SINCE 1900 3 credits Survey of economic developments since 1900; topics include agriculture, business and labor. Special emphasis on role of big business and evolution of monetary and fiscal policy.

466/566 UNITED STATES SOCIAL-CULTURAL HISTORY TO 1877 3 credits Concepts and attitudes considered in their social, cultural framework. Emphasis on population growth, rural and urban life, literature, the arts, family life, slavery and impact of Civil War.

467/567 UNITED STATES SOCIAL-CULTURAL HISTORY SINCE 1877 3 credits Concepts and attitudes; emphasis on business; agrarianism; self-made individuals; progressivism; impact of world wars; social-economic planning; trends in literature and art; social structure and change; black Americans; women's movements.

468 AFRICAN-AMERICAN SOCIAL AND INTELLECTUAL HISTORY

3 credits Examination of black thought and activities reflective of African-American culture, conditions facing black people within America and efforts toward coordinated black activity.

470/570 OHIO HISTORY

Political, social, economic and intellectual history of Ohio, with special emphasis on Ohio's relationship to Old Northwest and to the nation.

471/571 AMERICAN ENVIRONMENTAL HISTORY

Utilization, conservation of natural resources from beginnings of American society to present; combination of economic, technological history of extensive treatment of public policy, environmental issues.

472/572 LATIN AMERICA: ORIGINS OF NATIONALITY

Pre-Columbian civilizations, discovery and conquests; colonialism, struggle for independence and formation of new societies 3 credits

473/573 LATIN AMERICA: THE TWENTIETH CENTURY Social revolution, political ideology and contemporary problems.

476/576 CENTRAL AMERICA AND THE CARIBBEAN

ected aspects of the histories of Central American and Caribbean countries with emphasis on populist and peasant movements, political reform, social revolution, economic and under devel-opment, and relations with the United States.

482/582 WAR AND WESTERN CIVILIZATION

3 credits War and society in Europe, America and beyond from ancient world to present with special emphasis on period since 1740.

484/584 HISTORICAL AGENCY ADMINISTRATION

Organization and administration of non-academic historical agencies (e.g. societies, museums, libraries, etc.). Some field experience in a local historical agency.

3 credits

3 credits

485/585 FUNCTIONS OF HISTORICAL AGENCIES

Prerequisite: 410/510 or permission. The functions and programs of historical agencies. Students will develop a project that involves participating in an agency function.

486 WESTERN SCIENCE TO 1800 3 credits Science in Greek, Roman, Islamic, European societies with special emphasis on the scientific revolution of the 16th and 17th Centuries.

487/587 WESTERN SCIENCE SINCE 1800 3 credits Continuing development of physical, medical, biological sciences in European and American societies. Atomic physics and weapons, evolution, genetics, modern medicine.

492 HONORS PROJECT 1-3 credits (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. An individual research project relevant to history, supervised by a member of the Department of History, culminating in an undergraduate thesis.

493/593 SPECIAL STUDIES IN HISTORY 3 credits Includes experimental and interdisciplinary studies, as well as those subjects that are not listed in this General Bulletin. See departmental office for information on particular offerings.

MATHEMATICS

3450:

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

100 PREPARATORY MATHEMATICS 3 credits Prerequisite: Placement. A review of high school algebra: real numbers, exponents and radicals, factoring, linear and quadratic equations, graphing, systems of equations, and problem solving.For students whose algebraic skills are not sufficient to allow them to enroll in University mathematical science courses. Does not meet General Studies mathematics requirement.

113 COMBINATORICS AND PROBABILITY 1 credit Prerequisite: Completion of 100 with a grade of C- or better or placement test. Permutations, combinations, sample speces, events; simple, compound and conditional probability; Bernoulli trials, expectations and odds.

114 MATRICES 1 credit Prerequisite: Completion of 100 with a grade of C- or better or placement test. Nomenclature, operations, inverse, solution of m linear equations in n variables using elementary row operations.

115 LINEAR PROGRAMMING 1 credit Prerequisite: Completion of 114 with a grade of C- or better or equivalent. Minimizing and/or maximizing a linear function subject to a system of linear inequalities (geometrically and simplex method); introduction to game theory.

127 TRIGONOMETRY 2 credits Prerequisite: Mathematics Placement Test. A standard right triangle approach to trigonometry, including trigonometric and inverse trigonometric functions and graphing, identities, equations, triangle solutions, complex numbers.

135 MATHEMATICS FOR LIBERAL ARTS 3 credits

Prerequisites: Completion of 100 or 2030:153 with a grade of C- or better or placement test. Contemporary applications of mathematics for the non-science major to develop skills in logical thinking and reading technical material. Topics include voting, apportionment, scheduling, patters, networks.

138 MATHEMATICS OF FINANCE

1 credit Prerequisite: Completion of 100 with a grade of C- or better or placement test. Simple and com-pound interest; bank discount, ordinary annuities (present value, amount and rate), amortization, annuities, perpetuities,

140 MATH FOR ELEMENTARY TEACHERS 3 credits

Prerequisites: Completion of 100 with a grade of C- or better or placement test. Enrollment limited to educations majors only. A problem-solving and inquiry-based approach to number systems; bases; operations, properties, relationships, algorithms of Real Numbers. Introduction to number theory, functions, algebra and coordinate geometry.

> 141 ALGEBRA WITH BUSINESS APPLICATIONS 3 credits Prerequisites: Mathematics Placement Test or completion of 100 with a grade of C- or better.

Solving, graphing equations; inequalities; algebraic operations; functions, including exponential, logarithmic; matrix operations; systems of equations; simplex method. For students interested in business. Graphing calculator required.

145 COLLEGE ALGEBRA 4 credits Prerequisite: Mathematics Placement Test or completion of 100 with a grade of C- or better. Real numbers, equations and inequalities, linear and quadratic functions. Exponential and logarithmic functions. Systems of equations, matrices, determinants. Permutations and combinations.

149 PRECALCULUS MATHEMATICS 4 credits Prerequisite: Completion of 145 with a grade of C- or better or placement. Functions, polynomial functions, complex numbers, exponential and logarithmic functions, systems of equations, trigonometric functions, mathematical inductions, sequences, and binomial theorem.

208 INTRODUCTION TO DISCRETE MATHEMATICS 4 credits Prerequisites: Completion of 145 or 149 with a grade of C- or better or placement. A foundation course in discrete mathematics with applications. Topics include sets, number systems, Boolean Algebra, logic, relations, functions, recursion, matrices, induction, graphs, and trees.

210 CALCULUS WITH BUSINESS APPLICATIONS 3 credits Prerequisites: Mathematics Placement Test or completion of 141 or 145 with a grade of C- or better. Review of functions, derivatives of functions, extrema and concavity, optimization, logarithmic and exponential functions, extrema for multivariate functions. Graphing calculator required. For business majors only.

- 215 CONCEPTS OF CALCULUS I 4 credits Prerequisite: Completion of 145 or 149 with a grade of C- or better or placement. Functions; limits and continuity; differentiation and applications of differentiation; trigonometric, logarithmic, and exponential functions; integration and applications of integration; math of finance.
- 218 CONCEPTS OF CALCULUS II 4 credits Prerequisite: Completion of 215 with a grade of C- or better. Trigonometric functions, calculus of trigonometric functions, integration techniques L'Hopital's Rule, improper integrals, multiple integrals, mathematical induction, difference equations, series,
- ANALYTIC GEOMETRY-CALCULUS I 221 4 credits Prerequisite: Completion of 149 or equivalent with a grade of C- or better or placement. Analytic geometry, limits, continuity, derivatives, tangent and normal lines, extrema of functions, Rolle's theorem, mean value theorem, related rates, antiderivatives, definite integrals, areas, volumes, arc length.
- 222 ANALYTIC GEOMETRY-CALCULUS II 4 credits Prerequisite: Completion of 221 with a grade of C- or better. Derivatives of exponential, logarith-mic trigonometric, inverse trigonometric, hyperbolic and inverse hyperbolic functions; methods of integration, sequences, series; moments, centroids, indeterminate forms, polar coordinates.

223 ANALYTIC GEOMETRY-CALCULUS III Prerequisite: Completion of 222 with a grade of C- or better. Vector algebra, cylindrical, spherical

coordinates, vector-valued functions, curvature; functions of several variables, limit, continuity, partial derivatives, differentials, directional derivatives, maxima and minima, multiple integrals, Divergence Theorem.

MATHEMATICS FOR KINDERGARTEN THROUGH 9TH TEACHERS 3 credits Prerequisite: Completion of 140 with a grade of C- or better. A problem-solving and inquiry-based approach to fundamentals of Euclidean Geometry and elementary data analysis via handson activities and the use of technology

289 SELECTED TOPICS IN MATHEMATICS 1-3 credits Prerequisite: permission. Selected topics of interest in mathematics.

307 FUNDAMENTALS OF ADVANCED MATHEMATICS 3 credits Prerequisite: Completion of 222 with a grade of C- or better. Logic, solving problems, and doing

proofs in mathematics. Sets, extended set operations, and indexed family sets, induction. Binary relations. Functions, cardinality. Introductory concepts of algebra and analysis.

312 LINEAR ALGEBRA

3 credits Prerequisite: Completion of 223 with a grade of C- or better or permission of instructor. Study of vector spaces, linear transformations, matrices, determinants, inner products, the eigenvalue problem, quadratic forms and canonical forms.

335 INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS 3 credits

Prerequisite: Completion of 223 with a grade of C- or better or permission of instructor. Basic techniques for solving ODEs and systems of ODEs. Analysis of models involving differential equations of first order and simple equations of second order.

401/501 HISTORY OF MATHEMATICS

Prerequisite: Completion of 222 with a grade of C- or better. Origin and development of mathematical ideas.

410/510 ADVANCED LINEAR ALGEBRA

3 credits Prerequisite: Completion of 312 with a grade of C- or better. Study of vector spaces, linear transformation, canonical and quadratic forms, inner product spaces.

411/511 ABSTRACT ALGEBRA I

Prerequisite: Completion of 307 with a grade of C- or better or permission of instructor. Study of groups, rings, fields, integral domains.

412/512 ABSTRACT ALGEBRA II

Prerequisite: Completion of 411/511 with a grade of C- or better or permission of instructor. Study of groups, rings, fields, integral domains, vector spaces, field extensions, Galois theory.

413/513 THEORY OF NUMBERS

Prerequisite: Completion of 222 with a grade of C- or better or permission. Euclidean algorithm, unique factorization theorem, congruences, primitive roots, indices, quadratic residues, numbertheoretic functions, Gaussian integers and continued fractions.

414/514 VECTOR ANALYSIS

3 credits Prerequisite: Completion of 223 with a grade of C- or better. Vector algebra, calculus of scalarvector, vector-scalar, vector-vector functions; integral theorems; orthogonal and general curvilinear. Application of geometry and engineering.

415/515 COMBINATORICS AND GRAPH THEORY

3 credits Prerequisite: Completion of 222 with a grade of C- or better or permission. Introduction to basic ideas and techniques of mathematical counting; properties of structure of systems.

420/520 MATHEMATICAL TECHNOLOGY AND COMMUNICATION

3 credits Prerequisites: Completion of 222 and 312 with grades of C- or better, or permission. Graphical, numerical and algebraic computation with applications using a variety of mathematical hardware and software: symbolic manipulators, dynamic geometry software, programs, scripts and web-

421,2/521,2 ADVANCED CALCULUS I AND II

3 credits each Sequential. Prerequisite: Completion of 223 with a grade of C- or better; 307 is highly recommended. Real number system, sequences, series, set theory, continuity, differentiation, integration, partial derivatives, multiple integration, maxima and minima, convergence and uniform convergence, power series, improper integrals, transformations, line and surface integrals.

425/525 COMPLEX VARIABLES

3 credits Prerequisite: Completion of 223 with a grade of C- or better. Complex variables; elementary functions, differentiation and analytic functions; integration and Cauchy's theorem; power series and Laurent series; residue theorem; applications such as conformal mappings, inversion of integral transform.

427/527APPLIED NUMERICAL METHODS I

3 credits Prerequisites: Completion of 222 and 3460:209 with grades of C- or better or permission. Numerical methods in polynomial interpolation, rootfinding, numerical integration, and numerical linear algebra

- 428/528 APPLIED NUMERICAL METHODS II 3 credits Prerequisites: Completion of 235 or 335 and 427 with grades of C- or better or permission. Numerical methods in the solution of ordinary and partial differential equations. Numerical differentiation, Runge-Kutta methods, and iterative methods for ODEs, finite differences for PDEs.
- 430/530 NUMERICAL SOLUTIONS FOR PARTIAL DIFFERENTIAL EQUATIONS 3 credits Prerequisite: Completion of 428/528 with a grade of C or better or equivalent. For advanced undergraduate and graduate students. The study of finite difference and finite element methods for partial differential equations consistency, stability, convergence and computer implementation.
- 432/532 PARTIAL DIFFERENTIAL EQUATIONS 4 credits Prerequisite: Completion of 235 or 335 with a grade of C- or better. The classical initial value and boundary value problems of mathematical physics developed and solved using Fourier series and integral transforms

435/535 SYSTEMS OF ORDINARY DIFFERENTIAL EQUATIONS

3 credits Prerequisites: Completion of 235 or 335 and either 312 or 428 with grades of C- or better or permission. Analysis, solution of systems of equations, linear, nonlinear. Topics: stability theory, perturbation methods, asymptotic methods, applications from physical, social sciences.

438/538 MATHEMATICAL MODELS

4 credits

3 credits

3 credits

3 credits

3 credits

Prerequisite: Completion of 235 or 335 with a grade of C- or better, and a six-hour sequence in an approved applied area, or permission. Formulation and analysis of mathematical models in social and physical sciences. Analysis of deterministic and stochastic models. Topics may include stochastic processes, linear programming, graph theory, theory of measurement.

3 credits

3 credits

438/538 ADVANCED ENGINEERING MATHEMATICS (3 credits Prerequisites: Completion of 235 or 335 and 312 with grades of C- or better or permission. Matrices, eigenvalue problems, systems of ODEs, vector analysis, complex variables.

439/539 ADVANCED ENGINEERING MATHEMATICS II 3 credits Prerequisites: Completion of 235 or 335 and 312 with grades of C- or better or permission. Special functions, Fourier series and transforms, PDEs.

441/541 CONCEPTS IN GEOMETRY

4 credits Prerequisite: Completion of 222 with a grade of C- or better or permission of instructor; 307 is recommended. Axiomatic treatment of both Euclidean and non-Euclidean geometries. Other concepts included are finite geometry, transformations, constructions and inversions.

445/545 INTRODUCTION TO TOPOLOGY

Prerequisite: Completion of 307 with a grade of C- or better or permission of instructor. Introduction to topological spaces and topologies, mappings, cardinality, homeomorphisms, connected spaces, metric spaces.

489/589 TOPICS IN MATHEMATICS 1-3 credits (May be repeated for a total of six credits) Prerequisite; permission of instructor. Selected topics in mathematics and applied mathematics at an advanced level.

491/591 WORKSHOP IN MATHEMATICS

1-3 credits (May be repeated) Group studies of special topics in mathematics and applied mathematics. May not be used to meet undergraduate or graduate major requirements in mathematics. May be used for elective credit only.

INDIVIDUAL READING

1-2 credits Prerequisites: senior standing and permission. Mathematics or applied mathematics majors only. Directed studies designed as an introduction to research problems, under guidance of selected faculty member.

SENIOR HONORS PROJECT

1-3 credits Prerequisite: 489 (honors). Directed study for senior student in the Honors Program who has completed 489 (honors). An introduction to research problems in mathematics and applied mathematics under the guidance of selected faculty.

COMPUTER SCIENCE

3460:

- 125 DESCRIPTIVE COMPUTER SCIENCE 2 credits Computer literacy: terminology; methods, media for data representation, storage; elements of a computing system; data organization.
- 126 INTRODUCTION TO VISUAL BASIC PROGRAMMING 3 credits Prerequisite: Completion of 3450:100 with a grade of C- or better or placement. Windows GUI and Microsoft's Visual BASIC programming environment. Design of user interfaces, event-driven programming, basic control structures, simple variables, arrays, and sequential files.
- 201-8 INTRODUCTION TO PROGRAMMING LANGUAGES 3 credits each Introduction to syntax and semantics of programming languages: assignment statement and arithmetic, control statements and loops, input/output, subprograms.
- 201 INTRODUCTION TO FORTRAN PROGRAMMING 3 credits Prerequisites: Completion of 3450:145 or 149 with a grade of C- or better or equivalent. Does not meet computer science major, minor and/or certificate requirements.
- INTRODUCTION TO C PROGRAMIMING 3 credits Prerequisites: programming experience and completion of 3450:145 or 149 with a grade of C- or better. Provides the student with additional programming skills allowing access to assembly or high-level macros
- 208 INTRODUCTION TO C++ PROGRAMMING 3 credits Prerequisites: knowledge of C. Introduction to class types and data abstraction. In addition, memory management and dynamic memory allocation will be discussed.
- INTRODUCTION TO COMPUTER SCIENCE 4 credits Prerequisite: Completion of 3450:145, 149 with a grade of C- or better or equivalent. An introduc-tion to problem-solving methods and algorithm development. Programming in a high-level language including how to design, code, debug and document programs using techniques of good programming style.

- 210 DATA STRUCTURES AND ALGORITHMS I 4 credits Prerequisites: Completion of 3450:208 and either 209 or 4450:208 with grades of C- or better Dynamic memory allocation methods, elementary data structures, internal representations, and associated algorithms. Topics include lists, stacks, queues, trees, and sorting methods.
- 289 SELECTED TOPICS IN COMPUTER SCIENCE 1-3 credits Prerequisite: permission. Selected topics of interest in computer science.

302 PROGRAMMING APPLICATIONS WITH COBOL 3 credits Prerequisite: Completion of 210 with a grade of C- or better, Applications of COBOL_UCL and file manipulation; intended to introduce business data processing techniques to the business option computer science major. Does not meet major requirements for system option computer science students.

306 ASSEMBLY LANGUAGE PROGRAMMING 4 credits Prerequisite: Completion of 210 with a grade of C- or better. Basic computer organization, digital logic, and data representation. Programming in assembly language on a typical digital computer.

APPLIED SYSTEMS PROGRAMMING 307 3 credits Prerequisite: Completion of 306 with a grade of C- or better. Object-Oriented design and imple-mentation of an assembler. Study of assemblers, linkers, loaders, and other system software.

316 DATA STRUCTURES AND ALGORITHMS I 3 credits Prerequisites: Completion of 210 and 3450:221 or 3450:215 with grades of C- or better. A continuation of topics in 210. Topics include: graphs and graph algorithms, external sorting, hashing, advanced tree and file structures

330 SURVEY OF PROGRAMMING LANGUAGES Prerequisite: Completion of 210 with a grade of C- or better or programming experience in a high-level block-structured procedural programming language. An introduction to programming in C and LISP for experienced programmers. (Not to be used to satisfy minor or certificate requirements in the Department of Mathematics and Computer Science.)

- 335 JAVA 3 credits Prerequisites: Completion of 206, 207, 209 or 406 with a grade of C- or better. Introduction to the Java language, environment, and philosophy. Topics include stream I/O, threads, exceptions, networking, applets and applications, utility classes, event-driven programming, and GUI topics.
- 389 INTERMEDIATE TOPICS IN COMPUTER SCIENCE 1-3 credits Prerequisite: permission of instructor. Selected topics of interest in computer science at an intermediate level

401/501 FUNDAMENTALS OF DATA STRUCTURES 3 credits Prerequisites: programming experience in C. Basic data structures and algorithms, sorting and search algorithms. Data abstraction and algorithm analysis. (Not an approved major, minor, or certificate elective in computer science.)

406/506 INTRODUCTION TO C AND UNIX 3 credits Prerequisite: programming experience. Syntax of C with flow structures, pointers, and com-mand line concepts. For UNIX shell scripts, UNIX file structure, system calls and interprocess communication protocols. (Not an approved mathematics and computer science major, minor, or certificate elective.)

406/508 WINDOWS PROGRAMMING

Prerequisites: Completion of 208 or 210 or 406 or 506 with a grade of C- or better or permission. Windows operating systems, integrated development environment, event-driven programming, graphical user interface design, object libraries, component object model, object linking, embedding, client-server objects.

418/518 INTRODUCTION TO DISCRETE STRUCTURES

Prerequisite: Completion of 210 with a grade of C- or better or permission. Introduction to a number of structures in algebra of particular use to student in computer science. Topics include algorithms and flow chart language, graphs and digraphs, trees, lattices codes.

420/520 STRUCTURED PROGRAMMING

3 credits Prerequisite: Completion of 316 and 418 with grades of C- or better. Techniques of block programming using a structured programming language, program readability, program verification and program design.

421/521 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING 3 credits Prerequisite: Completion of 316 with a grade of C- or better. Object-oriented design, analysis, and programming using different development models. Comparison with other programming paradigms.

426/526 OPERATING SYSTEMS

3 credits Prerequisites: Completion of 306 and 316, or 501, or equivalents with grades of C- or better. Introduction to various types of operating systems: batch processing systems, multiprogram-ming systems and interacting processes: storage management; process and resource control; deadlock problem. Course is independent of any particular operating system.

428/528 UNIX SYSTEM PROGRAMMING

Prerequisite: Completion of 316 with a grade of C- or better and knowledge of C. An overview of the UNIX operating system. Shell programming. Process management, processor management, storage management, scheduling algorithms, resource protection, and system programming.

430/530 THEORY OF PROGRAMMING LANGUAGES

Prerequisite: Completion of 316 with a grade of C- or better. Advanced concepts underlying programming languages and their applications, formal definitions of programming languages, Backus Normal Form, semantics. Alternative programming paradigms including functional programming.

435/535 ANALYSIS OF ALGORITHMS

Prerequisites: Completion of 316 and 418 with grades of C- or better. Design and analysis of efficient algorithms for random access machines; derivation of pattern classification algorithms

440/540 COMPILER DESIGN

Prerequisites: Completion of 307 and 316 with grades of C- or better. Techniques used in writing and modifying compilers including translation, loading, execution, symbol tables and storage allocation; compilation of simple expressions and statements. Organization of a compiler for handing lexical scan, syntax scan, object code generation, error diagnostics and code optimization. Use of compiler writing languages and boot-strapping. The course requires a project involving compiler writing.

- 455/555 DATA COMMUNICATION AND COMPUTER NETWORKS 3 credits Prerequisites: Completion of 316 or 401/501 with a grade of C- or better. ISO-OSI, TCP/IP, SNA data switching, protocols, flow and error control, routing, topology, Network trends, network taxonomies, and socket-based programming.
- 457/557 COMPUTER GRAPHICS 3 credits Prerequisite: Completion of 316 with a grade of C- or better and knowledge of C. Topics in vector graphics, scan line graphics, representations and languages for graphics.
- 460/560 ARTIFICIAL INTELLIGENCE AND HEURISTIC PROGRAMMING 3 credits Prerequisite: Completion of 316 with a grade of C- or better. Study of various programs which have displayed some intelligent behavior. Exploration of level at which computers can display intelligence.

465/565 COMPUTER ORGANIZATION 3 credits Prerequisite: Completion of 306 or 210 and 4450:330 with grades of C- or better. An introduction to the hardware organization of the computer at the register, processor and systems level. An in-depth study of the architecture of a particular computer systems family.

- 467/567 MICROPROCESSOR PROGRAMMING AND INTERFACING 3 credits Prerequisites: Completion of 306 and 316 with grades of C- or better. Detailed study of a particular microprocessor architecture and instruction set. Standard device interface components. Real time programming concepts.
- 470/570 AUTOMATA, COMPUTABILITY AND FORMAL LANGUAGES 3 credits Prerequisite: Completion of 418 with a grade of C- or better. Presentation of theory of formal lan-guages and their relation to automata. Topics include description of languages; regular contextfree and context-sensitive grammars; finite, pushdown and linear-bounded automata; turing machines; closure properties; computational complexity, stack automata and decidability

475/575 DATABASE MANAGEMENT 3 credits Prerequisite: Completion of 316 with a grade of C- or better. Fundamentals of database organization, data manipulations and representation, data integrity, privacy.

477/577 INTRODUCTION TO PARALLEL PROCESSING 3 credits Prerequisites: Completion of 316 with a grade of C- or better and knowledge of C. Commercial processors: past and present. Parallel languages, models of parallel computation, parallel algorithm design and performance evaluation. Parallel paradigms with relation to real world applications.

- 480/580 INTRODUCTION TO SOFTWARE ENGINEERING AND FORMAL METHODS 3 credits Prerequisite: Completion of 316 with a grade of C- or better. Introduction to formal software specification and validation. Introduction of methodologies and tools of design, development and validation, and maintenance.
- 489/589 TOPICS IN COMPUTER SCIENCE
 - (May be repeated for a total of six credits) Prerequisite: permission of instructor. Selected topics in computer science at an advanced level.

1-3 credits

1-3 credits

490 SENIOR SEMINAR IN COMPUTER SCIENCE 3 credits Prerequisite: Must have completed at least 30 hours of 3460 (computer science) courses. Professional software development, surviving "Mission Impossible" projects, computer ethics, intellectual property rights (patents and copyrights), and other current topics.

- 491/591 WORKSHOP IN COMPUTER SCIENCE 1-3 credits Group studies of special topics in computer science. May not be used to meet anduate or undergraduate requirements in mathematics, statistics or computer science.
- 497/597 INDIVIDUAL READING IN COMPUTER SCIENCE 1-3 credits (May be repeated) Prerequisite: permission. Computer science major only. Directed studies designed as introduction to research problems, under guidance of designated faculty member.
- 498 SENIOR HONORS PROJECT 1-3 credits Prerequisite: 489 (honors). Directed study for senior student in the Honors Program who has completed 3460:489. An introduction to research problems in the computer science under the quidance of selected faculty

STATISTICS 3470:

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

- 260 BASIC STATISTICS 3 credits Prerequisite: Mathematics Placement Test or 3450:100. Applied approach to data description and statistical inference (hypothesis testing, estimation). Analysis of ratios, rates, and proportions. Computer applications. Laboratory.
- INTRODUCTORY STATISTICS | Prerequisite: Mathematics Placement Test. Descriptive statistics, tabular and graphical data dis-plays; probability, probability distributions. Introduction to statistical inference (hypothesis testng, estimation); one-sample parametric and nonparametric methods. Computer applications.
- 262 INTRODUCTORY STATISTICS II 2 credits Prerequisite: 261 or equivalent. Parametric and nonparametric methods of statistical inference for paired data and two-sample problems; one-way ANOVA, simple linear regression and correlation. Computer applications.

289 SELECTED TOPICS IN STATISTICS Prerequisite: Permission. Selected topics of interest in statistics.

450/550 PROBABILITY

3 credits Prerequisite: 3450:221. Introduction to probability, random variables and probability distributions, expected value, sums of random variables, Markov processes.

451.2/551.2 THEORETICAL STATISTICS | AND || 3 credits each Sequential. Prerequisite: 3450:223. Elementary combinatorial probability theory, probability distributions, mathematical expectation, functions of random variables, sampling distributions, point and interval estimation, tests of hypotheses, regression and correlation, introduction to experimental designs.

2 credits

460/560 STATISTICAL METHODS

Application of statistical methods to the social sciences including descriptive statistics, probability distributions, statistical inference (parametric, nonparametric), categorical data analysis, linear regression, correlation, computer applications. May not be used to meet Mathematical Sciences degree requirements

461/561 APPLIED STATISTICS |

Prerequisite: 3450:222 or 216 or equivalent. Applications of statistical theory to natural and physical sciences and engineering, including probability distributions, interval estimation, hypotheses testing (parametric and nonparametric), and simple linear regression and correlation.

462/562 APPLIED STATISTICS

Prerequisite: 461/561 or equivalent. Applications of the techniques of regression and multifactor analysis of variance.

465/565 DESIGN OF SAMPLE SURVEYS

Prerequisite: 461/561 or equivalent. Design and analysis of frequently used sample survey techniques. 469/569 RELIABILITY MODELS

Prerequisite: 461/561. Selected topics in reliability modeling including parametric and nonpar-metric models, competing modes of failure, censored data and accelerated life models.

471/671 ACTUARIAL SCIENCE |

Prerequisite: 451/551 or 461/561 or equivalent. Study of various statistical, financial, and mathe-matical calculations used to determine insurance premiums related to contingent risks based on individual risk model frameworks.

472/572 ACTUARIAL SCIENCE B

Prerequisite: 471/571. Continuation of Actuarial Science I. Study of multiple life functions, multiple decrement models, valuation theory for pension plans, insurance models including expens-es, nonforfeiture benefits and dividends.

475/575 FOUNDATIONS OF STATISTICAL QUALITY CONTROL

Prerequisite: 461/561 or equivalent. Course provides a solid foundation in the theory and applications of statistical techniques widely used in industry.

480/580 STATISTICAL COMPUTER APPLICATIONS

Prerequisites: 3450:222 and one semester course in statistics or permission. Translation of statistical operations into computer languages, iterative procedures, generating data, Monte Carlo techniques, use of statistical packages.

489/589 TOPICS IN STATISTICS

(May be repeated for a total of six credits) Prerequisite: permission. Selected topics in advanced statistics, including quality control, reliability, sampling techniques, decision theory, advanced inference, stochastic processes and others.

491/591 WORKSHOP IN STATISTICS

(May be repeated with change of topic) Group studies of special topics in statistics. May not be used to meet undergraduate or graduate major requirements in mathematics and statistics. May be used for elective credit only

495/595 STATISTICAL CONSULTING

Prerequisite: 480/580 or permission. Students will be assigned to work with an instructor on cur-rent projects in the Center for Statistical Consulting. May be repeated for a total of 4 credits; however, only 2 credits will count toward major requirements. Does not count for elective credit for Mathematical Sciences majors.

497 INDIVIDUAL READING

(May be repeated for a total of four credits) Prerequisites: senior standing and permission. Directed studies in statistics designed as introduction to research problems under guidance of selected faculty member.

498 SENIOR HONORS PROJECT

Prerequisite: 489 (honors). Directed study for senior student in the University Honors Program who has completed 3450:489 (honors). An introduction to research problems in the mathematical sciences under the guidance of selected faculty.

MODERN LANGUAGES

3500:

PLACEMENT PROCEDURES FOR NEW STUDENT

In lieu of taking the placement test, a student with two years or less of a foreign language in high school may register in 101; a student with three years in high school and average grades should register for 102; a student with three years and above average grades (B+ or A) should register for 201; a student with four years in high school should register for 202. For placement in third-year courses or higher, department permission is required.

101,2 BEGINNING MODERN LANGUAGE I AND I

Sequential. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.

- 201.2 INTERMEDIATE MODERN LANGUAGE | AND II 3 credits each Sequential. Prerequisite: 102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.
- 320 FRENCH CANADIAN LITERATURE IN TRANSLATION 3 credits Perequisite: French major and minors only; 3520:306. Reading and discussion of English trans-lations of French Canadian Literature. French majors and minors must read original French version and do all writing in French.
- 422 MODERN LANGUAGES: SPECIAL TOPICS IN ADVANCED LANGUAGE SKILLS, OR CULTURE, OR LITERATURE 1-4 credits

Prerequisite: Modern Languages 202 or equivalent. Development of specialized language skills or reading of significant works of literature or culture not studied in other courses.

490/590 WORKSHOP

4 credits

4 credits

4 credits

3 credits

3 credits

3 credits

3 credits

1-3 credits

1-3 credits

1-3 credits

1-3 credits

4 credits each

(May be repeated) Group studies of special topics in modern languages. 497 INDIVIDUAL READINGS IN MODERN LANGUAGES 1-3 credits

- Prerequisites: 202 and permission of department chair
- 498 SENIOR HONORS PROJECT IN MODERN LANGUAGES 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission. Open only to language major enrolled in Honors Program. Independent study leading to completion of senior honors thesis or other original work.

FRENCH

3520:

- 101,2 BEGINNING FRENCH I AND II 4 credits each Sequential. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.
- 3 credits each 201.2 INTERMEDIATE FRENCH | AND II Sequential. Prerequisite: 102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.
- 301,2 FRENCH COMPOSITION AND CONVERSATION 3 credits each Sequential. Prerequisite: 202 or equivalent. Free composition, special attention to vocabulary and idioms, development of oral expression and conversational ability. Prerequisite for 302 is 301 or equivalent.
- 305,6 INTRODUCTION TO FRENCH LITERATURE 3 credits each Prerequisite: 202 or equivalent. Survey of French literature from its origins to present, with lec-tures, reading and class discussion of representative works.
- 309.10 FRENCH CULTURE AND CIVILIZATION 3 credits each Prerequisite: 202 or equivalent. Audio-visual presentation with class discussions of French cultural heritage from its origins to present. Conducted in French.
- 311 CONTEMPORARY FRENCH SOCIETY 3 credits Prerequisite: 202 or equivalent. A study of contemporary French society, including customs and political and social issues. Conducted in French. Counts toward Culture and Civilization requirement for major.
- 312 INDIVIDUAL SUMMER STUDY ABROAD 2 credits Prerequisites: 202 or equivalent and permission of instructor.
- 313 FRENCH CIVILIZATION AS SEEN IN THE MOVIES 3 credits Prerequisites: 302 (for majors). Study and discussion of various aspects of French culture and civilization as characterized in movies. Conducted in French (films, papers, and discussion). Prerequisite is 302 if course is to count toward French major. Non-majors may choose to write papers in English.
- 315 FRENCH PHONETICS 3 credits Prerequisite or corequisite: 202 or equivalent. Intensive drill in pronunciation with correction and improvement of student's accent, emphasis on articulation, intonation and rhythm.
- 350 THEMES IN FRENCH LITERATURE IN TRANSLATION 3 credits Prerequisite: 3400:210. (May not be taken for credit toward the French major) Readings, discussion of novels and plays relating to selected themes of French literature. Texts and discussion in English.
- 351 TRANSLATION: FRENCH 3 credits Prerequisite: 202 or equivalent. Study of translation techniques, both French to English and English to French. Emphasis on stylistics and interpretation of idioms.
- 352 TRANSLATION: BUSINESS FRENCH 3 credits Prerequisite: 351 or equivalent. Application of translation techniques with particular stress on business styles, formats, and vocabulary. Especially recommended for students interested in international business.
- 402/502 ADVANCED FRENCH GRAMMAR 3 credits Prerequisite: 302 or equivalent. Advanced study of normative French grammar with emphasis on syntax, morphology, grammatical structure and phonetic principles.
- 403.4 ADVANCED FRENCH COMPOSITION AND CONVERSATION 3 credits each Prerequisite: 302 or equivalent. Thorough analysis of syntax, morphology, phonetic principles and grammatical structure.
- 422 FRENCH: SPECIAL TOPICS IN ADVANCED 1-4 credits LANGUAGE SKILLS, OR CULTURE, OR LITERATURE

Prerequisite: 202 or equivalent. (May be repeated) Development of specialized language skills or reading of significant works of literature or culture not studied in other courses.

- 427/527 20TH CENTURY FRENCH LITERATURE 4 credits Prerequisite: 305 or 306 or equivalent. Reading and discussion of the most representative works of period. Conducted in French.
- 450/550 EXPLICATION DE TEXTES 3 credits Prerequisite: 302 or equivalent. Study of traditional French method of literary analysis based on passages of representative authors from selected periods of French literary history.
- 471/571 FRENCH LANGUAGE READING PROFICIENCY 4 credits Designed to develop proficiency in reading comprehension. Prepares students for graduate reading examination. Does not count toward French major.
- 497,8 INDIVIDUAL READING IN FRENCH 1-3 credits each rerequisite: 202 and permission of department chair.

GERMAN

3530:

101,2 BEGINNING GERMAN I AND II 4 credits each Sequential. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.

- 201,2 INTERMEDIATE GERMAN I AND II 3 credits each Sequential. Prerequisite: 102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.
- 301 GERMAN CONVERSATION AND COMPOSITION 3 credits each Prerequisite: 202 or equivalent. Advanced composition using German models, special attention to words and idioms, development of oral expression and conversational ability.
- 302 GERMAN CONVERSATION AND COMPOSITION: SPECIAL TOPICS 3 credits each Prerequisite: 202 or equivalent or permission of instructor. May be repeated for credit. Special attention to development of oral expression and conversational ability.
- 305,6 INTRODUCTION TO GERMAN LITERATURE 3 credits each Prerequisite: 202 or equivalent. Introduction to study of German literature. Reading and class discussion of representative works. Conducted in German.
- 310 SEX, VIOLENCE, AND TERROR IN GERMAN FAIRY TALES 3 credits Exploration of historical context of German fairy tales and interpretation plus modern significance of texts according to Jungian archetypal psychology. Readings and discussions in English.

351,2 TRANSLATION: GERMAN 3 credits each

- 403,4 ADVANCED GERMAN CONVERSATION AND COMPOSITION 3 credits each Prerequisite: 302 or equivalent. Thorough analysis of syntax, morphology, phonetic principles and grammatical structure.
- 406,7 GERMAN CULTURE AND CIVILIZATION 3 credits each Prerequisite: 302 or 306 or equivalent. Particular emphasis on customs, traditions, literary trends and artistic tendencies that constitute German's contribution to Western civilization.
- 422
 GERMAN: SPECIAL TOPICS IN ADVANCED
 1-4 credits

 LANGUAGE SKILLS, OR CULTURE, OR LITERATURE
 Prerequisite: 202 or equivalent. (May be repeated) Development of specialized language skills or reading of significant works of literature or culture not studied in other courses.

 471/571
 GERMAN LANGUAGE READING PROFICIENCY
 4 credits

 Designed to develop proficiency in reading comprehension.
 4
- 497,8 INDIVIDUAL READING IN GERMAN 1-3 credits each Prerequisite: 202 and permission of department chair.

ITALIAN

3550:

- 101,2 BEGINNING ITALIAN I AND II 4 credits each Sequential. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.
- 201,2 INTERMEDIATE ITALIAN I AND II 3 credits each Sequential. Prerequisite: 102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.
- 301,2 ITALIAN COMPOSITION AND CONVERSATION 3 credits each Prerequisite: 202 or equivalent. Italian composition using Italian models, special attention to words and idioms and development of oral expression and conversational ability.
- 305,6 INTRODUCTION TO LITERATURE 3 credits each Prerequisite: 202 or equivalent. Introduction to study of Italian literature. Reading and class discussion in Italian of representative works.
- 422 ITALIAN: SPECIAL TOPICS IN ADVANCED 1-4 credits LANGUAGE SKILLS, OR CULTURE, OR LITERATURE Prerequisite: 202 or equivalent. (May be repeated) Development of specialized language skills or reading of significant works of literature or culture not studied in other courses.
- 497
 INDIVIDUAL READING IN ITALIAN
 1-3 credits

 Prerequisite: 202 and permission of the department chair.
 1-3

RUSSIAN

3570:

101,2 BEGINNING RUSSIAN I AND II 4 credits each Sequential. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.

201,2 INTERMEDIATE RUSSIAN I AND II 3 credits each Sequential. Prerequisite: 102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.

- 301,2 RUSSIAN COMPOSITION AND CONVERSATION 3 credits each Prerequisite: 202 or equivalent. Advanced composition using Russian models, special attention to words and idioms; development of oral expression and conversational ability.
- 422
 RUSSIAN: SPECIAL TOPICS IN ADVANCED
 1-4 credits

 LANGUAGE SKILLS, OR CULTURE, OR LITERATURE
 Prerequisite: 202 or equivalent. (May be repeated) Development of specialized language skills or reading of significant works of literature or culture not studied in other courses.
- 497,8 INDIVIDUAL READING IN RUSSIAN
 1-3 credits each

 Prerequisite: 202 and permission of the department chair.
 1-3 credits each

SPANISH

3580:

- 101,2 BEGINNING SPANISH I AND II.
 4 credits each

 Sequential. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.
 201,2 INTERMEDIATE SPANISH I AND II

 201,2 INTERMEDIATE SPANISH I AND II
 3 credits each
- Sequential. Prerequisite: 102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.
- 301 SPANISH CONVERSATION 3 credits Prerequisite: 202 or equivalent. Development of oral expression, listening comprehension and conversational ability.
- 302 SPANISH COMPOSITION 3 credits Prerequisite: 202 or equivalent. Development of writing skills through intensive practice and study of written expression in Spanish. Conducted in Spanish.
- 303 SPANISH GRAMMAR Prerequisite: 202 or equivalent. Post-intermediate review and study of grammar and basic principles of grammatical analysis. Conducted in Spanish.
- 311 SPANISH/SPANISH-AMERICAN CULTURAL EXPERIENCE 1-2 credits Prerequisite: permission. Student's residence and/or independent study in Spanish-speaking country which results in demonstrable assimilation of country's culture may earn a maximum of two credits.
- 340 INTRODUCTION TO SPANISH AND SPANISH-AMERICAN LITERATURE 3 credits Prerequisite: 301 or 302 or instructor's permission. Reading and discussion of Spanish and Spanish-American literature of all genres. Introduction to the fundamentals of literary criticism and literary movements. Conducted in Spanish.
- 350 THE LITERATURE OF SPANISH-AMERICA IN TRANSLATION 3 credits Prerequisities: 3400:210. (May not be taken for credit toward the Spanish major or minor.) Reading, discussion of novels, short stories of major Spanish-American authors. Texts and discussion in English.
- 351 SPANISH FOR PROFESSIONALS: BUSINESS 3 credits Prerequisites: 302 or instructor's permission. Study of business terminology as well as cultural factors affecting the conduct of business with Hispanic nations and populations. Conducted in Spanish.
- 401 ADVANCED CONVERSATION 3 credits each Prerequisites: 301 or equivalent. Development of speaking skills at a level beyond that achieved in 301. Conducted in Spanish.
- 402 ADVANCED COMPOSITION 3 credits each Prerequisites: 302 or equivalent. Development of writing skills at a level beyond that achieved in 302. Conducted in Spanish.
- 403 ADVANCED GRAMMAR 3 credits Prerequisite: 303 or equivalent. Advanced study of Spanish syntax and grammatical analysis.
- 405/505 SPANISH LINGUISTICS: PHONOLOGY 4 credits Prerequisite: 302 or instructor's permission. Descriptive study of Spanish phonetics and morphology, comparison of Spanish and English sounds, historical aspects, regional accents and sociolinguistic variation. Conducted in Spanish.
- 406/506 SPANISH LINGUISTICS: SYNTAX 4 credits Prerequisite: 302 or instructor's permission. Descriptive study of Spanish syntax; introduction to theories of grammar; overview of Spanish semantics and pragmatics. Conducted in Spanish.
- 407 SURVEY OF HISPANIC LITERATURE: SPAIN 4 credits Prerequisites: 301 or 302 or instructor's permission. Study of the most representative works and literary movements in Spain from the Middle Ages to the present. Conducted in Spanish.
- 408 SURVEY OF HISPANIC LITERATURE: SPANISH AMERICA 4 credits Prerequisites: 301 or 302 or or instructor's permission. Study of the most representative works and literary movements in Spanish-America from the Discovery to the present. Conducted in Spanish.

408/509 CULTURAL MANIFESTATIONS IN MEDIEVAL AND RENAISSANCE SPAIN 4 credits Prerequisite: 407 or 408 or permission. Comparative study of representative artistic and literary works of the Medieval and Renaissance periods. Conducted in Spanish.

- 411/511 SPAIN DURING THE BAROQUE PERIOD 4 credits Prerequisite: 407 or 408 or instructor's permission. A comparative study of the different cultural manifestations during the 17th century in Spain. Conducted in Spanish.
- 412/512 CERVANTES: DON QUIJOTE 4 credits Prerequisite: 407 or 408 or instructor's permission. Reading and analysis of Don Quijote as the first modern novel in the historical context of Reneissance and Baroque esthetics. Conducted in Spanish.

413/513 THE DON JUAN MYTH IN SPANISH CULTURE 4 credits Prerequisite: 407, 408 or instructor's permission. Study of the evolution of the Don Juan myth from its origins to its latest versions in the 20th century. 414/514 CULTURAL POUTICS IN THE RIVER PLATE 4 credits Prerequisite: 407, 408 or instructor's permission. This course will examine the military dictatorships of the seventies and eighties in Argentina and Uruguay by looking at how these regimes affected culture. 415/515 THE AGE OF REASON AND THE ROMANTIC REBELLION IN SPAIN 4 credits Prerequisite: 407 or 408 or instructor's permission. Study of the Enlightenment and the Romantic movement as reflected in the works of the major artists and writers of these periods. Conducted in Spanish. 416/516 REPRESENTING REALITY IN 19TH CENTURY SPAIN 4 credits Prerequisite: 407 or 408 or instructor's permission. A comparative study of the major literary and artistic movements in Spain from Realism to Modernism. Conducted in Spanish. 418/518 20TH CENTURY SPAIN: THE AVANT-GARDE 4 credits IN LITERATURE AND ART Prerequisite: 407 or 408 or instructor's permission. A comparative study of the major literary and artistic movements in Spain which illustrate the primary cultural changes of the century. Conducted in Spanish 419/519 THE SPANISH CIVIL WAR AND ITS CULTURAL IMPACT 4 credits Prerequisite: 407 or 408 or instructor's permission. Study the impact of the Civil War on Spanish culture. 422/522 SPECIAL TOPICS IN SPECIALIZED 1-4 credits LANGUAGE SKILLS, OR CULTURE, OR LITERATURE Prerequisite: 202 or equivalent. (May be repeated) Development of specialized language skills or reading of significant works of literature or culture not studied in other courses. 423/523 SPANISH-AMERICAN LITERATURE BEFORE 1900 4 credits Prerequisite: 407 or 408 or permission. Reading of representative Spanish-American literature from the discovery to 1900. Oral and written reports. Conducted in Spanish. 424/524 RACE AND ETHNICITY: INDIGENOUS CULTURES 4 credits IN 20TH CENTURY SPANISH AMERICA Prerequisite: 407 or 408 or instructor's permission. Traces the diverse representations of indige nous cultures in literature. Takes into account the interactive forces of class, gender, race and ethnic difference. Conducted in Spanish. 425/525 20TH CENTURY SPANISH-AMERICAN NOVEL 4 credits Prerequisite: 407 or 408 or instructor's permission. Reading and discussion of representative contemporary Latin American novels. Conducted in Spanish. 427/527 LATINO CULTURES IN THE U.S.A. 4 credits Prerequisite: 407 or 408 or instructor's permission. Inquiry into the Latino experience of displacement and marginality through the analysis of cultural manifestations in the U.S.A. Conducted in Spanish. 429/529 CULTURE AND LITERATURE OF THE HISPANIC CARIBBEAN Prerequisite: 407 or 408 or instructor's permission. Emphasis on customs, traditions, and literature, including lectures, films, slides, and analysis of selected writings by contemporary Hispanic authors from the Caribbean. Conducted in Spanish. 430/530 WOMEN IN 20TH CENTURY HISPANIC LITERATURE 4 credits Prerequisite: 407 or 408 or instructor's permission. Reading and analysis of selected works from the 20th Century that depict women in Hispanic countries. Methodologies of feminist criticism will be studied. Conducted in Spanish. 431/531 HISPANIC CULTURE: SPAIN 4 credits Prerequisite: 302 or permission. Study of society, customs, history, art, music, etc. of Spain, from a Hispanic perspective. Conducted in Spanish. 432/532 HISPANIC CULTURE: SOUTH AMERICA 4 credits Prerequisite: 302 or permission. Study of society, customs, history, art, music, etc. of South America, from a Hispanic perspective. Conducted in Spanish. 433/533 HISPANIC CULTURE: MEXICO AND CENTRAL AMERICA 4 credits Prerequisite: 302 or equivalent. Study of society, history, and culture of Mexico, Central America and the Hispanic Caribbean, from a Hispanic perspective. Conducted in Spanish. 497 INDIVIDUAL READING IN SPANISH 1-3 credits Prerequisite: 202 and permission of department chair. PHILOSOPHY 3600: INTRODUCTION TO PHILOSOPHY 3 credits Introduction to philosophic problems and attitudes through acquaintance with thoughts on some leading thinkers of Western tradition. 120 INTRODUCTION TO ETHICS 3 credits Introduction to problems of moral conduct through readings from the tradition and class discus-sions; nature of "good," "right," "ought" and "freedom." 125 THEORY AND EVIDENCE 3 credits An investigation of the concept of evidence and the criteria for the evaluation of theories in various areas of study including the natural sciences, the social sciences and philosophy. The role of

ous areas or study including the natural sciences, the social sciences and philosophy. The role of scientific information in the formation and justification of value judgments.
 170 INTRODUCTION TO LOGIC 3 credits

Introduction to logic and critical thinking. Includes such topics as meaning, informal fallacies, propositional logic, predicate and syllogistic logic and nature of induction.

- 211 HISTORY OF ANCIENT PHILOSOPHY 3 credits History and development of ancient Greek philosophy from pre-Socrates to Aristotle. Readings of primary sources in translation.
- 3 credits 216 AMERICAN PHILOSOPHY Prerequisite: one course in philosophy or permission of instructor. Movement of ideas in American from Royce to present 312 HISTORY OF MEDIEVAL PHILOSOPHY 3 credits History of Western philosophy from end of Roman Empire to Renaissance. Major philosophers studied include St. Augustine, St. Anselm, Peter Abelard, St. Thomas Aquinas, Duns Scotus and William of Ockham. Readings from primary sources. 313 HISTORY OF MODERN PHILOSOPHY 3 credits Analysis of major philosophical issues of 17th and 18th Centuries from Descartes through Kant. Readings of primary sources in translation. 314 19TH CENTURY PHILOSOPHY 3 credits Prerequisite: one course in philosophy or permission of instructor. Inquiry into philosophically significant ideas of Hegel, Marx, Schopenhauer, Mill, Kierkegaard and Nietzsche. 323 ADVANCED TOPICS IN ETHICS 3 credits Prerequisite: one course in philosophy or permission of instructor. An examination of selected topics in Applied Ethics and Ethical Theory, such as the ethics of cloning, evolutionary ethics, history of ethics and ethical issues from the Human Genome Project. Specific topics will be announced in the course schedule. 324 SOCIAL AND POLITICAL PHILOSOPHY 3 credits Prerequisite: one course in philosophy or permission of instructor. An examination of the norma-tive justification of social, political institutions and practices. Analysis concepts such as rights, justice, equality, political obligation from historical as well as contemporary points of view. Application to particular social issues covered. 331 PHILOSOPHY OF RELIGION 3 credits Prerequisite: one philosophy course or permission from instructor. Discussion, analysis of problems of theology, nature of religious experience; God's nature, existence; immortality, sin, faith, reason; holy revelation, redemption. 332 DIALECTICAL MATERIALISM 3 credits Prerequisite: 324 or permission of instructor. Includes Hegelian and other origins as well as its development in writings of Marx, Engels, Lenin and contemporary writers. Focus on meta-physics, social philosophy, philosophy of history, human nature, ethics, aesthetics. 340 FASTERN PHILOSOPHY 3 credits Prerequisite: One course in philosophy or permission of instructor. Examination and evaluation of philosophical traditions from India, China and Japan, including Hinduism, Buddhism, Taoism and Confucianism. 350 PHILOSOPHY OF ART 3 credits Prerequisite: One course in philosophy or permission of instructor. An examination of theories of the nature of art and the grounds of aesthetic evaluation. Analysis of such concepts as representation, form, content, expression, institution, convention, meaning, truth as they apply in the context of the arts. 355 PHILOSOPHY OF FEMINISM 3 credits Prerequisite: One course in philosophy or permission of instructor. Introduction to feminist cri-tiques of, and alternatives to, traditional western philosophy, including topics in ethics, metaphysics, epistemology, and religion. 361 BIOMEDICAL ETHICS 3 credits Prerequisites: 101, 120 or 170; or permission of instructor. The identification, analysis and evaluation of ethical issues arising most critically in the biomedical setting, e.g., abortion, termination of treatment, definition of death, IVF, AIDS. 362 BUSINESS ETHICS 3 credits Prerequisites: 101, 120 or 170; or permission of instructor. Basic moral theories, moral principles and the decision-making process, applied to issues in business. 363 POLICE ETHICS 3 credits Prerequisites: 101, 120 or 170; or permission of instructor. Basic moral concepts and their application to the criminal justice system. Concerned with such issues as punishment, the use of force and conflict resolution. 364 COMPUTER ETHICS 3 credits Prerequisites: 101, 120 or 170 or permission of instructor. A critical examination of ethical issues arising in connection with computers and information technology, e.g., computer hacking, electronic privacy, and the regulation of Internet content. 371 PHILOSOPHY OF MIND 3 credits Nature of mind and the relationship between mind and body. Specific topics such as the limits of human reason, personal identity, the role of human thought in action and whether machines can think are also considered. 374 SYMBOLIC LOGIC 3 credits Prerequisite: 170 or permission of instructor. Detailed consideration of propositional and firstorder predicate logic. Introduction to class logic, modal logics and axiomatics. 411/511 PLATO 3 credits Prerequisite: 211 or permission of instructor. Detailed study of the origin and development of Plato's theory of forms and the related theories of knowledge, ethics and politics. 418/518 ANALYTIC PHILOSOPHY 3 credits Prerequisite: One course in philosophy or permission of instructor. Study of ideal and ordinary language movements in 20th Century British and American philosophy. Deals with such figures as Russell, Carnap, Ayer, Moore, Wittgenstein, Ryle and Austen. 419/519 BRITISH EMPIRICISM 3 credits
 - Prerequisites: one introductory course and 313 or permission of instructor. Intensive analysis of selected major writings of Locke, Berkeley and Hume.

421/521 PHILOSOPHY OF LAW 3 credits Prerequisite: one course in philosophy or permission of instructor. Philosophical inquiry into the nature of law and legal institutions.

422/522 CONTINENTAL RATIONALISM 3 credits Prerequisites: one introductory course and 313 or permission of instructor. Intensive analysis of selected major writings of Descartes. Spinoza and Leibnitz. 424/524 EXISTENTIALISM 3 credits Prerequisites: one introductory course in philosophy, 314 or permission of instructor. In-depth inquiry into the thought of Kierkegaard, Jaspers, Heidegger, Sartre, Tillich and other existentialists with their concern for the human condition. 426/526 PHENOMENOLOGY 3 credits Prerequisites: one introductory course, 314 or permission of instructor. Inquiry into methodology of Husserl and Heidegger and their influence upon Western European and American thought. 432/532 ARISTOTLE 3 credits Prerequisites: 211 or permission of instructor. Detailed study of Aristotle's metaphysics, philosophy of nature, philosophy of mankind and ethics. 434/534 KANT Prerequisite: 313 or permission of instructor. Study of Kantian system of thought and its relation to history of philosophy. Includes thorough investigation of one or more of Kant's philosophic works.

482/562 THEORY OF KNOWLEDGE 3 credits Prerequisite: One course in philosophy or permission of instructor. Examination of nature of knowledge; theories of perception, conception and truth, problem of induction and relation of language to knowledge.

464/564 PHILOSOPHY OF SCIENCE

3 credits Prerequisites: 101, 170 or permission of instructor. Nature of scientific inquiry, types of explana-tion, laws and causality, theoretical concepts and reality. Also considers critics of hypotheticaldeductive view of science, e.g., Hanson and Kuhn.

471/571 METAPHYSICS

3 credits Prerequisite: One course in philosophy or permission of instructor. Theories about ultimate nature and ultimate explanation of reality. Uses readings from classical and contemporary sources.

480/580 SEMINAR

3 credits (May be repeated) Prerequisite: permission of instructor.

481/581 PHILOSOPHY OF LANGUAGE

Prerequisites: 101 and 170 or permission of instructor. Contemporary philosophies about nature of language and its relation to reality and human thinking. Includes discussion of views of linguists such as Chomsky

3 credits

4 credits

490 SENIOR HONORS PROJECT IN PHILOSOPHY 3 credits Prerequisite: 390 or senior standing in Honors Program or senior honors standing as philosophy major or permission of instructor or nomination by department faculty member. Research leading to completion of senior honors thesis involving original work under faculty supervision.

497/597 INDIVIDUAL STUDY 1-3 credits (May be repeated for a total of six credits) Prerequisites: completion of required courses of philosophy major or permission of instructor and department head. Directed independent study of philosopher, philosophy or philosophical problem under guidance of selected faculty member. Subject matter determined by selected faculty member in consultation with student. Graduate credit requires significant additional work which may include additional research paper.

PHYSICS

3650:

130 DESCRIPTIVE ASTRONOMY 4 credits Qualitative introduction to astronomy, intended primarily as a first science course for non-science majors. Includes laboratory and observational activities.

131 ASTRONOMY BY INQUIRY 4 credits Qualitative introduction to the major concepts of Astronomy by means of inquiry-based laboratory investigations. Intended for education majors.

- 133 MUSIC, SOUND AND PHYSICS 4 credits Qualitative introduction to the physics of sound, its properties, perception and reproduction, including acoustical principles of musical instruments. Laboratory and observational activities included.
- 4 credits 137 LIGHT Introductory, qualitative course dealing with the nature of light and the interaction of light with various materials to produce common visual effects. Laboratory activities provide experience in scientific investigation

261 PHYSICS FOR THE LIFE SCIENCES I

Prerequisites: high school algebra, trigonometry or 3450:149 as corequisite or permission. Introductory course for professional work in biology and health professions and services. Emphasizes life science applications. Mechanics: laws of motion, force, torque, work, energy, power, properties of matter: gases, liquids, solids, fluid mechanics.

262 PHYSICS FOR THE LIFE SCIENCES II

4 credits trerequisite: 261. Laws of thermodynamics, kinetic theory. Wave phenomena: sound, light, optics; electricity and magnetism; atomic and nuclear physics; radioactivity.

267,8 LIFE SCIENCE PHYSICS COMPUTATIONS | AND II 1 credit each Coreculisities: 261 (with 267): 262 (with 268). Optional companion courses to 261.2 provides additional computational experience in applications of physics to life sciences, emphasizing use of algebra and trigonometry. Particularly recommended for student with modest mathematical preparation.

291 ELEMENTARY CLASSICAL PHYSICS I 4 credits Corequisite: 3450:221. Introductory physics for student of science and engineering. Classical statics, kinematics and dynamics, as related to contemporary physics. Oscillations, waves; fluid mechanics. Vectors and some calculus introduced as needed.

292 ELEMENTARY CLASSICAL PHYSICS II 4 credits Prerequisite: 291. Thermodynamics from atomic point of view; basic laws of electromagnetism; mechanical and electromagnetic waves. Interference and diffraction; coherence; geometrical and physical optics.

293,4 PHYSICS COMPUTATIONS I AND II

Corequisite: 291 (with 293); 292 (with 294). Optional companion courses to 291,2 provides experience in problem solving, and elaborates application of calculus to simple physical phenomena. Particularly recommended for a freshman and for student with modest preparation in mathematics or physical sciences.

1 credit each

301 ELEMENTARY MODERN PHYSICS 3 credits Prerequisite: 292 or permission of instructor. Special relativity, introduction to quantum physics, hydrogen atom and complex atoms, atomic spectra, topics in nuclear and solid-state physics.

310 ELECTRONICS AND MEASUREMENT TECHNIQUES 3 credits Prerequisite: 262 or 292. Analog and digital circuits, active and passive circuit applications, op-amps, and electronic instrumentation.

320 WAVES 3 credits

Prerequisite: 262 or 292. Wave phenomenon associated with physical systems undergoing free, driven and damped oscillations is examined. Analysis includes: resonance, dispersion, reflection, normal mode vibrations and Fourier synthesis.

322,3 INTERMEDIATE LABORATORY | AND II 3 credits each

Prerequisite: 262 or 292. Laboratory course stressing measurement techniques with contemporary laboratory apparatus. Experiment design, instrument calibration and reporting emphasized. Modern physics experiments and measurement of fundamental natural constants.

331 INTERMEDIATE ASTRONOMY 3 credits Prerequisite: 262 or 292. A survey of astronomy at the intermediate level. Topics include principles of observational astronomy, Newtonian synthesis, nature of stars, structure of Universe.

340 THERMAL PHYSICS 3 credits Prerequisite: 262 or 292. Basic principles of thermal and statistical physics. Ensembles, laws of thermodynamics, equilibrium, irreversibility, equipartition theorem, canonical distribution, Maxwell distribution, phase changes, cyclic processes, transport processes.

MODELING AND SIMULATION 350

Prerequisites: 292, or 262; one elementary course in Computer Science such as 3460/201, 206, 208, or 209; and permission of instructor. An interdisciplinary course stressing modeling of natural phenomena using fundamental principles, and their simulation. Topics may include growth phenomena, fault propagation, kinetics, chemical reaction, etc.

UNDERGRADUATE RESEARCH 1-6 credits

(May be repeated) Prerequisite: permission of instructor. Participation in current research project in department under supervision of faculty member.

400/500 HISTORY OF PHYSICS 3 credits Prerequisite: 262 or 292. Study of origin and evolution of major principles and concepts characterizing contemporary physics.

3 credits 406/506 OPTICS Prerequisites: 320 and 3450:335. Propagation, reflection and refraction of electromagnetic waves, superposition, polarization, interference and interferometry, Fresnel and Fraunhofer diffraction, Fourier optics, coherence theory and quantum optics.

410/510 VACUUM SCIENCE AND TECHNOLOGY 3 credits

Prerequisite: 301. An interdisciplinary course stressing the fundamentals and applications of vacuum science, including selection of materials, pressure measurement and vacuum attainment, safety precautions, etc.

431/531 MECHANICS I 3 credits

Prerequisites: 292 and 3450:335. Mechanics at intermediate level. Newtonian mechanics, motion of a particle in one dimension, central field problem, system of particles, conservation laws, rigid bodies, gravitation.

3 credits 432/532 MECHANICS II

Prerequisite: 431/531. Advanced mechanics at the senior or beginning graduate level, moving coordinate systems, mechanics of continuous media, Lagrange's equations, tensor algebra and stress analysis, rotation of rigid bodies, vibration theory.

436/536 ELECTROMAGNETISM I 3 credits Prerequisites: 292, 3450:335 or permission of instructor. Electricity and magnetism at intermediate level. Electrostatics and magnetostatics, electric field, scalar potential, dielectrics, Laplace's and Poisson's equations, currents, magnetic field, vector potential, magnetic materials, inductance.

437/537 ELECTROMAGNETISM II 3 credits

Prerequisite: 436/536. Special relativity, four vectors, Maxwell's equations in covariant form; propagation, reflection and refraction of electromagnetic waves; multipole radiation.

441/541 QUANTUM PHYSICS I 3 credits Prerequisites: 301 and 3450:335. Introduction to quantum theory, Schrödinger equation, observables, angular momentum, perturbation theory, variational principle, bound states, scattering theory, radiative interactions, spin and the Pauli Principle.

442/542 QUANTUM PHYSICS II 3 credits Prerequisite: 441/541. Applications of quantum mechanics to atomic, nuclear and solid state physics. Tunneling and alpha decay, periodic potential, hydrogen and helium atoms, interatomic forces, quantum statistics.

451/551ADVANCED LABORATORY I 3 credits Prerequisite: 323 or permission of instructor. Experimental techniques, applicable to researchtype projects in contemporary physics. FT-IR spectroscopy, optical spectroscopy, lasers and thin-film growth and characterization.

3 credits 452/552 ADVANCED LABORATORY I

Prerequisite: 323 or permission of instructor. Experimental projects applicable to contemporary physics. Diode and dye lasers, NMR, SPM, chaos, electron tunneling and fiber optics. 3 credits

468/568 DIGITAL DATA ACQUISITION

Prerequisite: 262 or 292. Designed to introduce science and mathematics students to use of digital techniques of interfacing instruments to microcomputers. Physical measurements and device control are emphasized.

470/570 INTRODUCTION TO SOLID-STATE PHYSICS

Prerequisite: 441 or permission of instructor. Account of basic physical processes occurring in solids, with emphasis on fundamental relation between these processes and periodicity of crystalline lattice.

3 credits

1-4 credits

1-4 credits

1-4 credits

1 credit

481,2/581,2 METHODS OF MATHEMATICAL PHYSICS I AND I 3 credits each Prerequisites: 292, 3450:335 and senior or graduate standing in a physical science or engineering. Vectors, generalized coordinates, tensors, calculus of variations, vector spaces, linear transformations, matrices, eigenvalues, Hilbert space, boundary value problems, transcendental functions, complex variables, analytic functions, Green's functions, integral equations.

488/588 SELECTED TOPICS: PHYSICS

(May be repeated) Prerequisite; permission, Consideration of selected topics, procedures, techniques, materials or apparatus of current interest in physics.

490/590 WORKSHOP

(May be repeated) Group studies of special topics in physics. May not be used to meet undergraduate or graduate major requirements in physics. May be used for elective credit only

497/597 INDEPENDENT STUDY

(May be repeated) Prerequisite: permission. Further investigations of various selected topics in physics, under guidance of faculty member.

498/598 PHYSICS COLLOQUIUM

Lectures on current research topics in physics by invited speakers. May be repeated but only one credit counts toward the M.S. Degree. Offered on a credit/noncredit basis only

POLITICAL SCIENCE

3700:

- 100 GOVERNMENT AND POLITICS IN THE UNITED STATES 4 credits Examination of American political system with emphasis on fundamental principles, ideas, institutions and processes of modern government. Lecture and discussion sections (day classes Only)
- 150 WORLD POLITICS AND GOVERNMENTS 3 credits Introduction to international politics and an examination of the governments and foreign policies of selected states from a comparative perspective.

201 INTRODUCTION TO POLITICAL RESEARCH 3 credits Introduction to the research process in political science through an introduction to the logic of social science inquiry and contemporary techniques of analysis.

210 STATE AND LOCAL GOVERNMENT AND POLITICS 3 credits Examination of institutions, processes and intergovernmental relations at state and local levels.

300 COMPARATIVE POLITICS 4 credits Introduction to comparative political analysis; description of political systems of Great Britain, France, Germany and Soviet Union; contrast between democracy and totalitarianism.

- 302 AMERICAN POLITICAL IDEAS 3 credits Study of major thinkers and writers of American political thought.
- 303 INTRODUCTION TO POLITICAL THOUGHT 3 credits Survey of major ideas and concepts of Western political theory from pre-Socrates through period of Enlightenment.

304 MODERN POLITICAL THOUGHT 3 credits Examination of central concepts of political thought from 19th Century to present. Modern liberalism, communism, fascism and totalitarianism emphasized.

310 INTERNATIONAL POLITICS AND INSTITUTIONS 4 credits Relations among nations examined in political context.

- 311 DEVELOPING STATES IN WORLD POLITICS 3 credits Examines how developing states are conditioned by the global system and how they attempt to modify it.
- 312 THE POLITICS OF INTERNATIONAL TRADE AND MONEY 3 credits Prerequisite: 310 or permission of instructor. Examines trade and money as sources of international power; focuses on the evolution of the Bretton Woods monetery and GATT trade regimes.
- 320 BRITAIN AND THE COMMONWEALTH 3 credits Description and analysis of government and politics of Great Britain and leading nations of the Commonwealth.
- 321 WESTERN EUROPEAN POLITICS 3 credits Description and analysis of government and politics of France, Germany, Italy and Switzerland, with appropriate references to Scandinavia and Low Countries.
- 322 POLITICS OF POST-COMMUNIST STATES 3 credits Examines the changing political policies and processes of select post-Communist states of the former Soviet Union and East Central Europe.
- 323 POLITICS OF CHINA AND JAPAN 3 credits Examination of governmental structures and political processes of China and Japan
- 326 POLITICS OF DEVELOPING NATIONS 3 credits General introduction to concepts and theories of political development and political institutions. elite-recruitment and political processes of selected emerging nations.
- 327 AFRICAN POLITICS 3 credits Examination of patterns of government and politics of nations south of Sahara.
- 328 AMERICAN FOREIGN POLICY PROCESS 3 credits Examination of American foreign policy-making process; public opinion and other limitations on policy; specific contemporary problems in selected foreign policy areas.

- 335 LAW AND SOCIETY 3 credits Prerequisite: 100. This course will examine how law constructs and constrains political conflict, and how legal institutions mediate, reinforce, and challenge existing power relationships.
- 341 THE AMERICAN CONGRESS 3 credits Examination of structure and function of Congress, with comparative materials on legislative process on all levels. Presidential and congressional conflict examined.
- 342 MINORITY GROUP POLITICS 3 credits Examination of political behavior of racial, religious and ethnic minority groups in the United States
- 3 credits 350 THE AMERICAN PRESIDENCY The presidency as focal point of politics, policy and leadership in American political system.
- 360 THE JUDICIAL PROCESS 3 credits Role of police, lawyers, courts and judges in context of American political process. Structure and process of judicial policy making and limitations on judicial power.
- 361 POLITICS OF THE CRIMINAL JUSTICE SYSTEM 3 credits Examines the impact of the political process and political institutions on criminal law and policy.
- 363 CRIME, PUNISHMENT, POLITICS: A COMPARATIVE PERSPECTIVE 3 credits Prerequisite: 100. Comparative study of the structures, practices, power relationships, and politics in various criminal justice systems.
- 370 PUBLIC ADMINISTRATION: CONCEPTS AND PRACTICES 4 credits Examines current administrative theories and their application in public bureaucracies. Emphasis is placed on practices to improve the quality of public sector administration.
- 380 URBAN POLITICS AND POLICIES 4 credits Examination of problems emerging from urban and regional complexes in the United States. Structure and processes of political decision making at this level analyzed.
- 381 STATE POLITICS 3 credits Analysis of the state political process in terms of its capacity to deal with a wide range of socioe conomic problems. Special emphasis on legislators, administrators, parties and interest groups,
- 391 HONORS IN POLITICAL SCIENCE 3 credits Prerequisites: at least 17 credits and a 3.25 average in political science and permission of adviser.
- SELECTED TOPICS IN POLITICAL SCIENCE 392 1-3 credits (May be repeated, but no more than three credits can be applied to major in political science) Topics of substantial current importance, specialized topics within political science or experimental courses
- 395 INTERNSHIP IN GOVERNMENT AND POLITICS 2-9 credits (May be taken twice for a total of nine hours. No more than four credits may be applied toward major in political science.) Prerequisite: Three courses in political science at The University of Akron, 2.20 average in political science, and permission of instructor. Supervised individual placement with political office holders, party groups, governmental agencies, law firms and other organizations providing professional-level work.
- 397 INDEPENDENT STUDY 1-4 credits (May be repeated for a total of four credits) Prerequisites: senior standing, 3.00 grade-point average and permission of adviser.
- 402/502 POLITICS AND THE MEDIA 3 credits Examination of relationships between the press, the news media and political decision makers.
- 405/505 POLITICS IN THE MIDDLE EAST 3 credits The rise of the state system in the Middle East after World War I; an analysis of the socio-cultural, ideological forces influencing the political behavior of the people of the Middle East. In-depth study of selected political systems.

410/510 INTERNATIONAL DEFENSE POLICY 3 credits Prerequisite: At least one of the following: 220, 310; 3400:380, 382, 460, 461, or permission. Introduction to political uses of military forces. Major focus on methodological, conceptual, and ethical dilemmas confronted in developing and implementing defense policy.

- 412/512 GLOBAL ENVIRONMENT POLITICS 3 credits Prerequisites: 300, 310 or permission of instructor. Examines the general dimensions of the global environmental challenge, including the roles played by technology and the structure of the world system.
- 415/515 COMPARATIVE FOREIGN POLICY 3 credits Prerequisite: 310 or 328 or permission. Study of foreign policies of selected nations, with special attention to processes and instruments of decision making of the major powers
- 440/540 SURVEY RESEARCH METHODS 3 credits Prerequisites: 100 or permission. Study of survey research methods as applied to the analysis of public opinion, political behavior, and public policy formation.
- 41/541 THE POLICY PROCESS 3 credits Prerequisites: eight credits in political science. Intensive study of policy-making process, emphasizing roles of various participants in executive and legislative branches as well as private individuals and groups.

442/542 METHODS OF POLICY ANALYSIS 3 credits Prerequisite: 201. Examines variety of methods available for analyzing public policies. Techniques of cost benefit analysis, evaluation research quasi-experimentation are covered as well as consideration of ethical questions in policy analysis, the practical problems facing policy analysts.

443/543 POLITICAL SCANDALS AND CORRUPTION 3 credits This course will provide information on major political scandals, including media coverage, public opinion, the role of special prosecutors, and the impacts of scandals.

450/550 POLITICS OF CORRECTIONS

3 credits Prerequisite: 100. This course examines the political dynamics of correctional institutions' govern nance and internal power relations, electoral politics' and correctional policies, and political I imprisonment

461/561 THE SUPREME COURT AND CONSTITUTIONAL LAW

Prerequisite: 100 or permission. Interpretation of the Constitution by the Supreme Court with emphasis on federal judicial, legislative and executive power; separation of powers; and federalism.

3 credits

462/562 THE SUPREME COURT AND CIVIL LIBERTIES

Prerequisite: 100 or permission. Interpretation of the Constitution by the Supreme Court with emphasis on freedom of speech and press, freedom of religion, criminal rights and right to privacy.

3 credits

4 credits

4 credits

470/570 CAMPAIGN MANAGEMENT I Prerequisite: permission of instructor. Reading, research and practice in campaign management

decision making 471/571 CAMPAIGN MANAGEMENT II

3 credits Prerequisite: 470. The second course in campaign management. The focus is on timing, coalition building, candidate positioning, event planning, internal organization, and other elements of campaign strategy

472/572 CAMPAIGN FINANCE

Prerequisite: permission of instructor. Reading and research in financial decision making in political campaigns.

473/573 VOTER CONTACT AND ELECTIONS

Prerequisite: permission of instructor. Theoretical and practical approaches to communication in all types of campaigns.

474/574 POLITICAL OPINION, BEHAVIOR AND ELECTORAL POLITICS 3 credits Prerequisite: 100 or 201 or permission. Advanced analysis of psychological, cultural, and group processes of opinion formation and change. Attention given to the effect of opinion change on electoral outcomes.

475/575 AMERICAN INTEREST GROUPS

Prerequisite: six credits of political science or permission. Reading and research on the development, structure and function of interest groups in the United States.

476/576 AMERICAN POLITICAL PARTIES

Prerequisites: six credits of political science or permission. Reading and research on the development, structure and function of parties in the United States.

480/580 POLICY PROBLEMS

(May be repeated for a total of six credits) Prerequisite: 380 or permission. Intensive study of selected problems in public policy.

3 credits 481/581 POLITICS OF POLICING Prerequisite: 100. Analysis of various political dimensions underlying the study of politics and policing in the context of police reform, crime and the community.

482/582 CRIMINAL JUSTICE TOPIC: CURRENT ISSUES 3 credits (May be repeated for a maximum of six credits) Prerequisite: 100. Critical analysis of current issues relating to political science and criminal justice. No more then three credits can be applied to the major.

483/583 CONSTITUTIONAL PROBLEMS IN CRIMINAL JUSTICE 3 credits Prerequisite: 100. Analyzes Supreme Court policy-making regarding problems of criminal justice, including search and seizure, self-incrimination, right to counsel, jury selection, and post-appeal prisoner rights.

497 SENIOR HONORS PROJECT IN POLITICAL SCIENCE 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission. Open only to a political science major in Honors Program. Independent study leading to completion of senior honors thesis or other original work.

PSYCHOLOGY

3750:

- 100 INTRODUCTION TO PSYCHOLOGY 3 credits Introduction to scientific study of behavior, survey of physiological basis of behavior, sensation and perception, development, learning and cognition, personality, social interaction and other selected topics.
- 105 PROFESSIONAL AND CAREER ISSUES IN PSYCHOLOGY 1 credit Corequisite: 100. An overview of the field of psychology including educational requirements, career opportunities and professional issues for students considering a psychology major.
- 110 QUANTITATIVE METHODS IN PSYCHOLOGY 4 credits Prerequisite or corequisite: 100. Presentation of data, descriptive statistics, correlation, hypothesis testing and introduction to statistical methodologies in psychology, including computer applications
- 220 INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY 4 credits Prerequisites: 100 and 110. Lectures and laboratory experience in the scientific bases of psychology such as experimental design, methods and apparatus, collection and analysis of data and interpretation of results.
- 230 DEVELOPMENTAL PSYCHOLOGY 4 credits Prerequisite: 100. Determinants and nature of behavioral change from conception to death
- 240 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY 4 credits Prerequisite: 100. Survey of applications of psychology in industry, business and government with emphasis on understanding employees and evaluating their behavior.

320 BIOPSYCHOLOGY

Prerequisite: 100. Relationship between behavior and its biological/physiological foundations including brain structure and function, sensation, behavior genetics, learning and memory, and other topics.

335 DYNAMICS OF PERSONALITY

Prerequisite: 100. An overview of theory and research involving the development, maintenance and assessment of personality and individual differences.

SOCIAL PSYCHOLOGY 340

4 credits Prerequisite: 100. The examination of an individual's response to social environment and social interaction processes. Social perception, attitude formation and change, affiliation and attraction, altruism, group processes and nonverbal behavior.

- 345 COGNITIVE PROCESSES Prerequisite: 100. Survey of the basic phenomena, concepts and theories in the areas of human
- perception, learning, memory and cognition. 400/500 PERSONALITY 4 credits Prerequisites: 400-100 and 335; 500-admission to the Graduate School. Consideration of cur-

4 credits

4 credits

4 credits

- rent conceptualizations of the normal personality with emphasis on methods of measurement, experimental findings and research techniques.
- 410/510 PSYCHOLOGICAL TESTS AND MEASUREMENTS 4 credits Prerequisites: 410-100, 110; 510-edmission to the Graduate School. Consideration of the nature, construction and use of tests and measurements in industry, government and education. Includes aptitude and achievement tests, rating scales, attitude and opinion analysis.
- 420/520 ABNORMAL PSYCHOLOGY 4 credits Prerequisites: 420-100: 520-admission to the Graduate School. Survey of syndromes, etiology, diagnoses and treatments of major psychological conditions ranging from transient maladnts to psychoses.
- 430/530 PSYCHOLOGICAL DISORDERS OF CHILDREN 4 credits Prerequisites: 430-100 and 230; 530-admission to the Graduate School. Survey of syn-dromes, etiologies and treatments of behavioral disorders in children from the standpoint of developmental psychology. Behavioral data and treatment approaches emphasized.
- 435 CROSS-CULTURAL PSYCHOLOGY 4 credits Prerequisites: 100. Influence of culture and ethnicity upon development of individual psychological processes including functioning, identity, social motives, sex roles and values
- 440 PERSONNEL PSYCHOLOGY AND THE LAW 4 credits Prerequisites: 240 or 6500:301. The implications of equal employment law on the practice of personnel psychology.

441 CLINICAL AND COUNSELING PSYCHOLOGY I

- 4 credits Prerequisites: 100 and 335. Overview of the fields of clinical and counseling psychology including counseling and psychotherapeutic approaches, vocational counseling, assessment, research, training and professional issues
- 442 CLINICAL AND COUNSELING PSYCHOLOGY II 4 credits Prerequisite: 441. Overview of individual counseling and psychotherapy, group counseling, personality and ability testing, marriage and family counseling, hypnosis, sex therapy, psychopharmacolo-gy and related specialties. Specific topics in clinical and counseling practice including professional trends, ethics, various therapeutic and diagnostic procedures, and specialty areas.

443/543 HUMAN RESOURCE MANAGEMENT

Prerequisites: 443--- 100 and 240; 543---admission to the Graduate School. The application of psychological theory to the effective management of human resources in an organization, including recruitment, selection, training and retention of personnel.

444/544 ORGANIZATIONAL THEORY

Prerequisites: 444-100 and 240; 544 - admission to the Graduate School. The application of psychological theory to macro-level processes in organizations including leadership, motivation, task performance, organizational theories and development.

445/545 PSYCHOLOGY OF SMALL GROUP BEHAVIOR 4 credits Prerequisites: 445—100; 545—admission to the Graduate School. Intensive investigation of fac-tors affecting behavior and performance in small groups including effects of personality, social structures, task, situational and social-cognitive variables.

446 RESEARCH DESIGN AND ANALYSIS 4 credits Prerequisites: 100, 110 and 220. Review of psychological methodology including research design and analysis, internal and external validity, measurement of constructs and specific analytic techniques.

450/550 COGNITIVE DEVELOPMENT 4 credits

Prerequisite: 450-100 and 345; 550-edmission to the Graduate School. Theory and research on life-span changes in cognitive processes including concept formation/categorization, information processing and Piagetian assessment tasks.

460/560 HISTORY OF PSYCHOLOGY 3 credits Prerequisite: 460-100, 560 - admission to the Graduate School. Psychology in pre-scientific period and details of developmental or systematic viewpoints in 19th and 20th Centuries.

- 474 PSYCHOLOGY OF WOMEN 4 credits Prerequisites: 3750:100 or 3001:300. Reviews theory and research in the psychology of women and gender and encourages students to use these in their everyday lives.
- 475 PSYCHOLOGY OF ADULTHOOD AND AGING 4 credits Prerequisites: 100 and 230. Psychological aspects of human development from adolescence to older adulthood including age-related changes in socialization, personality, intelligence, sensa-tion, perception, learning, memory and clinical applications.
- 460 SPECIAL TOPICS IN PSYCHOLOGY 1-4 credits (May be repeated to a maximum of 8 credits) Prerequisite: 100 and 64 credits completed. Comprehensive survey of contemporary status of specialized topics and issues in psychology. Emphasis on original source materials, critical analysis and synthesis of empirical and theoretical aspects.
- 485 APPLIED DEVELOPMENTAL PSYCHOLOGY 4 credits Prerequisite: 100. Conceptual and methodological issues in life-span developmental psychology. The approach is data-based, multidisciplinary and problem-focused.
- 498.9 HONORS PROJECT IN PSYCHOLOGY 4 credits each Prerequisites: Psychology mejor and departmental permission, and 100 and 105 and 110 and 220, and 320 or 335 or 340 or 345. 488: Selection of research topic, review of relevant literature, research design, and proposal. 489: Data collection, analysis, and preparation of the final research report in journal style.
- 490/590 WORKSHOP IN PSYCHOLOGY 1-5 credits (May be repeated. May not be used to meet undergraduate or graduate major requirements in psychology.) Prerequisites: 490-3750:100 and 64 credits completed; 590-admission to the Graduate School, Group studies of special topics in psychology.

495 FIELD EXPERIENCE IN PSYCHOLOGY

(May be repeated to a maximum of 6 credits). Prerequisites: 100, 105 and 110 and eight additional credits in psychology. On-site supervised individual placements as a psychology assistant in appropriate community and institutional/organizational settings.

2-4 credits

3 credits

497 INDEPENDENT READING, AND/OR RESEARCH IN PSYCHOLOGY 1-3 credits (May be repeated to a maximum of 6 credits). Prerequisites: 3750:100 and 105 and 110 and 220 and four additional credits in psychology. Independent reading and/or research in an area of psychology under the supervision and evaluation of a selected faculty member.

SOCIOLOGY

3850:

100 INTRODUCTION TO SOCIOLOGY

4 credits Basic terminology, concepts and approaches in sociology, including introduction to analysis of social groups and application of sociological concepts to the understanding of social systems. Required of majors. Lecture/discussion.

104 SOCIAL PROBLEMS

3 credits Prerequisite: 100 or permission. Analysis of selected contemporary problems in society; application of sociological concepts and research as tools for understanding sources of such problems.

301 METHODS OF SOCIAL RESEARCH I

Prerequisites: 100 and 3450:145 or equivalent or permission. Lecture/laboratory course (minimum of two laboratory hours per week). Research design and data-gathering techniques. Required of all majors except sociology/anthropology.

302 METHODS OF SOCIAL RESEARCH II

Prerequisite: 100 and 301 and 3450:145 or equivalent (Sociology/anthropology majors are excused from the 301 prerequisite), or permission. Quantitative techniques and application to sociological data. Combination lecture and laboratory course requiring at least two laboratory hours per week. Required of majors. Lecture/laboratory.

315 SOCIOLOGICAL SOCIAL PSYCHOLOGY

3 credits Prerequisite: 100. The reciprocal influence of individuals and groups. How interpersonal processes produce and affect group structure. How groups affect the development and behavior of the social person.

320 SOCIAL INEQUALITY

Prerequisite: 100 or permission. Study of the way social rankings occur in societies and how particular rankings affect individual behavior, group relations and social structures. Lecture.

321 POPULATION

An introduction to world and national population trends, related demographic and social charactenstics. Topics include fertility, mortality, morbidity, migration, abortion, birth control, population policy in relation to societal problems. Lecture.

324 SOCIAL MOVEMENTS

Prerequisite: 100 or permission. Social movements as distinguished from other forms of collective behavior; analysis of social situations which produce social movements; focus on development of social movements and their role in social change. Lecture.

330 CRIMINOLOGY

Prerequisite: 100. Major focus on interrelationships and analysis of crimes, criminals, criminal justice systems and society. Lecture.

334 SOCIAL ORGANIZATION

3 credits Prerequisite: 100 or permission. Nature of social organization, social control; organizational typologies; theories of organizational structure, functions; analysis of complex organizations in a ocial system. Lecture

335 SOCIAL BEHAVIOR IN ORGANIZATIONS

Prerequisite: 100 or permission. Analysis of the structure of such complex organizations as voluntary associations, business organizations and public bureaucracies, in relation to issues including organizational effectiveness, organizational design and change, job satisfaction and quality of work experience. Lecture

336 SOCIOLOGY OF WORK AND OCCUPATIONS

3 credits Prerequisite: 100 or permission. Survey of theory and empirical research in areas such as the structure of occupations and professions, occupational attainment, work force characteristics, work values and orientations, the nature of work. Lecture.

340 THE FAMILY

3 credits Prerequisite: 100 or permission. Analysis of family as a social system; historical, comparative and contemporary sociological approaches examined in relation to family structure and functions. Lecture.

341 POLITICAL SOCIOLOGY

3 credits Prerequisite: 100 or permission. Survey of theory and empirical research dealing with relation-ship between political phenomena and the larger network of social processes in human societies. Lecture

342 SOCIOLOGY OF HEALTH AND ILLNESS

3 credits Prerequisite: 100 or permission. General survey of sociological perspectives, concepts and research on health, illness and health-care delivery systems. Lecture.

343 THE SOCIOLOGY OF AGING

Prerequisite: 100 or permission. Examination of process of aging from perspective of behavioral and sociological aspects. Lecture.

344 SOCIOLOGY OF GENDER

conditions.

Prerequisite: 100 or permission. Review of theories and research on origins, characteristics and changes in gender. An examination of gender as structure, process and experience in industrial ized society.

345 FAMILY AND HEALTH Prerequisites: 100 or permission. Survey of interrelationships between family structure and functioning and the health care system. Includes historical perspectives as well as current

365 SPECIAL TOPICS IN SOCIOLOGY 1-3 credits (May be repeated) Prerequisite: permission. Special topics of interest to sociology major and non-major not covered in regular course offerings.

397 SOCIOLOGICAL READINGS AND RESEARCH 1-3 credits

Prerequisite: permission. Individual study of problem area of specific interest to individual student under guidance of department member. Preparation of a research paper.

410/510 SOCIAL STRUCTURES AND PERSONALITY 3 credits

Prerequisite: 100 or permission. Interrelationships between position in society, personality characteristics. Personality treated as both result and determinant of social structure and process. Lecture

411/511 SOCIAL INTERACTION 3 credits

Prerequisite: 100 or permission. Intensive study of advanced theory and research in social psychology, particularly how social interaction and self-conception affect one another. Lecture.

412/512 SOCIALIZATION: CHILD TO ADULT 3 credits Prerequisite: 100 or permission. Theoretical and empirical analysis of process by which infant, child, adolescent and adult learn social and cultural requirements necessary to function in new roles, changing roles and society in general.

421/521 RACIAL AND ETHNIC RELATIONS 3 credits

Prerequisite: 100 or permission. Analysis of structure and dynamics of race and ethnic relations from a variety of perspectives emphasizing both historical and contemporary issues. Lecture.

423/523 SOCIOLOGY OF WOMEN 3 credits Prerequisites: 100 or permission of instructor. Examination of research and theories pertaining to women's status in society, including economic conditions, the relationship between structure

425/525 SOCIOLOGY OF URBAN LIFE 3 credits

Prerequisite: 100 or permission. Emergence and development of urban society, Examination of urban social structure from neighborhood to metropolis, the problems and prospects. Emphasis on various life styles of urban subcultures. Lecture/discussion.

428/528 THE VICTIM IN SOCIETY

and experience, and other gender-related issues.

3 credits Prerequisites: 100 or permission of instructor. Study of the nature, causes, and consequences of victimization with special focus on crime victimization.

430/530 JUVENILE DELINQUENCY

3 credits Prerequisite: 100 or permission. Analysis of social structure and process from which delinguency develops. Emphasis on current and past research. Lecture/discussion.

431/531 CORRECTIONS 3 credits

Prerequisites: 330 or 430. Theories, beliefs and practices of community and institutional corrections systems, including past and current social research. Course taken prior to 3 credit hour Field Placement in Corrections (3850:471).

433/533 SOCIOLOGY OF DEVIANT BEHAVIOR 3 credits

Prerequisites: 100 and at least six additional credits of sociology courses or permission. Survey of theories of deviant behavior and relevant empirical research. Special emphasis given to interaction processes and social control. Lecture.

441/541 SOCIOLOGY OF LAW 3 credits

Prerequisites: 100 and at least six additional credits of sociology courses or permission. Social origins and consequences of law and legal processes. Emphasis on uses of law, social change and aspects of legal professions. Lecture.

444/544 SOCIAL ISSUES IN AGING

3 credits Prerequisite: 100 or permission. A look into the major issues and problems facing older persons Special attention is given to the unmet needs of the elderly as well as an examination of current societal policy and programs to meet these needs.

450/550 SOCIOLOGY OF MENTAL ILLNESS 3 credits

Prerequisite: 100 or permission. The social history of the mental hospital, theories and epidemiology of mental illness, community-based treatment models, the organization of mental health services, the role of personal social networks and mutual support groups.

4 credits

460/560 SOCIOLOGICAL THEORY

Prerequisite: 100 or permission. An overview and examination of theoretical issues in sociology through the study of both classical and contemporary theoretical work.

471 FIELD PLACEMENT IN CORRECTIONS 3 credits

Prerequisite: 431. Placement in selected community or institutional agency. Minimum 80 hours. Student must receive permission from instructor for placement. 495 FIELD INTERNSHIP 2-4 credits

(May be repeated for a total of nine credits) Prerequisites: permission of a faculty supervisor. Placement in community organization for supervised experience related to degree requirement. Student must submit an application to the intern coordinator during semester prior to enrollment

496 SENIOR HONORS PROJECT

1-3 credits (May be repeated for a total of six credits) Prerequisites: enrollment in Honors Program and senior standing, and major in sociology or sociology/anthropology. Thesis or original creative work appropriate to student's area of interest. Requirements and evaluation of project determined by departmental honors preceptor and student's honors project adviser.

College of Engineering

GENERAL ENGINEERING

4100:

- 110 WOMEN IN ENGINEERING SEMINAR AND PEER GROUPS 1 credit Beginning women students may elect this one-credit course that provides an overview of the career opportunities for women in engineering. The course utilizes dynamic speakers to reinforce the student's educational and career choices. Small groups meet weekly, led by an upperclass engineering student. This interactive peer environment fosters personal development for first-vear students.
- 203 ENVIRONMENTAL SCIENCE AND ENGINEERING 3 credits Science and engineering fundamentals required to understand environmental issues and alternative solutions. Not for engineering, chemistry, or physics majors.
- 300 COOPERATIVE EDUCATION WORK PERIOD 0 credit Elective for cooperative education student who has completed sophomore year. Practice in industry and comprehensive written reports of this experience.
- **301 COOPERATIVE EDUCATION WORK PERIOD** 0 credit Required for cooperative education student only. Practice in industry and comprehensive written reports of this experience. Offered spring semester of third year.
- **COOPERATIVE EDUCATION WORK PERIOD** 302 0 credit Required for cooperative education student only. Practice in industry and comprehensive written reports of this experience. Offered fall semester of fourth year.
- 403 COOPERATIVE EDUCATION WORK PERIOD 0 credit Required for cooperative education student only. Practice in industry and comprehensive written reports of this experience. Offered summer after fourth year.

CHEMICAL ENGINEERING

4200:

- 101 TOOLS FOR CHEMICAL ENGINEERING 3 credits Corequisites: 3450:149. Introduction to Chemical Engineering. Basic concepts of engineering practice. Introduction to professional level software including process simulation, control design, spreadsheets, mathematical computation, and process flow graphics.
- 121 CHEMICAL ENGINEERING COMPUTATIONS 2 credits Prerequisites: 101 or permission. Computer programming language, flowcharting, introductory simulation and introductory numerical analysis.
- 194 CHEMICAL ENGINEERING DESIGN I 1 credit Prerequisites: 4200:101 and permission. Individual or group project under faculty supervision. Introduction to chemical engineering processes and modern design technology. Written report is required.
- 200 MATERIAL AND ENERGY BALANCES 4 credits Prerequisites: 121, 3450:221 and 3150:154. Introduction to material, energy balance calculations applied to solution of chemical problems
- 225 EQUILIBRIUM THERMODYNAMICS 4 credits Prerequisites: 200 and 3450:223. Second law of thermodynamics, entropy, applications, comprehensive treatment of pure and mixed fluids. Phase and chemical equilibria, flow processes, power production and refrigeration processes covered.
- 294 CHEMICAL ENGINEERING DESIGN II 1-2 credits Prerequisites: 121, 200 and permission. Supervised individual or group design project. Analysis of multi-unit process using simulation and/or experimental techniques. Written report and oral presentation required.

MATERIALS SCIENCE 305

2 credits Prerequisites: 3150:153 and 3650:292 and junior standing. Structure, processing and properties of metals, ceramics and polymers. Special topics, such as composites, corrosion and wear

321 TRANSPORT PHENOMENA Prerequisites: 200 and 3450:223. Constitutive equations for momentum, energy and mass

transfer. Development of microscopic and macroscopic momentum, energy and mass transfer equations for binary systems. Analogy and dimensionless analysis. Problems and applications in unit operations of chemical engineering.

330 CHEMICAL REACTION ENGINEERING

Prerequisite: 225. Nonequilibrium processes including chemical reaction mechanisms, rate equations and ideal reactor design applied to homogeneous and heterogeneous systems.

PROCESS ECONOMICS

Prerequisite: 200. Theory and application of engineering economy to multi-unit processes. Cost estimation, time value of money, profit analysis, decision making and introduction to project

351 FLUID AND THERMAL OPERATIONS

3 credits Prerequisite: 321. Applications of fluid mechanics including piping, pumping, compression, metering, agitation and separations. Applications of heart transfer by conduction, convection and radiation to design of process equipment.

- 353 MASS TRANSFER OPERATIONS 3 credits Prerequisites: 225 and C- or above in 200. Theory and design of staged operations including distillation, extraction, absorption. Theory and design of continuous mass transfer devices
- 360 CHEMICAL ENGINEERING LABORATORY 3 credits Prerequisites: 330, 351, 353. Comprehensive experiments in combined heat and mass transfer. thermodynamics, and reaction kinetics. Data collection and analysis. Comprehensive reports in various formats.
- 394 CHEMICAL ENGINEERING DESIGN III 1-3 credits Prerequisites: 351 and permission. Supervised individual or group design project. Develop, evaluate and design feasible solutions to an open-ended problem pertinent to chemical engineering. Written report and oral presentation required.
- 408 POLYMER ENGINEERING 3 credits
- Prerequisite: permission or senior standing. Commercial polymerization, materials selection and property modification, polymer processing, applied rheology and classification of polymer industry.
- PROCESS ANALYSIS AND CONTROL 3 credits Prerequisites: 330, 353. Response of simple and chemical processes and design of appropriate control systems.

438 ENERGY INTEGRATION

3 credits Prerequisite: 351. This course uses Pinch Design formalism to present the core energy integration tools for energy and area targeting, and tools for integration of reactors, distillation columns, and heat pumps.

441 PROCESS DESIGN I 3 credits

Prerequisites: 330, 351, 353. Application of chemical engineering fundamentals to the design of a multi-unit process. Emphasis on use of process simulators. Advanced equipment design, oral and written communication skills and teamwork.

442 PROCESS DESIGN II 3 credits

Prerequisite: 441 or permission. Teaches methods of process conceptulization, preliminary optimization. Specific topics include: chemical process design methodolgy, design heuristics, energy integration, and process safety review.

461/561 SOLIDS PROCESSING 3 credits

Prerequisites: 321 and 353 or permission. Comprehensive problems in sedimentation, fluidization, drying and other operations involving mechanics of particulate solids in liquid and gas continua. 462 INDUSTRIAL ENZYME TECHNOLOGY 3 credits

Prerequisites: 330 and 351. Application of chemical engineering to biological processes involving enzymes and their industrial applications. Special emphasis given to the kinetics, control, design, and process economics aspects.

463/563 POLLUTION CONTROL

3 credits Prerequisite: 353 or permission. Air and water pollution sources and problems. Engineering aspects and methodology

466/566 DIGITIZED DATA AND SIMULATION

Prerequisite: permission. Data acquisition and analysis by digital devices, digital control applications and design.

3 credits

470/570 ELECTROCHEMICAL ENGINEERING 3 credits

Prerequisites: 322, 330. Chemical engineering principles as applied to the study of electrode processes and to the design of electrochemical reactors. Topics include electrochemical thermo-dynamics, cell polarizations, Faraday's Laws, electrode kinetics, transport processes in electrochemical systems, current distributions, reactor design, experimental methods, commercial processes, and batteries and fuel cells.

471 FLIEL ENGINEERING

3 credits Prerequisite: 330 or permission of instructor. Topics related to clean liquid and solid fuels technology. Special emphasis given to design, system analysis, environmental impacts, and novel technologies.

472 SEPARATION PROCESSES IN BIOCHEMICAL ENGINEERING

3 credits Introduction to the separation and purification techniques pertinent to bioprocesses, with emphasis on engineering considerations for large scale operations.

473 BIOREACTOR DESIGN

3 credits Prerequisite: 330 or instructor's consent. Design, analysis, and scale-up of bioreactors for various biological processes

488 CHEMICAL PROCESSES DESIGN

3 credits Prerequisite: Permission of instructor or senior standing. Process design and analysis of emerging chemical technologies. Case studies, such as in-situ processing, alternative fuels, bioremediation, and engineering materials manufacture.

494 DESIGN PROJECT 3 credits Prerequisite: Permission or senior standing. Individual design project pertinent to chemical engineering under faculty supervision. Written report and oral presentation required.

TOPICS IN CHEMICAL ENGINEERING 1-3 credits (May be repeated for a total of six credits) Prerequisite: permission. Topics selected from new and developing areas of chemical engineering, such as electrochemical engineering, coal and synthetic fuels processing, bioengineering, simultaneous heat and mass transfer phenomena and new separation techniques.

497 HONORS PROJECT

3 credits

3 credits

2 credits

1-3 credits (May be repeated for a total of six credits) Prerequisite: special permission. Individual creative project pertinent to chemical engineering culminating in undergraduate thesis, supervised by faculty member of the department.

499 RESEARCH PROJECT

1-3 credits (May be repeated for a total of six credits) Prerequisite: permission. Individual research project pertinent to chemical engineering under faculty supervision. Report required.

CIVIL ENGINEERING

4300:

101 TOOLS FOR CIVIL ENGINEERING

3 credits Corequisites: 3450:149. Introduction to Civil Engineering. Basic concepts of engineering practice Introduction to professional level software including CAD, graphics presentation, spreadsheets, database, and mathematical computation.

201 STATICS

Corequisites: 3450:222 and 3650:291. Forces, resultants, couples; equilibrium of force systems; distributed forces; centers of gravity, analysis of simple structures; moments of inertia; kinematics.

202 INTRODUCTION TO MECHANICS OF SOLIDS

Prerequisite: 201. Axial force, bending moment diagrams, axial stress and deformation; stressstrain diagrams; torsion; flexural stress; flexural shearing stress; compound stresses; indeterminate beams: columns.

230 SURVEYING

Basic tools and computations for surveying: measurement of distance elevation and angles; traverse surveys. Laboratory field practice.

306 THEORY OF STRUCTURES

3 credits Prerequisite: 202. Stability and determinacy; statically determinate trusses and frames; approximate frame analysis influence lines; moving loads; virtual work analysis; moment area theorem; theorem of three moments; moment distribution for continuous beams and frames.

313 SOIL MECHANICS

Prerequisite: 202 or permission. Physical properties of soils. Soil water and groundwater flow. Stresses, displacements, volume changes, consolidation within a soil mass. Soil strength. Compaction.

314 GEOTECHNICAL ENGINEERING

3 credits Prerequisite: 313. Limiting equilibrium within a soil mass. Design of retaining walls, bulkheads, shallow, deep foundation systems. Slope stability. Laboratory study of soil properties and behavior.

321 INTRODUCTION TO ENVIRONMENTAL ENGINEERING Prerequisites: 3150:153, 3450:222. Basic principles of ecosystems, microbiology, chemical reac-

tions, and material flow that environmental engineers use to protect our water, air and soil.

323 WATER SUPPLY AND POLLUTION CONTROL 3 credits Prerequisite: 321. Water and wastewater characteristics, criteria, quantities and distribution. Water and wastewater treatment process flowsheets, design and operation. Wastewater

and residue disposal 341 HYDRAULIC ENGINEERING

4 credits* Prerequisite: 4600:310. This course will focus on presentation and application of fundamental hydraulic principles in both the classroom and laboratory. Examination of flow in pipelines and pipe networks, pumps and pumping stations, hydrology, flow in open channels, groundwater hydraulics, and design of hydraulic structures will be studied. Emphasis will be placed on proper application of principles, data interpretation and analysis, problem solving, and report writing.

361 TRANSPORTATION ENGINEERING

Prerequisite: junior standing. Introductory survey of transportation topics including transportation planning requirements and techniques, introduction to design of highways, airports and railroads and introduction to traffic engineering.

380 ENGINEERING MATERIALS LABORATORY

Prerequisite: 202. Fundamentals and applications of materials science, mechanics of solids and study of laboratory instrumentation and standard techniques in testing of engineering materials.

390 CIVIL ENGINEERING SEMINAR

1 credit A civil engineering seminar discussing contemporary issues in civil engineering, our professional and ethical responsibilities, and our impact and interaction with society.

401 STEEL DESIGN

Prerequisite: 306. Tension, compression members: openweb joists; beams; bearing plates; beamcolumns; botted, welded connections.

REINFORCED CONCRETE DESIGN 403

Prerequisite: 306. Ultimate strength analysis and design; compression steel; diagonal tension; stirrups; development length; one-way slab; T-beams; two-way slabs; columns; isolated and combined footings.

404 ADVANCED STRUCTURAL DESIGN

3 credits Prerequisites: 401, 403. Composite design; plate girders; plastic design; cantilever retaining walls; torsion in R/C members; deflection of R/C members; continuous girder bridge design.

407 ADVANCED STRUCTURAL ANALYSIS

Prerequisite: 306. Energy methods for beams and frames. Stiffness and flexibility formulations for framed structures using classical and matrix methods. Introduction to stability and plastic analysis. Warping-Torsion behavior of beams. Analysis of axisymmetric circular plates and membrane shells.

414/514 DESIGN OF EARTH STRUCTURES

3 credits Prerequisite: 314 or permission. Design of earth structures: dams, highway fills, cofferdams, etc. Embankment construction techniques, quality control, embankment analysis, instrumentation, foundation soil stabilization, seepage analysis and control. Design problem. Graduate students will perform more advanced analysis and design.

418/518 SOIL AND ROCK EXPLORATION

Prerequisite: 314 or permission. Site exploration criteria and planning. Conventional boring, sampling and in situ testing methods. Theory and application of geophysics and geophysical methods including seismic, electrical resistivity, gravity, magnetic and radioactive measurements. Air photo interpretation.

423 CHEMISTRY FOR ENVIRONMENTAL ENGINEERS

3 credits Prerequisite: One year of college chemistry. General, physical, organic biochemistry, equilibrium, and colloid chemistry concepts applied to Environmental Engineering. Concepts are used in water and wastewater laboratory.

- 424 WATER-WASTEWATER LABORATORY 1 credit Corequisite: 323 or permission. Analysis of water and wastewater.
- 426/526 ENVIRONIMENTAL ENGINEERING DESIGN 3 credits Prerequisite: 323. An introduction to the physical, chemical and biological processes utilized in the treatment of water and wastewater, with design parameters emphasized.

427 /527 WATER OUALITY MODELING AND MANAGEMENT 3 credits Prerequisite: 323. Analysis and simulation of the physical, chemical and biochemical processes affecting stream quality. Development of management strategies based upon the application of water quality modeling techniques to environmental systems.

428/528 HAZARDOUS AND SOLID WASTES

3 credits Prerequisite: senior standing or permission of instructor. Hazardous and solid waste quantities, properties and sources are presented. Handling, processing, storage and disposal methods are discussed with non-technical constraints outlined.

441 HYDRAULIC DESIGN Prerequisite: 341. Collection and critical evaluation of hydraulic data related to actual design problem selected by instructor. Development and analysis of design alternatives. Preparation of reports.

443/543 APPLIED HYDRAULICS 3 medite Prerequisite: 341. Review of design principles: urban hydraulics, stream channel mechanics, sedimentation, coastal engineering.

445 HYDROLOGY

3 credits Prerequisite: 341. Surface water hydrology, water cycle, precipitation, evaporation, stream flow. Principles of hydrologic systems and their analysis. Hydrologic simulation, reservoir planning and water supply studies. Analysis of rainfall and floods.

HYDRAULICS LABORATORY

3 credits

1 credit Prerequisite: 341, Introduction to laboratory and field devices for hydraulic measurements. Reduction and presentation of hydraulic data. Individual assignments of model studies of hydraulic structures

URBAN PLANNING 2 credits 450

Historical developments in urban planning; urban planning techniques and patterns; comprehensive master planning studies; planning regulations; design problems; class projects; class project presentation.

451/551 COMPUTER METHODS OF STRUCTURAL ANALYSIS

Prerequisite: 306. Computer methods of structural analysis. Finite element software and interactive graphics. Stiffness concepts and matrix formulation of beams; modeling of simple and complex structural systems; vibration analysis using microcomputers.

3 credits

3 credits

452 STRUCTURAL VIBRATIONS AND EARTHQUAKES 3 credits

Prerequisite: 306. Vibration and dynamic analysis of structural systems with one, two, or more degrees of freedom; beams, frames, buildings and bridges. Numerical methods of analysis. Elasticplastic systems. Earthquake analysis of design. Earthquake codes.

453/553 OPTIMUM STRUCTURAL DESIGN 3 credits

Prerequisite: 306. Basic concepts in structural optimization. Mathematical programming methods including unconstrained minimization, multidimensional minimization and constrained minimization.

454/554 ADVANCED MECHANICS OF MATERIALS

3 credits Prerequisite: 202 or equivalent. Three-dimensional state of stress and strain analysis. Unsym metric bending of straight and curved members with shear deformation. Beams on elastic foundations. Saint Venant's torsional problems. Inelastic analysis of bending and torsional members. Introduction to energy method. Instability behavior of prismatic members.

463/563 TRANSPORTATION PLANNING

3 credits Prerequisite: 361. Theory and techniques for development, analysis and evaluation of transporta-tion system plans. Emphasis on understanding and using tools and professional methods available to solve transportation planning problems, especially in urban areas.

464/564 HIGHWAY DESIGN

Prerequisite: 361. Study of modern design of geometrical and pavement features of highways. Design problem and computer use. Graduate students will produce a more complete design.

465/565 PAVEMENT ENGINEERING

Prerequisite: 361. Theories of elasticity, of viscoelasticity and of layered systems as applied to pavements. Pavement materials characterization; pavement design, pavement restoration for rigid and flexible pavements.

466/566 TRAFFIC ENGINEERING

3 credits Prerequisite: 361. Vehicle and urban travel characteristics, traffic flow theory, traffic studies, accidents and safety, traffic signs and marking, traffic signal planning, traffic control and transportation administration.

467 ADVANCED HIGHWAY DESIGN

3 credits Prerequisites: 464, autoCAD capability, or permission. Computer-aided geometrical design of highways including survey data input, digital terrain modeling, cross-section templates, horizontal and vertical roadway design, earthwork computations, and advanced topics.

468/568 HIGHWAY MATERIALS

3 credits Prerequisites: 361, 380 or permission. Properties of aggregates, manufacture and properties of portland cement concrete, properties of asphaltic materials, design and testing of hot mix asphalt pevernent mixes and of surface treatments. Laboratory preparation of specimens and determina-tion of properties. Graduate student requirement: Graduate students will be required to perform an additional eight-hour asphalt laboratory (Abson recovery of asphalt from solution) and to prepare a paper on a highway materials topic.

CONSTRUCTION ADMINISTRATION Prerequisite: senior standing or permission. Organization for construction, construction contracts, estimating, bidding, bonds and insurance. Construction financial management and supervision of

construction, scheduling using critical path method. 472 CONSTRUCTION ENGINEERING 3 credits Prerequisite: senior standing or permission. Construction equipment selection and management. Techniques of various engineering construction operations including blasting, tunneling, concrete framework and dewatering.

473 CONSTRUCTION MATERIALS

2 credits Prerequisites: 380, 4200:305. Composition, structure and mechanical behavior of structural materials such as concrete, wood, masonry, plastics and composite materials. Discussion of applications and principles of evaluating material properties.

474/574 UNDERGROUND CONSTRUCTION

Prerequisite: 314. Description of practices and techniques of underground construction. Selection of proper method for individual job. Design of underground openings, support systems and linings.

480 RELIABILITY-BASED DESIGN

3 credits Prerequisite: 3470:261 and senior standing. Probability concepts in civil engineering. Risk analysis and reliability based design.

CIVIL ENGINEERING SYSTEMS

Prerequisite: senior standing. Systems approach to civil engineering problems. Mathematical programming; project planning, scheduling and cost analysis; basic operations research methods; decision analysis. Management of engineering design of complex civil engineering projects.

482 SPECIAL PROJECTS

Prerequisites: senior standing and permission. Directed individual or group research or study in student's field of interest. Topic subject to approval by adviser.

SENIOR DESIGN

Prerequisites: senior standing. A civil engineering design project that emphasizes interdisciplinary tearnwork to solve a substantial, currently relevant problem.

HONORS PROJECT 497 1-3 credits (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program Individual creative project or design relevant to civil engineering, supervised by faculty member of tha department

ELECTRICAL ENGINEERING 4400:

- 101 TOOLS FOR ELECTRICAL AND COMPUTER ENGINEERING 3 credit Corequisite: 3450:221 or 149. Orientation to degree programs and design practice in electrical and computer engineering and in computer science. Introduction to computer applications and resources for engineering studies.
- 231 CIRCUITS I 3 credits Prerequisite: 3650:291; corequisite: 3450:223. Fundamentals of circuit analysis including loop and nodal methods, phasor techniques, resonance, polyphase circuits and magnetic coupling
- SWITCHING AND LOGIC 4 credits Prerequisites: 231. Corequisite: 340. Analysis of computer circuits. Introduction to use of Boolean algebra and mapping techniques in analyzing switching circuits. Sequential circuits.

320 BASIC ELECTRICAL ENGINEERING

Prerequisite: junior standing in engineering; corequisite: 3450:335. Covers fundamental aspects of electrical circuits, electronics and electrical machinery. Not open to an electrical engineering major.

- 332 CIRCLETS II 3 credits Prerequisite: 231; corequisite: 3450:335. Network theorems, Fourier methods, transfer functions. Laplace and Fourier transforms and their use in analyzing dynamic operation of circuits.
- **ACTIVE CIRCUITS** 334 3 credits Prerequisite: 343. Applications of operational amplifiers including bilinear transfer functions, scaling, cascade design, biquad circuits, lowpass, high pass, bandpass-filters, Butterworth and Chebyshey response, sensitivity, delay filters, frequency transformations, ladder design, simulated element design, leapfrog simulation and switched-capacitors.

ELECTRIC CIRCUITS LABORATORY 2 credits Prerequisite: 231. To develop practical skills in electronic circuits. Experiments will involve analysis and measurement of circuits which will illustrate circuit theory concepts.

COMMUNICATIONS AND SIGNAL PROCESSING 3 credits 341 Prerequisite: 263, 343. Introduces analog and digital communication systems and signal pro-cessing. Time-sampling and filtering. Modulation and demodulation techniques. Noise and bandwidth requirements. System design and performance analysis.

343 SIGNALS AND SYSTEMS

Prerequisites: 3450:335 and 4400:231. Linear systems theory and transform analysis techniques for continuous and discrete systems. Convolutions, Laplace transforms, continuous and discrete Fourier transforms. Difference equations and Z transforms.

353 ELECTROMAGNETICS I

Prerequisite: 231, 3450:223 or permission. Vector analysis. Electrostatics: electrostatic field, scalar potential, dielectrics, boundary-value problems. Magnetostatics: magnetic circuits. Maxwell's equations: Faraday's law, time-harmonic fields. Introduction to plane waves.

354 ELECTROMAGNETICS II

3 credits Prerequisite: 353. Theory and application of transmission lines: transient and steady-state waves. Plane EM waves: propagation, reflection, and refraction. Waveguides open and closed-boundary guiding structures.

PHYSICAL ELECTRONICS

3 credits Prerequisite: 263, 332. PN junction, diffusion, tunneling, FET and BJT device physics, equivalent circuits for electronic devices, time and frequency analysis, biasing and logic families.

ELECTRONIC DESIGN 361

Prerequisites: 343, 360. Power amplification, feedback, oscillators, linear integrated circuits, modulation and demodulation circuits.

CONTROL SYSTEMS I 371

4 credits Prerequisite: 343. Introduction to servomechanisms and feedback. Modeling and response of feedback control systems. Stability of linear systems. Experiments include analog simulation and basic servomechanism.

381 ENERGY CONVERSION

3 credits rerequisites: 332. Corequisite: 353. Nonelectrical to electrical energy conversions and vice versa: thermal, chemical, solar. Fundamentals of electromechanical energy conversion. Principles of operation of transformers, commutator machines, induction and synchronous machines.

385 ENERGY CONVERSION LAB

Prerequisite: 381. Theoretical background and practical skills in machines measurements. Steady and transient states in transformers and machines recording and analysis. External characteristics of sources.

2 credits

1-3 credits

3 credits

3 credits

3 credits

4 credits

3 credits

2 credits

3 credits

391 PROBLEMS

2 credits

2 credits

1-3 credits

3 credits

4 credits

4 credits

4 credits

(May be taken more than once) Prerequisite: permission of department head. Select comprehensive problems, supervised discussions and computation periods.

401 SENIOR PROJECT I

2 credits Prerequisites: senior standing. Design and preparation phase of an engineering project. Requires project presentation, approval of a written proposal, and ordering of required parts.

402 SENIOR PROJECT II 3 credits Prerequisite: 401. Implementation and evaluation phases of an engineering design project. Requires a project presentation and report.

447 RANDOM SIGNALS

3 credits Prerequisite: 343. Applications of set theory, discrete and continuous sample spaces; probability, random variables, distribution functions, density functions, stochastic processes, random signals, system function, power spectrum and correlation functions.

449/549 DIGITAL COMMUNICATION

Prerequisite: 341. Introduction to digital communication theory and systems; coding of analog and digital information; digital modulation techniques. Introduction to information theory.

ELECTROMAGNETIC COMPATIBILITY 3 credits Prerequisite: 360. Introduction to electromagnetics, electromagnetic compatibility, crosstalk and effects on computers, communication lines and systems.

453/553 ANTENINA THEORY

Prerequisite: 354. Theory of EM radiation. Wire antennas, arrays, receiving antennas, reciprocity. Integral equations for induced currents, self and mutual impedances. Equivalence principle, radiation from aperture antennas.

455/555 MICROWAVES

4 credits Prerequisite: 354. Dynamic fields, Maxwell's equation and wave equations. Field analysis of wave auides, microwave components, techniques and systems,

WIRELESS COMMUNICATIONS 3 credits

Theory and analysis of wireless communication systems, wireless propagation, multiple access, modulation, demodulation, multipath channel characterization, diversity, cellular and PCS services and standards.

465/565 PROGRAMMABLE LOGIC

Prerequisite: 263. Digital design with programmable devices. PLD and FPGA architectures. Logic design and technology mapping tools.

470 MICROPROCESSOR INTERFACING 3 credits Prerequisites: 360, 263, 4450:208, Microprocessor structure, Bus Interface, Digital controller devices and their relationship to both the microcomputer and physical environment.

472/572 CONTROL SYSTEMS II

Prerequisite: 371. Sampled-data control system analysis and design. Discrete-time representation of sampled-data systems. Cascade, feedforward and state-variable compensation techniques. Digital computer implementation.

Prerequisite: 381. Introduction to electricity utility load flow, faulty analysis, stability, surge protection and relaying.

3 credits Prerequisite: 332. Steady-state analysis and design of power electronic converters: AC/DC converters (rectifiers), DC/DC converters, DC/AC PWM and resonant converters, AC/AC converters and cvcloconverters

Prerequisite: 483/583 or equivalent. Experiments on different types of power electronic converters: AC/DC, DC/DC, DC/AC, and AC/AC. Design project to include design, simulation, building, and testing of a power electronic circuit.

of power semiconductor circuits in electric machinery.

1-3 credits (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. Individual creative project or design relevant to electrical engineering, supervised by faculty mem-

498/598 TOPICS IN ELECTRICAL ENGINEERING 1-2 credits (May be taken more than once) Prerequisite: permission of department head. Special topics in electrical engineering.

COMPUTER ENGINEERING

4450:

208 PROGRAMMING FOR ENGINEERS

- 3 credits Prerequisite: 4400:101 or permission. Introduction to programming. Environment and tools. C programming language. Machine level data forms and organization.
- **COMPUTER SYSTEMS** 3 credits Prerequisite: 208 or 3460:209 and 3450:208. Introduces the design and architecture of modern computer systems. Data and instruction representation. Conventional computer organization. Hardware and software design processes. The hardware/software interface.

MODERN POWER SYSTEMS

483/583 POWER ELECTRONICS |

484/584 POWER ELECTRONICS LABORATORY AND DESIGN PROJECT

4 credits 485/585 ELECTRIC MOTOR DRIVES

Prerequisite: 381. Application of electric machines, choice of motor for particular drive. Application

HONORS PROJECT

ber of the department

- 370 VLSI DESIGN 3 credits Prerequisite: 4400:360, 465.Use of VSLI design environments in the development of large digital systems. Schematic capture, simulation and verification. Integration of standard building blocks. Design project.
- 375 OPERATING SYSTEMS CONCEPTS 3 credits Prerequisites: 330, 3460:316 and 4400:263. Modern computer system design. Application of concepts of process management, memory management, file systems, VO systems, protection and security. Distributed and network operating systems.
- 410 COMPUTER METHODS 3 credits Prerequisites: 208 and senior standing. Numerical modeling for embedded scientific applications. Accuracy with fixed and floating point systems. Analysis of complexity. Distributed processing. Object-oriented packaging in C++.

420/520 OBJECT ORIENTED DESIGN

Prerequisites: 208 or equivalent. Investigation of object-oriented design paradigm and the design implementation with the object-oriented programming language C++.

3 credits

1-2 credits

3 credits

2 credits

- 432 SYSTEM SIMULATION 3 credits rerequisite: 410 and 4400:371. Simulation of continuous systems on a digital computer. Methods and tools for linear, nonlinear, and chaotic systems.
- EXPERT SYSTEMS DESIGN AND DEVELOPMENT 3 credits Prerequisite: Senior standing or permission. Introduction to the design and development of expert systems.
- 442 KNOWI EDGE ENGINEERING 3 credits Prerequisite: 441 or equivalent. Study of knowledge acquisition and expert system project management.
- 443 FRAME-RASED EXPERT SYSTEM DESIGN 3 credits Prerequisite: permission. Introduction to the design and development of frame-based expert systems.
- 444 FUZZY LOGIC EXPERT SYSTEM DESIGN 3 credits Prerequisite: permission. Introduction to the design and development of fuzzy logic expert systems.
- 470/570 VLSI CIRCUITS AND SYSTEMS 3 credits Prerequisite: 370. Advanced VLSI design. MOSFET structures, design rules and fabrication. Static, dynamic CMOS. PLAs, ROMs and RAMs. Layout methodologies and tools. System architecture.
- ADVANCED PROCESSOR DESIGN 3 credits Prerequisite: 3460:465 Design of advanced processors at the microarchitecture level. Extraction
- and exploitation of instruction level parallelism. Superscalar and superpipelined VLIW processors. Compilation techniques.
- 495 DESIGN PROJECT | 2 credits Prerequisite: senior standing. Specification and design of a computer engineering project. Requires project presentation, approval of a written design document, and ordering of required parts.
- **DESIGN PROJECT II**

3 credits Prerequisite: 495 Implementation phases of the engineering design project. Student teams carry out detailed design, implementation and testing, then demonstrate their project. A final report is required.

497/597 SPECIAL TOPICS: COMPUTER ENGINEERING

(May be taken more than once) Prerequisite: permission of department chair. Special topics in computer engineering.

MECHANICAL ENGINEERING 4600:

165 TOOLS FOR MECHANICAL ENGINEERING

3 credits Corequisite: 3450:149. Personal computer DOS system, word processing, spreadsheet, computer-aided drafting, math calculating package, mechanical graphics, and introduction to mechanical engineering program and curriculum

203 DYNAMICS

3 credits Prerequisite: 3450:222, 3650:291, 4300:201. Corequisite: 3450:223. Kinematics and kinetics of particles and rigid bodies. Principles of work, energy, momentum and impulse.

300 THERMODYNAMICS I

4 credits Prerequisite: 3450:223. Corequisite: 3650:292. Basic concepts of thermodynamics. The pure substance, the system and first and second laws of thermodynamics. Entropy, availability, power cycles.

THERMODYNAMICS II 301

Prerequisites: 300, 310 and 3450:335. Thermodynamics of state, gas mixtures and gas-vapor mixtures. Combustion. Thermodynamics of gas flow.

305 THERMAL SCIENCE

Prerequisite: 3450:223. Corequisite: 3650:292. Credit not allowed for both 300 and 305. Introduction to first and second laws of thermodynamics, perfect gas relationships, equations of state, cycle analysis. Introduction to conduction, convection and radiation heat transfer

310 FLUID MECHANICS 3 credits Prerequisite: 203 and 3450:335. Properties and behavior of gases and liquids at rest and in motion. Energy equation, Flow in conduits. Forces on body submerged in moving fluid. Dimensional analysis and similitude.

315 HEAT TRANSFER

3 credits Prerequisites: 310 or 4800:360; 4600:300, 360 . Fundamentals of heat transfer by conduction, convection and radiation.

321 KINEMATICS OF MACHINES

3 credits Prerequisites: 165, 203. Displacements, velocities, accelerations and introduction to plan motion mechanisms. Introduction to design of gears, gear trains and cams.

- 336 ANALYSIS OF MECHANICAL COMPONENTS 3 credits Prerequisite: 4300:202. Corequisite: 3450:335. Analysis of stress and strain at a point. Mohr's circles, shear centers, elastic instability. Stresses in thick and thin cylinders. Fatigue analysis.
- 337 DESIGN OF MECHANICAL COMPONENTS 3 credits Prerequisites: 336. Application of stress analysis to design of fasteners, welds, springs, bell bearings and gears. Introduction to journal bearings and lubrication. Component design projects.
- 340 SYSTEMS DYNAMICS AND RESPONSE 3 credits Prerequisites: 203, 3450:335. A unified approach to modeling, analysis, response and stability of engineering systems: analog, digital and hybrid computer simulation of interdisciplinary engineering problems are included.
- 360 ENGINEERING ANALYSIS 3 credits Prerequisite: 3450:335. Numerical methods of solution of mechanical engineering problems.
- 380 MECHANICAL METALLURGY 2 credits Prerequisite: 3150:153, 4300:202. Structures of common metallic materials and study of their macroscopic mechanical behavior. Phase changes and heat treatment. Theories of failure
- 400/500 THERMAL SYSTEM COMPONENTS 3 credits Prerequisites: 301, 310, 315 or permission. Performance analysis and design of basic components of thermal energy exchange and conversion systems. Components studied include heat exchangers, pumps, compressors, turbines and expansion engines.
- 401 DESIGN OF ENERGY SYSTEMS 2 credits Corequisites: 400, 441, 460. Analysis and design of systems for energy exchange. Performance of energy system components and their integration into complex practical systems. Design project required.
- 410/510 HEATING AND AIR CONDITIONING 3 credits Prerequisites: 301 or permission. Corequisite: 315 or permission. Thermodynamics of gas mix-tures. Design and selection of air conditioning equipment. Control of gas mixtures, heating, cooling and humidity.

411/511 COMPRESSIBLE FLUID MECHANICS 3 credits

Prerequisites: 301 or permission. Subsonic and supersonic flow in nozzles, diffusers and ducts. One-dimensional reactive gas dynamics. Prandtl-Myer theory. Applications to design and analysis of compressors, turbines and propulsion devices.

412/512 FUNDAMENTALS OF FLIGHT

3 credits Prerequisite: 310 or permission. Introduction to basic aerodynamics, airplane performance, stability and control, astronautics and propulsion. Design considerations are emphasized.

413/513 INTRODUCTION TO AERODYNAMICS 3 credits

Prerequisite: 310. Introduction of aerodynamic concepts; includes conformal transformations, theory of thin airfoils, two-dimensional airfoil theory, wings of finite span, lifting line theories, lumped vortex, vortex lattice, and panel methods.

414/514 INTRODUCTION TO AEROSPACE PROPULSION 3 credits Prerequisite: 310. Introduction to propulsion systems currently used in aerospace fields; propulsion principles for turbojets, turbofans, ramjets, chemical rockets, and electrical rocket propulsion.

415/515 ENERGY CONVERSION 3 credits Prerequisites: 301 or permission. Corequisite: 315 or permission. Topics from fields of internal combustion engines, cycle analysis, modern conversion devices.

416/516 HEAT TRANSFER PROCESSES 3 credits

Prerequisite: 315 or permission. Analysis, design of extended surfaces. Natural convection and mixed convection, combined modes of heat transfer and heat transfer with phase changes. 420 INTRODUCTION TO FINITE ELEMENT METHOD 3 credits Prerequisite: 315 and 4300:202. Introduction to matrix and finite element methods. Stiffness and flexibility formulations in solid mechanics and thermal sciences. Basic finite element methods and its implementation.

422/522 EXPERIMENTAL STRESS ANALYSIS I

3 credits Prerequisite: 336 or permission. Experimental methods of determining stress or strain; brittle lacquer, strain gages, photoelasticity, full field techniques.

430/530 MACHINE DYNAMICS 3 credits

Prerequisite: 321 or permission. Static and dynamic forces in machines, products of inertia, dynamic equivalence, flywheels. Balancing of rotating, reciprocating, cyclic plane motion. Computer simulation of transient mechanism dynamics, other topics in advanced dynamics.

3 credits

3 credits

3 credits

3 credits

3 credits

431/531 FUNDAMENTALS OF MECHANICAL VIBRATIONS

Prerequisites: 203 or permission and 3450:335 or permission. Undamped and forced vibrations of systems having one or two degrees of freedom.

432/532 VEHICLE DYNAMICS

Prerequisites: 203 or permission and 3450:335 or permission. Application of dynamic systems analysis techniques to road vehicles. Newtonian and Lagrangian methods. Tire/road interface. Ride characteristics, handling and stability, Digital simulation,

441/541 CONTROL SYSTEMS DESIGN

Prerequisites: 340 or permission. Methods of feedback control design such as minimized error. root-locus, frequency domain. Compensation techniques. Multivariable and nonlinear design methods and computer-aided control design.

442/542 INDUSTRIAL AUTOMATIC CONTROL

Prerequisite: 441 or permission. Operation of basic control mechanisms. Study of mechanical, hydraulic, pneumatic, fluidic control systems, including application areas. Tuning of control devices for optimum performance of system. Case studies on control applications from industry, e.g. boilers, fumaces, process heaters.

443/543 OPTIMIZATION METHODS IN MECHANICAL ENGINEERING

3 credits Prerequisite: 360 or permission. Development and method of solution of optimization problems in mechanical engineering. The use of dynamic programming and operational research methods for optimization including computer utilization and applications

444/544 ROBOT DESIGN, CONTROL AND APPLICATION

Prerequisites: 321 or permission, 441 or permission. Robot design and control. Knematic transfor-mations, velocities and accelerations, path trajectories and dynamics, control and sensing in robotics. The automated factory with robot applications.

450/550 INTRODUCTION TO COMPUTATIONAL FLUID FLOW AND CONVECTION 3 credits

Prerequisites; 315 or permission, 360 or permission. Numerical modeling of fluid/thermal systems: numerical solution of the momentum and thermal boundary layer equations; flow simulation using advanced heat transfer/fluid/graphics packages

460 CONCEPTS OF DESIGN

Prerequisite: 337. Design process. Creativity and inventiveness. Tools of decision making, engineering economics, reliability, optimization. Case studies.

461 DESIGN OF MECHANICAL SYSTEMS

Corequisites: 441, 460. Detailed mechanical design project and case studies.

462/562 PRESSURE VESSEL DESIGN 3 credits Prerequisite: 336 or permission. Introduction to modern pressure vessel technology. Topics include basic structural considerations, materials and their environment and design- construction features.

483/563 COMPUTER AIDED DESIGN AND MANUFACTURING 3 credits Prerequisites: 165 or permission, 360 or permission. The use of computer systems to assist in the creation, modification, analysis, or optimization of engineering designs, and to plan, manage, and

control manufacturing plants. MECHANICAL ENGINEERING MEASUREMENTS LABORATORY 483

Prerequisites: 300, 310. Corequisite: 340. Development of methods to measure temperature, pressure, flow rate, viscosity and motion. Includes both lecture and laboratory experience and emphasizes calibration and accuracy of appropriate instruments.

484 MECHANICAL ENGINEERING LABORATORY

Prerequisite: 301, 315, 380, 431, 483. Corequisites: 441. Laboratory experiments in area of dynamics, vibrations, thermodynamics, fluids, heat transfer and controls.

SPECIAL TOPICS

Prerequisite: permission. Brief description of current content to be announced in schedule of classes. HONORS PROJECT 1-2 credits

Prerequisite: senior standing in Honors Program. Individual creative project in thermal science, mechanics or design relevant to mechanical engineering, supervised by faculty member of the department.

498 EXPERIMENTAL INVESTIGATION IN 1-2 credits MECHANICAL ENGINEERING

Individual independent laboratory investigations in areas relevant to mechanical engineering. Student suggests a project and makes appropriate arrangements with faculty for supervision.

MECHANICAL POLYMER ENGINEERING

4700:

281 POLYMER SCIENCE FOR ENGINEERS

Prerequisites: 3150:151 and 3150:152. Chemical bonds and structure of organic molecules. polymer chain structure, amorphous and crystalline morphology and structural characterization, polymerization and copolymerization, experimental demonstrations, typical solid-state and flow properties.

321 POLYMER FLUID MECHANICS 3 Credits Prerequisite: 4600:310 or equivalent. Rheological properties and flow characteristics of polymer fluid systems; non-Newtonian viscosity, viscoelasticity.

POLYMER MORPHOLOGY FOR ENGINEERS 3 Credits 381 Prerequisites: 3150:151, 3650:292, 4600:380 or permission. Fundamental understanding of solid structure, crystallography and morphology, processed polymers, co-polymers and their blends.

- 422 POLYMER PROCESSING 3 Credits rerequisites: 321 and 4600:315 or equivalent. Polymer processing technology. Basic studies of flow in extrusion, molding, and other processing methods.
- 425 INTRODUCTION TO BLENDING AND COMPOUNDING OF POLYMERS 3 credits Prerequisites: 4200:321 or 4300:341 or 4600:310 or permission. Nature of polymer blends and compounds and their applications. Preparation and technology using batch and continuous mixers, mixing mechanisms

427 MOLD DESIGN

3 credits rerequisites: 422 or permission. Molding methods to manufacture polymeric products. Machinery, materials, molds, equipment, computer-aided design.

ENGINEERING PROPERTIES OF POLYMERS Prerequisites; 4700:281, 4700:381 and 4600:336 or equivalent. Introductory course to engineering properties and processing of polymers. Analysis of mechanical tests of polymers in the glassy, rub-

bery, and fluid states. Product design. Concepts of rheology, rheometry and polymer processing. POLYMER ENGINEERING LABORATORY 451

Prerequisite: 321 and 4600:483. Corequisite: 422 or permission. Laboratory experiments on the rheological characterization of polymer melts, fabrication of engineering products, structural investigation of polymeric parts.

POLYMER ENGINEERING PROJECT 499

Prerequisite: Senior standing and permission. Special topics intended for undergraduate seniors in polymer engineering.

BIOMEDICAL ENGINEERING

4800:

3 credits

2 credits

2 credits

2 credits

1-3 credits

2 Credits

3 credits

1-3 credits

- 101 TOOLS FOR BIOMEDICAL ENGINEERING 3 credits Corequisite: 3450:149. Introduction to Biomedical Engineering. Personal computers, word processing, spreadsheets, mathematical computational software and computer aided drafting.
- 111 INTRODUCTION TO BIOMEDICAL ENGINEERING DESIGN 2 credits Prerequisites: 101 or permission. Students will be introduced to the interdisciplinary nature of Biomedical Engineering research and design through the use of lectures, discussions, homework and design projects.
- 305 INTRODUCTION TO BIOPHYSICAL MEASUREMENTS
 - Prerequisites: 101 and 3650:292 or 4400:230 or 4400:320. Corequisites: 3100:209 and 4800:101. Biomedical Engineering involves measurement of Physiological processes in living organisms. An understanding of the variety of instruments used and the limitations are introduced.

3 credits

3 credits

- 310 MODELING AND SIMULATION OF BIOMEDICAL SYSTEMS 3 credits Prerequisite: 3450:335. Modeling and simulation of physiological systems and their interactions with therapeutic devices, such as the artificial kidney.
- 325 DESIGN OF MEDICAL DEVICES 3 credits Prerequisites: Junior/senior standing in the College of Engineering, the College of Polymer Science and Engineering or the College of Arts and Sciences. Design of Medical Devices, design criteria, human factors, patient care and monitoring devices, surgical devices, bench testing and legal liability.

360 BIOFLUID MECHANICS 3 credits Prerequisites: 3450:335, 3150:133, 3650:292, and 4600:203. Introduction to the fundame of fluid mechanics and their application to biological, cardiovascular, respiratory and other biofluid systems

365 MECHANICS OF BIOLOGICAL TISSUES 3 credits Prerequisites: 4300:202 and 3450:335. The mechanical properties of musculoskeletal tissues are presented along with modeling techniques and testing procedures. Tendons, ligaments, muscles, cartilage and bone will be addressed.

370 BIOMECHANICS OF HUMAN MOVEMENT

3 credits Prerequisites: 3100:202 and 4600:203. The application of engineering mechanics and anatomy to study and analyze human movement. Lectures and in-class labs will introduce students to experimental and theoretical techniques.

400 BIOMATERIALS

Prerequisite: 4200:305. Properties of Materials used in medicine and their interaction with biological materials will be discussed. Biocompatibility issues, material degradation, biomaterials testing will also be discussed.

420 BIOMEDICAL SIGNAL AND IMAGE PROCESSING 3 medits

Prerequisites: 4400:343. Introduction to the basic problems associated with biological signal and image processing applications, and appropriate approaches to dealing with them.

430/530 DESIGN OF MEDICAL IMAGING SYSTEMS 3 credits Prerequisites: 3100: 200, 3650:292, 4400:343,353, 4800:305, or permission of instructor Physical principles and engineering design of medical imaging systems, with emphasis on digital radiography, computed tomography, nuclear medicine, ultrasound and magnetic resonance.

- 435/535 IMAGE SCIENCE 3 credits Prerequisites: 3100:200, 3650:292, 4400:343 or by permission of instructor. Principles of image science, image performance parameters and image assessment techniques of medical imaging systems, with emphasis on digital radiography, tomographic imaging, ultrasound and magnetic resonance.
- 437/537 PHYSICS OF MEDICAL IMAGING 3 credits Prerequisites: 3100:200, 3650:292, 4400:353, 4800:305. Physical principles of medical imaging

modalities with emphasis on the properties, generation mechanisms and interaction of radiation with matter, physics of the image formation and optimization.

- 460/560 EXPERIMENTAL TECHNIQUES IN BIOMECHANICS 3 credits Prerequisites: 3150:153, 3450:335, 3650:292, 4600:203 or by permission of instructor, Principles of testing and measuring devices commonly used for biofluid and biosolid mechanics studies. Laboratories for demonstration and hands-on experience.
- 485 SPECIAL TOPICS IN BIOMEDICAL ENGINEERING 1-3 credits Prerequisite: permission of advisor. Directed individual or group research or study in the student's field of interest. Topic subject to approval of advisor.

491 BIOMEDICAL ENGINEERING DESIGN I 2 credits Prerequisites: 111 and 310. Corequisite: 305. The design process will be further discussed utiliz-ing case studies and detailed biomedical engineering design projects.

492 BIOMEDICAL ENGINEERING DESIGN II 2 credits Prerequisites: 111, 305, 310, 491. The design process will be further discussed utilizing detailed biomedical engineering design projects. Projects will be required to be interdisciplinary in nature.

College of Education

COOPERATIVE EDUCATION

5000:

301 COOPERATIVE EDUCATION

(May be repeated) For cooperative education students only. Work experience in business, indus try or governmental agency. Comprehensive performance evaluation and written report required.

0 credits

EDUCATIONAL FOUNDATIONS AND LEADERSHIP

5100:

150 DEMOCRACY AND EDUCATION

3 credits Based on an interdisciplinary inquiry, this course examines varied theories and practices of democratic education.

- FUNDAMENTAL EDUCATIONAL COMPUTER SKILLS 1 credit Elective Course: Computer Skills for education majors with little or no computer experience. Includes word processing, databases, graphics and communications. Cannot substitute for any required course.
- 210 CHARACTERISTICS OF LEARNERS 3 credits Prerequisite: Completion of all College of Education program admission requirements; Corequisite: 211. Describe cognitive, psychosocial, physical, language, and moral development of learners Pre-K through adult. Identifies learner needs, roles of teachers and schools in fostering optimal development. (10 hours of field experience included.)
- 211 TEACHING AND LEARNING STRATEGIES 3 credits Prerequisite: Completion of all College of Education admission requirements; Corequisite: 210. From course content and activities, students will recognize, select, and practice various instruction al models. Students will acquire and apply appropriate learning and motivational strategies. (10 hours of field experience included.)
- 258 SMALL GROUP INSTRUCTION 1-3 credits (May be repeated for a total of three credits) Prerequisites: 250 and 3750:100 or equivalent and permission of instructor. Study of student-centered group leadership skills for facilitating classroom cognitive learning. Student exposed to basic literature related to student-centered style, trained in appropriate observational techniques and provided practice in leading small instructional groups.
- 320 LEARNING AND INDIVIDUALIZED INSTRUCTION 2 credits Prerequisite: 250. Behavioral approach to learning and the management of students. Emphasizes design of instructional sequences using behavioral analysis of objectives in both cognitive and psychomotor domains.
- 330 EARLY ADOLESCENT LEARNER

Study of issues in adolescent development, particularly as it relates to educational settings Physical, cognitive, language, emotional, social, and moral development in learners 8-14 years old.

- 410 PROFESSIONAL ISSUES IN EDUCATION 3 credits Prerequisites: 5050:310, 5050:311, 5050:320, 5050:330. Course work applies social and philosophical foundations of education to current and historical issues in education with attention to roles and responsibilities of contemporary teachers.

412/512 DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS

3 credits (20 clinical hours) Design, adaptation, and preparation of instructional materials using graphics, transparency production, video equipment, computer authoring software, mounting and laminating processes, photography, and other procedures

- 414/514 ORGANIZING AND SUPERVISING EDUCATIONAL MEDIA PROGRAMS 3 credits Prerequisite: 310 or permission of the instructor. Procedures for planning, organizing and evaluating educational media programs including media facilities and services.
- 420/520 INTRODUCTION TO INSTRUCTIONAL COMPUTING 3 credits Examines use of wordprocessing, spread sheets, databases, graphics, telecommunications and authoring software in both educational and business settings and evaluates instructional and applications software
- SENIOR HONORS PROJECT: FOUNDATIONS 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and sustained inquiry.
- 480 SPECIAL TOPICS: EDUCATIONAL FOUNDATIONS 1-4 credits (May be repeated with a change in topic) Prerequisite: permission of instructor. Group study of special topics of critical, contemporary concern in professional education.
- 490,1,2/590,1,2 WORKSHOP 1-3 credits each Individual work under staff guidance on curriculum problems, utilization of community resources, planning of curriculum units.

494/594 EDUCATIONAL INSTITUTES 1-4 credits Special course designed as in-service upgrading programs.

497 INDEPENDENT STUDY

1-3 credits (May be repeated for a total of six credits) Prerequisites: permission of department head and instructor. Specific area of study determined in accordance with program and professional goals.

ELEMENTARY EDUCATION 5200:

- 200 PRE-KINDERGARTEN PARTICIPATION I 1 credit (30 field hours) Prerequisite: 7400:265, 2200:245. Planned field experience in a pre-kindergarten infant/toddler classroom where students work with children age birth to 3 years both individually and in small groups.
- 215 THE CHILD, THE FAMILY, AND THE SCHOOL 2 credits (20 clinical/field hours) Prerequisite: 5100:210, 211, admission to Teacher Education Program. Social, emotional, cognitive, physical, moral development of elementary and middle school children. Influence, interaction of home, family, peers, and school on the development of children.
- 220 VISUAL ARTS CULTURE IN THE ELEMENTARY SCHOOL 1 credit Art education concepts, structures, and knowledge base to provide curricular opportunities for education majors to develop as creative problem solvers in an elementary school setting. First offered Fall 1993.
- 225 EARLY CHILDHOOD FIELD EXPERIENCE I Prerequisite: admission to Teacher Education Program and instructor permission. Planed field experience emphasizing field settings where the student works with small groups of children in an urban early childhood classroom.
- 250 DEVELOPING PROCESSES OF INVESTIGATION 3 credits Prerequisites: 5100:210, 211, admission to Teacher Education Program. This course will enable students to identify and acquire those investigative and discovery processes and skills that are common in mathematics, science, and social studies.
- 300 PRE-KINDERGARTEN-PARTICIPATION II 1 credit (30 field hours) Prerequisite: 200, 5610:450 and admission to Teacher Education Program. Planned field experience in pre-kindergarten early intervention program where student works in both small and large group settings and with individual children.
- 310 INTRODUCTION TO EARLY CHILDHOOD EDUCATION 3 credits (10 clinical hours) Prerequisite: 7400:265. Provides the student with background information on who is serviced, types of programs available, role of the adults and goals of early childhood education.
- 315 ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 credits (10 clinical hours) Prerequisite: 7400:265. In-depth examination of issues impacting on children from birth to kindergarten, their families and the early childhood three to grade three educational process.
- 316 KINDERGARTEN CURRICULUM AND INSTRUCTION 4 credits Prerequisite: 7400:265, 5100:210 and 211, admission to Teacher Education Program. Developmentally appropriate curriculum for five- and six-year old children will be explored. The educational, social and political issues impacting kindergarten programming will be identified.
- 320 VISUAL ARTS APPLICATION IN THE ELEMENTARY SCHOOL 3 credits Prerequisite: 5200:220, Exploration of materials, methods, processes and visual techniques relating two and three-dimensional art experiences for the teacher of elementary children.
- 321 INSTRUCTIONAL TECHNIQUES: MODERN LANGUAGES -- K-8 3 credits Focus on theories of language acquisition, models of instruction suited to teaching foreign languages and cultures in the elementary school (K-8), and strategies that promote appropriate levels of language proficiency and competency for young learners.
- 330 KINDERGARTEN POLICIES, ISSUES, AND TRENDS 4 credits (20 clinical/field hours) Prerequisite: 7400:265. In-depth examination of policies, issues, and trends influencing kindergarten children, their families, and the kindergarten educational process. This course is not part of the new teacher licensure program.
- 331 KINDERGARTEN METHODS AND MATERIAL 4 credits (20 clinical/field hours) Prerequisites: 330 and 7400.265. Scope and sequence of kindergarten curricula, with emphasis on developmentally appropriate methods and materials. This course is not part of the new teacher licensure program.
- 333 TEACHING SCIENCE TO THE EARLY CHILDHOOD LEVEL 3 credits Prerequisites: 5050:310, 311 or instructor permission. Development of a point of view toward science teaching and study of methods of presenting science material.
- 334 TEACHING ART IN THE ELEMENTARY SCHOOL 3 credits Prerequisite: Admission to Teacher Education Program, Art K-12. Visual arts in elementary schools. Art education concepts with studio orientation including history of art education, developmental stages, curriculum and organization, methods, evaluation and research, and practical participation.
- 336 TEACHING OF ELEMENTARY SCHOOL MATHEMATICS I 3 credits Prerequisite: 5100:250. Trends in instruction in elementary schools. Procedures for development of mathematical concepts and skills.
- TEACHING OF SOCIAL STUDIES TO YOUNG CHILDREN 3 credits Prerequisites: 5050:310, 311 or instructor permission; admission to Teacher Education Program. Trends in social studies instruction in early childhood/middle level classrooms will be discussed as well as varied means of implementing programs.
- 342 TEACHING MATH TO YOUNG CHILDREN 3 credits Prerequisites: 5050:310, 311 or instructor permission; admission to Teacher Education Program. Trends in mathematics instruction in early childhood/middle level classrooms. Procedures for the development of mathematics concepts and skills.
- 355 LANGUAGE AND LITERACY IN EARLY CHILDHOOD 3 credits Prerequisite: 5200:310 and 7400:265. A framework for the development of literacy from birth to age 8. Factors influencing emerging literacy will be explored. Emphasis on young children's literature
- 360 TEACHING IN THE EARLY CHILDHOOD CENTER 2 credits (10 clinical hours) Prerequisite: 7400:280, 270. Corequisite: 370. Assists students with the integration of knowledge, skills, attitudes and values learned in the pre-kindergarten program as they participate with young
- 365 COMPREHENSIVE MUSICIANSHIP FOR EARLY CHILDHOOD 3 credits Prerequisite: admission to the Teacher Education Program. Designed to afford a prospective classroom teacher the opportunity to develop individual musical skills in creativity, performance, and listening as a means of enhancing teaching through use of music.

- 370 EARLY CHILDHOOD CENTER LABORATORY 2 credits (53 clinical hours) Prerequisites: 7400:280, 270. Corequisite: 360. This lab is an integrated practical experience in the University's Center for Child Development under the direction of experienced teachers!
- 395 FIELD EXPERIENCE

1-3 credits Prerequisites: permission of adviser and department head. Independent field work in area selected by student's adviser, based on student's needs.

403 STUDENT TEACHING SEMINAR

1 credit (15 clinical hours) Prerequisite: senior standing. In conjunction with Student Teaching. Synthesis of contemporary problems encountered during student teaching experience. Exchange of ideas regarding role of new teacher entering profession.

411/511 CREATIVE TECHNIQUES FOR EXPLORING CHILDREN'S LITERATURE 2 credits Prerequisite: 286. Examination of techniques for interpretation of children's literature including storytelling, creative dramatics, reader's theatre and choral speaking.

SENIOR HONORS PROJECT: EARLY CHILDHOOD

1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and ustained inquiry

435/535 ACTIVITIES TO INDIVIDUALIZE SOCIAL STUDIES

Prerequisite: 338. Development of materials and activities (learning games, simulation games, simulations, learning stations, programmed field trips and map activities) to provide teacher with variety of techniques in order to develop an individualized, student-involved social studies program.

436/536 GEOMETRY AND MEASUREMENT IN ELEMENTARY 3 credits SCHOOL MATHEMATICS

Prerequisite: 336. Trends in geometry and measurement instruction in elementary school. Procedures for development of important geometric concepts and measurement skills.

437/537 STRUCTURE OF THE NUMBER SYSTEM IN ELEMENTARY SCHOOL MATHEMATICS

Prerequisite: 336. Applied and advanced topics in mathematics education in elementary school. Thorough investigation of number system presently being taught in elementary school.

438/538 MATERIALS AND LABORATORY TECHNIQUES IN

ELEMENTARY SCHOOL MATHEMATICS Prerequisite: 336. Applied mathematics. Construction and application of mathematical models. Procedures for development of important mathematical concepts through the laboratory approach.

439/539 PROPERTIES OF NUMBERS IN ELEMENTARY SCHOOL MATHEMATICS 3 credits Prerequisite: 336. Investigation of those number properties that help explain how laws of arithmetic work. Procedures for development of important arithmetic concepts and computational skills.

440/540 CONTEMPORARY ELEMENTARY SCHOOL SCIENCE PROGRAMS

2 credits Prerequisite: 333. Contemporary elementary science programs critically analyzed and their proce-dure developed and implemented in University classroom.

450 INTEGRATED CURRICULUM APPLICATION IN THE ELEMENTARY SCHOOL 3 credits Prerequisite: admission to Teacher Education Program. Focus on the design and presentation of integrated lessons and on becoming an effective decision maker in delivering integrated, multidisciplinary instructional programs to diverse populations.

SPECIAL TOPICS: ELEMENTARY EDUCATION

1-4 credits (May be repeated with a change in topic) Prerequisite: permission of instructor. Group study of special topics of critical, contemporary concern in professional education.

2,3/590,1,2,3 WORKSHOP

Elective workshop for elementary education major who would pursue further refinement of teaching skills. Emphasizes demonstrations of teaching techniques and development of suitable teaching devices.

494/594 EDUCATIONAL INSTITUTES

pecial courses designed as in-service upgrading programs. Frequently provided with the support of national foundations.

495 STUDENT TEACHING

4-8 credits (322 field hours) Prerequisites: approved application. Planned teaching experience (in elementary school) selected and supervised by Office of Educational Field Experience.

496 STUDENT TEACHING

1-6 credits The capstone field experience for elementary education majors. Students will have two classroom experiences one primary level and one intermediate level.

INDEPENDENT STUDY

1-3 credits Prerequisites: permission of adviser and department head. Specific area of curriculum investigation pertinent to elementary education as determined by student's academic needs.

498 STUDENT TEACHING COLLOOUIUM

Coreculisite: 495. Prepares students for the final phase of becoming decision makers. The colloquium will explore problems encountered in classrooms, initiate reflective practice and concepts of action research, and focus on preparation of unit outlines with emphasis on applied decision making.

MIDDLE LEVEL

5250:

2 credits

3 credits

3 credits

1-3 credits each

1-4 credits

1 credit

- 300 MIDDLE LEVEL EDUCATION 3 credits Prerequisite: 5050: 210, 211. This course will review nature/needs of early adolescents: developmentally appropriate middle schooling; philosophy of school organizations; curriculum, pedagogy, and assessment; cultural and community contexts.
- TEACHING SCIENCE TO MIDDLE LEVEL LEARNERS 3 credits Prerequisites: 5050:310, 311, admission to Teacher Education Program. For the prospective teacher of science in middle childhood; development of a point of view toward science teaching and study methods in presenting science material
- 338 TEACHING SOCIAL STUDIES TO MIDDLE CHILDHOOD 3 credits Prerequisites: 5050:310, 311. A methods course to examine the school social studies curriculum and strategies for effective teaching.
- 342 TEACHING MATH TO MIDDLE LEVEL LEARNERS 3 credits Prerequisites: 5050:310, 311. Modern strategies of psychology and methodology in middle childhood mathematics on exploratory, structural and mastery levels of learning,
- 350 INTEGRATING LANGUAGE ARTS AND MEDIA 3 credits This course provides preservice middle grade teaches with strategies for integrating the language arts in the areas of reading, writing, speaking, listening, media and drama.
- 351 MODES OF WRITING FOR THE MIDDLE GRADES 3 credits Prerequisite: Admission to College of Education's Teacher Education Program. This course will provide middle school languages arts teachers the understandings and skills necessary to teach writing in varieties of forms and modes including newswriting.
- 480 SPECIAL TOPICS: MIDDLE SCHOOL 1-4 credit Prerequisite: permission of instructor. (May be repeated with change of topic.) Group study of special topics in middle childhood of critical contemporary concern in professional education.
- 1-3 credits 490 WORKSHOP Elective workshop for Middle Childhood majors who would like to pursue further refinement of teaching skills. Emphasis in demonstrations of teaching techniques and development.
- 495 STUDENT TEACHING: GRADES 4-6 6 credits Prerequisite: senior status. Corequisite: 498. Planned teaching experience in grades 4-6 selected and supervised by the Office of Educational Field Experience.
- 496 STUDENT TEACHING: GRADES 7-9 6 credits Prerequisite: senior status. Corequisite: 498. Planned teaching experience in grades 7-9 selected and supervised by the Office of Educational Field Experience.
- 498 STUDENT TEACHING COLLOQUIUM: MIDDLE GRADES 1 credit Corequisite: 495 and 496. Prepares learner for final phase of becoming a decision maker. Explores problems encountered in the classroom, initiates reflective practice and concepts of other research.

SECONDARY EDUCATION

5300:

311 INSTRUCTIONAL TECHNIQUES IN 5 credits (30 clinical hours, 20 field hours) SECONDARY EDUCATION

Prerequisites: 5100:210, 211, 5050:310, 311, 320, and 330. Corequisite: 5300:375. Open to student who has completed certification requirements in all content fields. Techniques of planning, instruction and evaluation in various secondary teaching fields.

- 318 METHODS IN TEACHING ART 3 credits Prerequisites: completion of required course for art teachers and grade-point average of 2.50 in the field. Study of trends and procedures in teaching and supervision; relation of art to home, school and community; observation in selected schools required.
- 317 INSTRUCTIONAL TECHNIQUES: MODERN LANGUAGES SECONDARY 3 credits Prerequisites: 5100:210, 211, 5100:310, 311, 320, and 330 and 5200: 321. Focus on theories of language acquisition, models of instruction for teaching foreign languages/cultures and strategies that promote levels of proficiency/competency for adolescent learners.
- 325 CONTENT READING IN SECONDARY SCHOOLS 3 credits (30 clinical hours) Instructional principles and practices for helping secondary school youth and adults learn subject matter through application of reading and study skills.
- TEACHING ADOLESCENT/MIDDLE LEVEL LITERATURE 3 credits 330 Prerequisite: Admission to the College of Education. Student develops skills for selection of literature that is well-suited for adolescent/middle level children. Student develops, uses, and experiences methods for teaching adolescent/middle level literature in the classroom.
- 374 PRINCIPLES OF SHORTHAND INSTRUCTION 2 credits Prerequisites: 2540:173 and grade-point average of 2.50 in the field. Methods of presentation in shorthand and transcription. Demonstration and observations required. Theory test in the field must be passed before credit given for course.
- 375 EXPLORATORY EXPERIENCE IN 1 credit (6 clinical hours, 30 field hours) SECONDARY EDUCATION Corequisite: 311. Field work with secondary school pupils, teachers and other school personnel.
- 395 FIELD EXPERIENCE 1-3 credits Prerequisite: upper-college standing. Supervised work with youngsters, individually and in groups in school and/or community settings.

1-3 credits each

3 credits

- 430 SENIOR HONORS PROJECT: SECONDARY 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and sustained inquiry
- 435/535 CONCEPTS AND CURRICULUM DESIGNS IN ECONOMIC EDUCATION 3 credits Economic education concepts appropriate for grade levels K-12 and adult education courses. Economic education materials developed to teach the concepts utilized.

475/575 VOCATIONAL BUSINESS EDUCATION

Prerequisite: senior status or permission. Principles of program construction, organization, implementation, evaluation, improvement, and development of program guides for both intensive and cooperative vocational business education.

- 480 SPECIAL TOPICS: SECONDARY EDUCATION 1-4 credits (May be repeated with a change in topic) Prerequisite: permission of instructor. Group study of special topics of critical, contemporary concern in professional education.
- 490,1,2,3/590.1.2.3 WORKSHOP
- Individual work under staff guidance on curriculum problems, utilization of community resources, planning of curriculum units.
- 494/594 EDUCATIONAL INSTITUTES 1-4 credits Special courses designed as in-service upgrading programs, frequently provided with the support of national foundations.
- 495 STUDENT TEACHING

8-11 credits Prerequisites: Senior status and permission of instructor. Directed teaching under supervision of directing teacher and University supervisor.

496 STUDENT TEACHING COLLOQUIUM 1 credit Concurrent with Student Teaching; emphasis on applied decision making, group problem solv ing, and commitment to life-long learning.

POSTSECONDARY **TECHNICAL EDUCATION** 5400:

- 301 OCCUPATIONAL EMPLOYMENT EXPERIENCE AND SEMINAR 1-4 credits Provides student with knowledge of current industrial or business practice at level minimally commensurate with that associated with employment expectations of graduates of technical programs.
- 351 CONSUMER HOMEMAKING METHODS 4 credits Prerequisites: senior standing, enrolled in student teaching. Organization of family and consumer sciences in secondary schools. Emphasis on methodology, techniques, development of vocational concepts, utilization of audio-visual materials, evaluation procedures.

395 FIELD EXPERIENCE

1-3 credits Prerequisite: upper-college standing. Supervised work with youngsters, individually and in groups in educational institutions, training and/or community settings.

400/500 THE POSTSECONDARY LEARNER 3 credits Prerequisites: 401 or permission of instructor. Describes characteristics of the the postsecondary learner and studies issues, factors, and strategies pertinent to successful facilitation of

learning in a variety of postsecondary occupational learning environments. 401 LEARNING WITH TECHNOLOGY 1 credit

Experiences in using, developing, and evaluating instructional technologies and media used for postsecondary education.

405/505 WORKPLACE EDUCATION FOR YOUTH AND ADULTS 3 credits History and operations of current vocational education for youth and adults. Includes study of social, economic and political influences that stimulate growth and expansion of vocational education

415/515 TRAINING IN BUSINESS AND INDUSTRY

Prerequisites: 401 or permission of instructor. Examine the role and mission of the training function in the modem industrial setting. Foundation for students interested in industrial trainer or training supervision positions.

420 POSTSECONDARY INSTRUCTIONAL TECHNOLOGIES

Experiences in using, developing, and evaluating instructional technologies and media used for technical instruction.

430/530 SYSTEMATIC CURRICULUM DESIGN FOR POSTSECONDARY INSTRUCTION 3 credits Prerequisite: 401, 420, admission to program and instructor permission. Procedure of breaking down an occupation to determine curriculum of their laboratory and classroom, developing this content into an organized sequence of instructional units.

- 435/535 SYSTEMATIC INSTRUCTIONAL DESIGN IN POSTSECONDARY EDUCATION 3 credits Prerequisites: 401.420, 430, admission to program, or permission of instructor. Selected topics in instructional techniques appropriate in postsecondary technical education. Emphasis on instructional methods, techniques in classroom, laboratory including tests, measurements.
- 451/551 FAMILY AND CONSUMER SCIENCES JOB TRAINING 3 credits Prerequisite: senior standing or permission of instructor. Concept development in vocational family and consumer sciences. Job training, program development, operational procedures, skill and knowledge identification, training profiles, job description and analysis. Individualized study

guides, In-school and on-the-job observations. 467 FIELD EXPERIENCE 3 credits

- 475 INSTRUCTIONAL PRACTICE SEMINAR 3 credits Prerequisites: 5400:400, 401, 405 or 415, 430, 435, and 5100:420 with a GPA of 2.5 or better in Technical Education course work and no course with less than a "C" in 5400 course work. Micro teaching and portfolio development.
- SPECIAL TOPICS: WORKFORCE EDUCATION AND TRAINING 480 1-3 credits (May be repeated with a change in topic) Prerequisite: permission of instructor. Group study of special topics of critical, contemporary concern in professional education.

- 490.1.2/590.1.2 WORKSHOP
- Individual work under staff guidance on curriculum problems, utilization of community resources, planning of curriculum units.
- 495 POSTSECONDARY EDUCATION PRACTICUM 3 credits Prerequisites: 400, 401, 405 or 415, 430, 435, 475, and 5100:420 and a 2.5 GPA or better in Technical Education course work. Permission of advisor and practicum advisor. Directed instruction under supervision of directing instructor and university supervisor, and development of instructional portfolio.
- 497 INDEPENDENT STUDY 1-3 credits 7-3 credits Prerequisites: permission of adviser and supervisor of independent study. Area of study deter-mined by student's need.

CURRICULUM AND INSTRUCTION

5500:

3 credits

1-3 credits each

3 credits

3 credits

- 245 UNDERSTANDING LITERACY DEVELOPMENT AND PHONICS 3 credits Prerequisite: admission to Teacher Education Program. Children's literacy development is explored through an integrated instructional model, with emphasis on the role of comprehension, phonics, and functional spelling in language learning
- 286 TEACHING MULTIPLE TEXTS THROUGH GENRE 3 credits (15 clinical hours) Prerequisite: 245. Survey of children's literature through print and nonprint media. Genres will be explored through a variety of technologies, including computer software and film.
- 310 INSTRUCTIONAL DESIGN 3 credits Prerequisite: 5100:210, 5100:211; Corequisite: 311. Design and teach lessons using instructional models, strategies, and resources for students with different characteristics and design appropriate assessments to measure content mastery.
- 311 INSTRUCTIONAL RESOURCES 3 credits Prerequisites: 5100:210, 5100:211; Corequisite: 310. Examines existing and developing media, technological, human and environmental resources as they relate to learning. Includes identifying, locating, evaluating, using, designing, and preparing educational resources.
- 320 DIVERSITY IN LEARNERS 3 credits Prerequisites: 5100:210, 5100:211. Students learn to appreciate common core culture, the diversity in the student population and the democratic ideal of equal access to educational opportunity. (10 hours of field experience included.)
- 330 CLASSROOM MANAGEMENT 3 credits Prerequisites: 5100:210, 5100:211. Content regarding effective organization of the classroom as well as procedures and models for mediation of student behaviors will be presented.
- 3 credits 341 LABORATORY PRACTICUM IN READING Prerequisite: 245. Laboratory experience with classroom, small groups and individual situations. A student diagnoses, implements procedures and follows prescribed reading improvement practices
- 411 MATERIALS AND ORGANIZATIONS FOR READING INSTRUCTION 3 credits Prerequisite: 245. Professional problems of selection and evaluation of reading materials and classroom organizations explored.
- 440/522 DEVELOPMENTAL READING IN THE CONTENT AREAS 3 credits FOR EARLY AND MIDDLE CHILDHOOD

Prerequisite: 245 or permission of instructor. Nature of reading skills relating to content subjects. Methods and materials needed to promote reading achievement in content subjects by the elementary classroom teacher.

441 LANGUAGE AND ITS RELATIONSHIP TO READING IN THE ELEMENTARY SCHOOL

Prerequisite: 245 or permission of the instructor. An overview of the linguistic field in the teaching of reading in the elementary school. A discussion of major linguistic principles for classroom application in grades K-8.

- 442/524 TEACHING READING TO CULTURALLY DIVERSE LEARNERS 3 credits Prerequisite: 245 or by permission of the instructor. The course is designed to provide a student with knowledge, skills and attitudes which will enable employment of effective methods of teaching reading to culturally different learners, and/or learners whose language patterns are nonstandard.
- 445 EVALUATING LANGUAGE LITERACY 3credits Prerequisite: 245, 286, 440. Corequisite: 425. Explores assessment of students' progress in language literacy. Formal and informal instruments identifying progress in reading, writing, speaking, and listening are examined linked to work in the field.
- 475 INSTRUCTIONAL TECHNOLOGY APPLICATIONS 3 credits Prerequisite: 5100:420 or instructor permission. Develops the learner's competence in the use of instructional technology applications in the K-12 classroom.
- **480 SPECIAL TOPICS** 1-4 credits (May be repeated with a change in topic) Prerequisite: permission of instructor. Group study of special topics of critical, contemporary concern in professional education.
- 481/570 MULTICULTURAL EDUCATION IN UNITED STATES 3 credits Inquiry into multicultural dimensions of American education. Comparisons of urban, suburban and rural educational settings with reference to socioeconomic differences.
- 482/571 CHARACTERISTICS OF CULTURALLY DIVERSE POPULATIONS 3 credits Study of characteristics of culturally different youth with focus on youth in low-income areas. Emphasis on cultural, social, economic and educational considerations and their implications.

483/572 PREPARATION FOR TEACHING CULTURALLY DIVERSE POPULATIONS 3 credits Designed to help prepare trainees to teach culturally different youth from low-income back grounds. Through use of multimedia source materials trainees gain knowledge of background and culture of culturally different learners, determine role of teacher, explore techniques of discipline and classroom management, survey motivational and instructional techniques and examine, prepare and adapt variety of instructional materials for individual, small group and large group instruction.

484/540 PRINCIPLES OF BILINGUAL/MULTICULTURAL EDUCATION

An introduction to the theoretic, cultural, sociolinguistic bases of bilingual/multicultural education. Legislation, court decisions, program implementation included

- 485/541 TEACHING LANGUAGE LITERACY TO SECOND LANGUAGE LEARNERS 4 credits Prerequisite: Admission to the College of Education. Course applies methodologies for teaching reading, language arts in the bilingual/multicultural classroom. The bilingual student's native lanquade, culture stresses
- 488/542 TEACHING MATHEMATICS, SOCIAL STUDIES AND SCIENCE 3 credits TO BILINGUAL STUDENTS

Prerequisites: Completion of all age-appropriate methods courses. Course applies methodologies for teaching mathematics, science, social studies in the bilingual/multicultural classroom. The bilingual student's native language stressed.

487/543TECHNIQUES FOR TEACHING ENGLISH AS A SECOND 4 credits LANGUAGE IN THE BILINGUAL CLASSROOM

Prerequisite: permission of instructor. Course includes teaching language skills to Limited English Proficient students in grades K-12, administration of language assessment tests, selection and evaluation of materials

490,1, 2/590,1,2 WORKSHOP

1-3 credits Emphasizes development of teaching devices and/or curriculum units, demonstration of teaching techniques

PHYSICAL EDUCATION 5540:

120-83 PHYSICAL EDUCATION

BOWLING

124 CANOEING

0.5 credit each Participation in individual and group sports. Individual can acquire knowledge and skill in activities

which may be of value and satisfaction throughout life. One-half credit courses are offered onehalf semester. Permission of coach necessary for enrollment in varsity sports(170-181).**

153

154

155

170

- 145 SQUASH RACQUETS 120 ARCHERY 121 BADMINTON 146 SWIMMING (beginning) 122 BASKETBALL 147 SWIMMING (intermediate)
 - SWMMING (advanced) 148
 - 149 TEAM HANDBALL
 - **TENNIS** (beginning

WATER SAFETY#

BASIC KAYAKING‡

VARSITY BASEBALL

WRESTLING

- 150 VOLLEYBALL
- FITNESS AND WELLNESS# 151 152 WATER POLO
- GOLE GYMNASTICS 128 (apparatus

123

125 DIVING

126

127

131

- GYMNASTICS 129 (tumbling)
- HANDBALL 130
 - INDOOR SOCCER
- 132 KARATE‡
- 133 LIFEGUARD TRAINING##
- 134 MODERN DANCE
- 135 RACQUETBALL
- 136 RUGBY
- 137 SAILING
- 138 SCUBA‡
- 139 SELF DEFENSE‡
- 140 SKIING (cross country)
- 141 SKIING (downhill)
- 142 SOCCER
- 143 SOCIAL DANCE
- 144 SQUARE AND FOLK DANCE

- 190 SPECIAL TOPICS: GENERAL EDUCATION PHYSICAL EDUCATION .5-2 credits Weight training, self defense for the blind, water safety instruction, beginning yoga, tai chi, billiards, intermediate and advanced bowling, intermediate and advanced golf, advanced self defense
- 206 ORIENTEERING 1 credit This course teaches map and compass skills and introduces the sport of orienteering. This is an active, hands-on course. No previous experience is necessary.
- 207 INTRODUCTION TO ROCK CLIMBING 1 credit This course teaches basic rock-climbing skills. No previous experience in necessary.
- 208 BACKPACKING 1 credit This course teaches backpacking and camping skills. An weekend trip is included. No previous previous experience is necessary
- **209 FLATWATER CANOE TRIPPING** 1 credit This course teaches canoeing and camping skills. An overnight trip is included. No previous canceing or camping experience is necessary

PHYSICAL EDUCATION

5550:

3 credits

- 100 INTRODUCTION TO SPORTS/EXERCISE STUDIES 3 credits Provides student with general overview of career opportunities within sport/exercise studies. Emphasis placed on the understanding of the field of sport studies, exercise science and wellness education.
- 102 PHYSICAL EDUCATION ACTIVITIES I: 2 credits (30 clinical hours) FITNESS AND CONTEMPORARY ACTIVITIES Presentation of knowledge, fundamental skill development, and psychomotor skill analysis for

the content areas of fitness and contemporary activities. One hour lecture, two hours lab. 130 PHYSICAL EDUCATION ACTIVITIES FOR CHILDREN

- 2 credits (30 clinical hours) For a physical education majors only. Participation in methods, activities and issues relating to pre-K through elementary physical education programs. One lecture and two laboratory periods per week.
- 150 CONCEPTS IN HEALTH AND FITNESS 3 credits Introduction to basic health and fitness concepts and related topics. Attention will be given to individual fitness programs emphasizing such topics as aerobic and anaerobic exercises, nutrition, diet, stress, and assessment methods and procedures.
- **193 ORIENTATION TO TEACHING** 3 credits (10 field hours, 22 clinical hours) PHYSICAL EDUCATION Investigation of teaching elementary, middle school, secondary physical education. Teacher concerns such as lesson planning are considered. Observations done in school settings. Three hours lecture.
- 194 SPORTS OFFICIATING 2 credits (8 clinical hours) Knowledge of rules for interscholastic sports and officiating techniques. Successful completion of course permits taking of state examination for officiating. Two lectures and one laboratory per week.
- 195 CONCEPTS OF GAMES AND PLAY 2 credits (10 clinical hours) Concept analysis of games and play and application of these concepts to the teaching/learning process in physical education at all age levels.
- 201 KINESIOLOGY 3 credits (8 clinical hours) Prerequisites: 3100:206/207 or 3100:208/209. Application of basic principles of anatomy and mechanics to human movement Three hours lecture with practical application and demonstrations.
- 202 DIAGNOSIS OF MOTOR SKILLS 3 credits (30 clinical hours) Prerequisite: 5550:201. This course introduces athletic trainers and physical education majors to the sciences of diagnosing motor skills.
- 203 MEASUREMENT AND EVALUATION IN 3 credits (20 clinical hours) PHYSICAL EDUCATION Statistical procedures needed for analysis and interpretation of tests. Evaluation procedures,

testing instruments, and techniques for administering tests are discussed and practiced. Three hours lecture.

204 PHYSICAL EDUCATION ACTIVITIES II: 2 credits (30 clinical hours) SOCCER AND SWIMMING

Course presents knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of soccer and swimming. One hour lecture, two hours lab.

205 PHYSICAL EDUCATION ACTIVITIES III: 2 credits (30 clinical hours) BASKETBALL AND TRACK/FIELD

Course presents knowledge, fundamental skill development, and psychomotor skill analysis rela-tive to areas of basketball and track and field. One hour lecture, two hours lab.

- 211 FIRST AID AND CARDIOPULMONARY RESUSCITATION 2 credits (15 clinical hours) Based on American Red Cross standards for first aid and cardiopulmonary resuscitation. Instruction and skills practice for sudden illness/emergencies is provided. Two hours lecture
- 212 FIRST AID AND CPR FOR THE PROFESSIONAL RESCUER Prerequisite: permission of instructor. First aid and cardiopulmonary resuscitation for health care professionals based upon American Red Cross standards. Instruction and skills practice for sudden illness/emergencies is provided
- 235 CONCEPTS OF MOTOR LEARNING 3 credits (10 field hours, 10 clinical hours) AND DEVELOPMENT

This course will introduce key motor learning concepts and analysis of developing fundamental motor skills. Three hours lecture.

** Varsity sports are one credit each

Dne credit each. Two periods each week.

‡‡ Two credits each.

* Students must be in the College of Education to take 300/400 level courses.

- 173 VARSITY FOOTBALL 174 VARSITY GOLF 175 VARSITY SOCCER
 - VARSITY SOFTBALL 176
 - 177 VARSITY SWIMMING
 - 178 VARSITY TENNES
 - 179 VARSITY TRACK
 - 180 VARSITY WRESTLING
 - 161 VARSITY VOLLEYBALL
 - 182 VARSITY RIFLERY
 - 183 VARSITY CHEERLEADING

171 VARSITY BASKETBALL 172 VARSITY CROSS COUNTRY

- 240 CARE AND PREVENTION OF ATHLETIC INJURIES 4 credits (15 clinical hours) Prerequisites: 3100:206/207 or 3100:208/209. Discussion of prevention, immediate care and rehabilitation of common athletic injuries. Practical application of wrapping and taping procedures for injury prevention and post-injury support.
- 246 ADAPTED PHYSICAL EDUCATION 3 credits (30 clinical hours, 10 field hours) Identification of atypical movement among various exceptional individuals, with adapted physical education programming experience in a laboratory setting. Two hours lecture and two hours lab.
- 300 PHYSIOLOGY OF EXERCISE FOR THE ADULT AND ELDERLY[®] 3 credits Analysis of physiological effects of exercise on elderly. Exercise programs adaptable for use by persons working with elderly. Three hours lecture.
- 302 PHYSIOLOGY OF EXERCISE* 3 credits (30 clinical hours) Prerequisites: 3100:206/207 or 3100:208/209. A course designed to study the physiological effects of exercise relative to physical education activities, athletics and athletic training. Two hours lecture, two hours laboratory.
- 305 CLINICAL EXPERIENCE I 3 credits Prerequisite: 240/Corequisite: 441. Improves the student's psychomotor skills in the following domains of athletic training: injury prevention, injury recognition/evaluation and management, therapeutic exercise and rehabilitation.
- 306 PHYSICAL EDUCATION ACTIVITIES IV* 2 credits (30 clinical hours) BADMINTON AND GOLF

Course presents knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of badminton and golf. One hour lecture, two hours lab.

307 PHYSICAL EDUCATION ACTIVITIES V° 2 credits (30 clinical hours) TENNES AND VOLLEVEALL

Course presents knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of tennis and volleyball. One hour lecture, two hours lab.

308 PHYSICAL EDUCATION ACTIVITIES VI* 2 credits (30 clinical hours) DANCE AND TUMBLING

Course presents knowledge, fundamental skill development, and psychomotor skill analysis for the content areas of dance and tumbling. One hour lecture, two hours lab.

- 310 THEORY AND TECHNIQUES OF SOCCER* Theory, techniques and organizational procedures for coaching of soccer. Two class periods per week.
- 311 THEORY AND TECHNIQUES OF TRACK AND FIELD[®] 1 credit (20 clinical hours) Theory, techniques and organizational procedures for coaching of track and field. Two class periods per week.
- 312 THEORY AND TECHNIQUES OF BASKETBALL* Theory, techniques and organizational procedures for coaching of basketball. Two class periods per week.
- 313 THEORY AND TECHNIQUES OF BASEBALL/SOFTBALL* Theory, techniques and organizational procedures for coaching of baseball and softball. Two class periods per week.
- 320 THEORY AND TECHNIQUES OF VOLLEYBALL^e Theory, techniques and organizational procedures for coaching of volleyball. Two class periods per week.
- 325 THEORY AND TECHNIQUES OF FOOTBALL* 1 credit (20 clinical hours) Theory, techniques and organizational procedures for coaching of football. Two class periods per weak
- 334 GAMES AND RHYTHMS FOR ELEMENTARY* 3 credits (30 clinical hours, 5 field hours) SCHOOL CHILDREN

Emphasis is on acquisition and development of fundamental motor skills, rhythmic movements, and physical fitness among elementary school children. Two hours lecture, two hours lab.

335 MOVEMENT EXPERIENCES FOR 3 credits (20 clinical hours, 10 field hours) CHILDREN[®]

Prerequisites: 130, 193, 235. Course focuses on use of fundamental motor skill analysis to structure movement lessons for children from early childhood through elementary years. One hour lecture, two hours leb.

336 MOTOR LEARNING AND DEVELOPMENT 2 credits (10 field hours) FOR EARLY CHILDHOOD*

Physical fitness, fundamental motor skills, motor development and learning for early childhood, birth to age eight. Creating an environment of motor experiences for young children.

345 INSTRUCTIONAL TECHNIQUES FOR CHILDREN 3 credits (30 clinical hours) IN PHYSICAL EDUCATION*

Prerequisites: 130 and 193. Microteaching experience with the purpose being to improve preservice instructional skills for effective teaching of multi-age physical education.

346 INSTRUCTIONAL TECHNIQUES IN SECONDARY 3 credits (30 clinical hours) PHYSICAL EDUCATION*

Prerequisites: 102, 193 and 204/205. Presentation of various teaching styles/skills/behaviors for effective teaching of secondary physical education via microteaching. Two hours lecture, two hours lab.

3 credits

352 STRENGTH AND CONDITIONING FUNDAMENTALS*

Prerequisite: 302. This course will discuss scientific principles of physical conditioning. Application of physiological principles to the development of specific conditioning components will be analyzed.

395 FIELD EXPERIENCE* 1-3 credits (30-90 field hours) Prerequisite: permission of adviser. Practical experience in an area related to physical education under supervision of faculty member. Student works with current physical education programs in schools.

- 400/500 MUSCULOSKELETAL ANATOMY I: UPPER EXTREMETY 3 credits Prerequisite: 3100:200, 3100:202. This course includes lecture/laboratory activities to provide the student a comprehensive learning experience in upper extremity musculoskeletal anatomy.
- 401/501 MUSCULOSKELETAL ANATOMY II: LOWER EXTREMENT 3 credits Prerequisites: 3100:200, 3100:202, 201 and 240. This course includes lecture laboratory activities to provide the student a comprehensive learning experience in lower extremity musculoskeletal anatomy
- 403 EXERCISE TESTING* 3 credits Prerequisite: 302. This course will cover basic knowledge of exercise testing and interpretation of results. Cardiovascular and muscular fitness aspects will be measured.
- 404 EXERCISE PRESCRIPTION* 3 credits Prerequisites: 302 and 403. This course focuses on how to appropriately prescribe exercise for various populations (young, middle-aged, elderly, pregnant, diseased-states).
- 405 CLINICAL EXPERIENCE II 2 credits Prerequisite: 240. Corequisite: 475. Improves the student's psychomotor skills in the following domains of athletic training: injury prevention, injury recognition/evaluation and management, education and counseling.
- 409 HUMAN DYNAMICS OF SPORTS AND EXERCISE* 3 credits Prerequisite: 302. The focus of this course is the behavior of athletes and sport participants studied within the context of play, games, and sport.
- 420 SPORT MANAGEMENT* 3 credits Prerequisite: 302. This course seeks to explore, acquire, and discuss knowledge within the theoretical and applied management practices of sport, fitness, and instructional programs.
- 422/522 SPORT PLANNING/PROMOTION 3 creditS Analysis of marketing/promotions from a sport manager's perspective. Emphasis on marketing strategy, tactics and development in sport delivery systems.
- 430 SENIOR HONORS PROJECT: PHYSICAL EDUCATION[•] 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and sustained inquiry.
- 436/536 FOUNDATIONS AND ELEMENTS OF ADAPTED PHYSICAL EDUCATION[®] 3 credits Principles, components, and strategies necessary in providing motor activities for handicapped students via application of a neurodevelopmental model and alternate methods. Three hours lecture.
- 440/540 INJURY MANAGEMENT FOR TEACHERS AND COACHES 3 credits Prerequisites; 211. Introduction to injuries, preventative measures and basic rehabilitative methods for enhancing safety of individual performers; legal issues associated with care and prevention of sport injury.
- 441/541 ADVANCED ATHLETIC INJURY MANAGEMENT/ 4 credits (30 clinical hours) UPPER EXTREMITY*
 - Prerequisites: 3100:200, 3100:202, 201, 240. This is a comprehensive course designed for the student to display knowledge/psychomotor skills in injury evaluation/recognition. Includes coursework and laboratory components.
- 442/542 THERAPEUTIC MODALITIES AND PHARMACOLOGY 4 credits (30 clinical hours) Prerequisites: 3100:200, and 3100:202. This course will promote student demonstration of knowledge and psychomotor skills in relation to therapeutic modalities and common medications used in athletic training settings.
- 445 THERAPEUTIC EXERCISE AND REHABILITATION 4 credits Prerequisites: 3100:200, 3100:202, 201 and 302. This is a comprehensive course covering exercise prescription for injured active individuals, determination of therapeutic goals and selection of rehabilitation techniques. Coursework and laboratory components.
- 449 ORGANIZATION AND ADMINISTRATION FOR HEALTH CARE PROFESSIONALS 3 credits This class is a requirement for Athletic Trainers and Exercise Science majors. This class presents the skills necessary for supervising a health care facility.
- 450 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION, 3 credits INTRAMURALS, AND ATHLETICS*

Investigation of procedures for conducting physical education, intramural, and athletic programs. Includes tournament designs, supplies and equipment, liability, curriculum, and general administration. Three hours lecture.

451/551 ASSESSMENT AND EVALUATION IN 3 credits (20 clinical hours) ADAPTED PHYSICAL EDUCATION*

Prerequisites: permission of adviser. Investigation, analysis, and selection of appropriate assessment instruments, as well as methodology for determining instructional objectives and activities for handicapped students. Three hours lecture.

- 452 FOUNDATIONS OF PHYSICAL EDUCATION* 3 credits Overview of the emergence of physical education as a profession and the supporting role of underlying scholarly and scientific disciplines. Three hours lecture.
- 453/553 PRINCIPLES IN COACHING 3 credits (10 clinical hours) Basics for becoming a successful coach. Discussion of principles applying to most sports, players and coaches. Ten (10) clinical hours required.
- 455/555 MOTOR DEVELOPMENT OF SPECIAL POPULATIONS* 3 credits Prerequisite: permission of adviser. Task analysis essential to structuring activity sequences for motor skills and lifetime fitness activities for handicapped students. Three hours lecture.
- 459 PRACTICUM SEMINAR Prerequisite: permission of instructor. This course will focus on the professional development process, including practicum preparation, resume development, interview skills and job search strategies.

* Students must be in the College of Education to take 300/400 level courses.

- 460 PRACTICUM IN PHYSICAL EDUCATION* 3-6 credits (90-180 field hours) Prerequisites: senior standing and permission of adviser. Practical work experience with certified personnel in a discipline or profession related to physical education. The experience will be a cooperative effort of the student's adviser, the student and agency personnel directly involved with the practicum.
- 482/562 LEGAL ASPECTS OF PHYSICAL ACTIVITY 2 credits This course will overview legal and ethical elements of greatest concern to specialists in sport and physical activity. Cases used to illustrate specific points. Topics vary.
- 475 ADVANCED ATHLETIC INJURY MANAGEMENT: LOWER EXTREMITY 3 credits Prerequisites: 3100:200, 201, 202, 203, 5550:240. Provide the opportunity to develop mastery of problem-solving and presentation methods in health and physical education, with experiential learning.
- 80 INTRODUCTION TO ATHLETIC TRAINING 1 credit Provides an overview of the Sports Medicine team and the components of a comprehensive athletic healthcare program. Introduces the student to the profession of athletic training.
- 480 GENERAL MEDICAL ASPECTS 3 credits Prerequisite: 240. Covers various topics related to sports medicine and general medical conditions. Students will gain perspectives and exposure to a variety of allied health care professionals.
- 480,1,2,3/590,1,2,3 WORKSHOP*

Practical, intensive and concentrated involvement with current curricular practices in areas related to physical education.

493/593 EDUCATIONAL INSTITUTES: PHYSICAL EDUCATION[®] 1-4 credits Practical experience with current research or curricular practices involving expert resource persons in health and physical education. Usually financed by private or public funding.

494 STUDENT TEACHING COLLOQUIUM 2 credits (20 clinical hours) FOR PHYSICAL AND HEALTH EDUCATION*

Prerequisites: Core courses, program studies courses; corequisite: Student Teaching, 495. Students meet during student teaching to discuss concerns about student teaching and analyze previous learning as it relates to their future as a professional educator.

495 STUDENT TEACHING FOR PHYSICAL 10 credits (480 field hours) AND HEALTH EDUCATION*

Prerequisites: Core courses (2.50), program studies courses (2.50), 2.50 GPA; corequisite: 494. Supervised teaching experience in a school setting for sixteen weeks. Provided with opportunity to teach, to explore new methods and ideas, and to interact within an actual school environment.

497 INDEPENDENT STUDY* 1-2 credits (30-60 field hours) Prerequisite: permission of adviser. Analysis of specific topic related to a current problem in physical education. May include investigative procedures, research or concentrated practical experience.

OUTDOOR EDUCATION

5560:

- 430 SENIOR HONORS PROJECT: OUTDOOR EDUCATION 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and sustained inquiry.
- 440 INTRODUCTION TO OUTDOOR PURSUITS 3 credits The purpose of this course is to introduce students to the varied but interrelated topics of Outdoor Pursuits, Adventure Education, Project Adventure, and New Games philosophy as they relate to Physical Education and Recreation programming.
- 450/550 APPLICATION OF OUTDOOR EDUCATION TO THE SCHOOL CURRICULUM 4 credits Provides knowledge, skills and techniques useful in application of outdoor education to school curriculum.
- 452/552 RESOURCES AND RESOURCE MANAGEMENT FOR TEACHING 4 credits OUTDOOR EDUCATION 4

Methodologies unique to outdoor education which incorporate a multisensory approach to learning. Instructional materials and resources which permit expansion of curriculum beyond the school building.

- 464 RESIDENT OUTDOOR EDUCATION 2 credits (20 field hours) Skills, program considerations, and organizational techniques unique to an extended, overnight, resident outdoor education program. Off-campus location for four days and three nights.
- 456/556 OUTDOOR PURSUITS 4 credits Investigation and participation in practical experiences in outdoor pursuits.
- 456 ORGANIZATION AND ADMINISTRATION OF OUTDOOR PURSUITS 3 credits The purpose of this course is to provide the basic information necessary for the preparation of educators, leaders and administrators of outdoor programs.

- 460 OUTDOOR EDUCATION PRACTICUM 2 credits Prerequisites: 452, 454. Closely supervised practical experience in conjunction with regularly scheduled classroom meetings. Laboratory experience consists of active participation with an established outdoor education program.
- 462 ADVENTURE THERAPY 3 credits This course will discuss the interaction of experimental learning and adventure therapy. Application of adventure experiences therapeutic processes will be analyzed and explored.
- 484 WILDERNESS EDUCATION ASSOCIATION OUTDOOR LEADERSHIP 3 credits This is the Wilderness Education Association Standard Program for Outdoor Leadership Certification.
- 490/590 WORKSHOP: OUTDOOR EDUCATION 1-3 credits Practical application of contemporary ideas, methodologies, knowledge relevant to outdoor education. Emphasis on participant involvement in educational practices, utilizing the natural environment.
- 494/594 EDUCATIONAL INSTITUTES: OUTDOOR EDUCATION 1-4 credits Practical experience with current research or curricular practices involving expert resource persons in outdoor education.
- 497 INDEPENDENT STUDY 1-3 credits (30-90 field hours) Prerequisites: permission of adviser and supervisor of independent study. Provides varied opportunities for a student to gain first-hand knowledge and experience with existing outdoor education programs.

HEALTH EDUCATION

5570:

1-3 credits each

- 101 PERSONAL HEALTH 2 credits (5 clinical hours) This course applies the current principles and facts pertaining to healthful, effective living, personal health problems, and needs of the student. Two hours lecture.
- 201 FOUNDATIONS IN HEALTH EDUCATION 3 credits (10 field hours, 20 clinical hours) Prerequisite: 101. History and philosophy of health education as a discipline; professionalism and administration in health education are considered.
- 202 STRESS, LIFE-STYLE AND YOUR HEALTH 3 credits (20 clinical hours) Prerequisites: 101; 201. This course will provide knowledge and attitudes about the relationship between stress and physiological and psychological illness and disease as well as how to prevent and manage stress in daily life activities.
- 322 CURRENT TOPICS IN HEALTH EDUCATION[®] 3 credits (20 clinical hours) Prerequisites: 101, 201, 320. Skills needed to do research, teach, and present current health education topics in a factual and comfortable manner in schools and community. Three hours lecture.
- MEASUREMENT AND EVALUATION IN 3 credits (20 clinical hours)
 HEALTH EDUCATION*
 Prerequisites: 101, 201, 202, 320. Presentation of measurement inventories and evaluation
 - Prerequisites: 101, 201, 202, 320. Presentation of measurement inventories and evaluation techniques in health education. Testing instruments, administering tests and evaluation procedures are discussed and practiced. Three hours lecture.
- 395 FIELD EXPERIENCE IN HEALTH EDUCATION[®] 1-3 credits (30-90 field hours) Prerequisite: permission of the adviser. On-site field experience will be conducted in an area related to pre-K-12health education under the supervision of a faculty member.
- 400 ENVIRONMENTAL ASPECTS 3 credits (5 field hours, 20 clinical hours) OF HEALTH*
- Prerequisite: Major or minor in health education or instructor's permission. A study of the interrelationships of ecosystems and a healthful environment. This course investigates many aspects of the environment and their influences upon the quality of human life.
- 420 COMMUNITY HEALTH[•] 2 credits (20 clinical hours) Study of current public health problems. Organization and administration of various agencies and their role in the solution of community health problems.

1-3 credits

3 credits

- 4 credits (20 clinical hours) 421/521 COMPREHENSIVE SCHOOL HEALTH Prerequisites: 101, 201, 320. This course explains and presents comprehensive school health curricula for pre-K-12. The three components of a comprehensive school health program are presented; instruction, services, and the environment.
- 423 METHODS AND MATERIALS OF 3 credits (10 field hours, 20 clinical hours) **HEALTH EDUCATION***

Prerequisites: 101, 201, 320, 5100:210/211, 5500:310/311. Planning, organization, use of instruc-tional resources and delivery of health education content and teaching processes (pre K-12).

- 430 SENIOR HONORS PROJECT: HEALTH EDUCATION* 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and sustained inquiry.
- 460 PRACTICUM IN HEALTH EDUCATION* 2 credits (60 field hours) Prerequisite: permission of the adviser. The practicum in Health Education is an on-site participation in a community health organization, agency or resource.
- 497 INDEPENDENT STUDY IN HEALTH EDUCATION* 1-2 credits (30-60 field hours) Prerequisite: permission of the adviser. Analysis of a specific topic related to a current problem in health education. May include investigative procedure, research or concentrated practical experience

EDUCATIONAL GUIDANCE AND COUNSELING

5600:

- 110 CAREER PLANNING 2 credits Skills necessary to make effective educational and career decisions. Emphasis upon self-understanding, career exploration, career planning, decision making.
- 410 PERSONNEL SERVICES IN SCHOOLS 2 credits Prerequisite: senior standing. Introduction to background, role and function, techniques, community agencies and issues in personnel field. For student considering pupil personnel fields, social work.
- 426/526 CAREER EDUCATION 2 credits Prerequisite: junior, senior or graduate standing. Examination of current career education models and programs with emphasis on infusion of career education activities into elementary and sec ondary curriculum.
- 436 HELPING SKILLS FOR RESIDENT ASSISTANTS 2 credits (Credit/noncredit) Prerequisite: open to resident assistants in University housing. A course designed to help student personnel workers become more effective in professional role.
- 460/550 COUNSELING PROBLEMS RELATED TO LIFE-THREATENING 3 credits ILLNESS AND DEATH

Prerequisite: permission. Consideration of the global issues, current research, coping behavior, support systems and family and individual needs in regard to life-threatening situations

480 SPECIAL TOPICS: EDUCATIONAL GUIDANCE AND COUNSELING 1-4 credits (May be repeated with a change in topic) Prerequisite: permission of instructor. Group study of special topics of critical, contemporary concern in professional education.

490,1,2/590,1,2 WORKSHOP

1-3 credits each Special instruction designed as in-service and/or upgrading individuals on current issues and practices in counseling.

493/593 WORKSHOP

1-4 credits Special instruction designed as in-service and/or upgrading individuals on current issues and practices in counseling

1-4 credits

494/594 COUNSELING INSTITUTE

In-service programs for counselors and other helping professionals.

SPECIAL EDUCATION

5610:

- 395 FIELD EXPERIENCE: SPECIAL EDUCATION Prerequisite: upper-college standing. Supervised work with youngsters, individually and in groups
- in school and/or community settings. 403 STUDENT TEACHING COLLOQUIUM: SPECIAL EDUCATION 1 credit Prerequisite: senior status in conjunction with Student Teaching; and corequisites: 480, or 481, or 482, or 483, or 484 and 5050:401. An examination of problems, issues, and practices encountered during the student teaching experience.
- SENIOR HONORS PROJECT: SPECIAL EDUCATION 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and permission of student's preceptor. Carefully defined individual study demonstrating originality and sustained inquiry
- 440/540 DEVELOPMENTAL CHARACTERISTICS OF EXCEPTIONAL INDIVIDUALS 3 credits Prerequisite: Admission to a College of Education Preparation Program or permission of the instructor. A survey course covering the identification, developmental characteristics, and intervention strategies for exceptional children and youth across educational and community settings.
- 447/547 DEVELOPMENTAL CHARACTERISTICS OF INDIVIDUALS 4 credits WITH MILD/MODERATE EDUCATIONAL NEEDS Survey of the etiology, identification, classification, developmental characteristics of and inter
 - vention strategies for individuals with mild/moderate educational needs. 4 credits
- 448/548 DEVELOPMENTAL CHARACTERISTICS OF INDIVIDUALS WITH MODERATE/INTENSIVE EDUCATIONAL NEEDS

Prerequisites:7400:265 and 440/540. Survey of the etiology, diagnosis, classification and develop-mental characteristics of individuals with moderate/intensive educational needs.

450/550 SPECIAL EDUCATION PROGRAMIMING: EARLY CHILDHOOD

Prerequisites: Admission to a College of Education Teacher Preparation Program and 440, 7400:265 or permission of the instructor. Developmental patterns of young children with disabilities and developmentally/exceptionality appropriate practices with respect to programming and adaptations.

- 451/551 SPECIAL EDUCATION PROGRAMMING: MILD/MODERATE I Prerequisites: Admission to a Special Education Licensure Program and 440/540, 447/547, 5200:245, 345, 342 or permission of instructor. Educational implications regarding assessment, teaching strategies, and adaptive materials necessary to meet the needs of school age students
- with mild/moderate educational needs. 452/552 SPECIAL EDUCATION PROGRAMMING: SECONDARY/TRANSITION 3 credits Prerequisite: 447 OR 448. Study of diagnostic prescriptive service delivery systems designed to accommodate developmental patterns of secondary-level students with exceptionalities.
- 453/553 SPECIAL EDUCATION PROGRAMMING: MODERATE/INTENSIVE I 4 credits Prerequisites: 448/548. Development of the programming strategies including assessment, ransdisciplinary models, family involvement, IFSP/IEP/IP development, instructional practices based upon legal/ethical principles for individuals with moderate/intensive educational needs.
- 454/554 SPECIAL EDUCATION PROGRAMMING: MODERATE/INTENSIVE II Prerequisites: 448/548, 453/553 and 463/563. Advanced program for providing educational planning and intervention for individuals with moderate to intensive educational needs. Focus is on developing a comprehensive educational program which will facilitate optimum functioning and independence.

457/557 SPECIAL EDUCATION PROGRAMMING: MILD/MODERATE II 4 credits Special educational implications regarding assessment, teaching strategies, and adaptive materials necessary to meet the needs of school age students with mild/moderate educational needs.

459/559 COLLABORATION & CONSULTATION IN SCHOOLS AND COMMUNITY 3 credits Prerequisites: 440/540, 447/547, or 448/548 or permission from instructor. Provides professional educators/intervention specialists with skills in collaboration and consultation for working with parents of exceptional individuals and other professionals within school/community settings

460/560 FAMILY DYNAMICS AND COMMUNICATION IN THE EDUCATIONAL PROCESS 3 credits A study of family theory and structure along with beginning techniques for working with families of students with exceptionalities, in educational and community settings.

461/561 SPECIAL EDUCATION PROGRAMMING: EARLY CHILDHOOD 3 credits MODERATE/INTENSIVE

Prerequisites: Admission to College of Education Teacher Preparation Program, 440, 450 and 7400:265 or permission of instructor. Developmental patterns of young children with moderate/intensive needs (ages 3-8) and developmentally appropriate practices in programming and adaptations.

463/563 ASSESSMENT IN SPECIAL EDUCATION

3 credits Prerequisite: 440/540, 5500:310. Prepares student to select, administer and interpret formal and informal assessment procedures and use resulting data in planning educational programs for exceptional individuals.

464 ASSESSMENT AND EVALUATION IN EARLY CHILDHOOD 3 credits SPECIAL EDUCATION

Prerequisites: 440 and 7400:265. The assessment of children (three to eight) and their environment who are at risk for disabilities or currently in special education.

467/567 MANAGEMENT STRATEGIES IN SPECIAL EDUCATION

3 credits Prerequisites: 5100:210; 5100:211; 5500:320; 5500:330; 5610:440 and one of the following: 5610:441, 443, 445, or 446. Content emphasizing the development of application strategies with a variety of behavior management models for meditation of behaviors with exceptional individuals.
- 470/570 CLINICAL PRACTICUM IN SPECIAL EDUCATION 3 credits Prerequisite: Permission of instructor. Corequisites: 403 and 486 or487. Provides a pre-student teaching experience for students in the areas of assessment, program planning, instructional planning and presentation, classroom management, adaptations, and collaboration with parents and other educational professionals.
- 479/579 SEMINAR: INVITATIONAL STUDIES IN SPECIAL EDUCATION 1-2 credits (May be repeated for a total of four credits) Topical study with a varied array of disciplinary input. Staffing will be invited members of allied and contributing professions active in manage ment of exceptional children.
- 485 STUDENT TEACHING SPECIAL EDUCATION 8 credits Prerequisite: Completion of mejor program requirements permission. A full-time 8 veek(Summer 5 week) planned teaching experience in a designated setting with exceptional children under the supervision of the cooperating teacher and the University supervisor.
- 486 STUDENT TEACHING: MILD/MODERATE EDUCATIONAL NEEDS 8 credits Two full-time, five week supervised teaching experiences in the role of Intervention Specialist for Students with Mild/Moderate Educational Needs at the elementary and secondary levels.
- 487 STUDENT TEACHING: MODERATE/INTENSIVE EDUCATIONAL NEEDS 8 credits Prerequisites; Senior status, completion of major program requirements and permission. Corequisites: 403 and 470. Two full-time, five week supervised teaching experiences in the role of Intervention Specialist for students with moderate/intensive educational needs at the elementary and secondary levels.
- 490,1,2,3/590,1,2,3 WORKSHOP 1-3 credits each (May be repeated for a total of six credits) Designed to explore special topics in in-service or preservice education on a needs basis.
- 494/594 EDUCATION INSTITUTES: SPECIAL EDUCATION 1-4 credits Special courses designed as in-service upgrading programs, frequently provided with the support of national foundations.
- INDEPENDENT STUDY: SPECIAL EDUCATION 1-3 credits 497 Prerequisites: permission of adviser and supervisor of the independent study. Specific area of investigation determined in accordance with student's needs.

SCHOOL PSYCHOLOGY

5620:

490/590 WORKSHOP 1-2 credits Prerequisite: permission of instructor. Opportune topical experience provided periodically as needed and/or as resources become available.

491,2/591.2 WORKSHOP

1-3 credits each Prerequisite: permission of instructor. Opportune topical experience provided periodically as needed and/or as resources become available.

494/594 SCHOOL PSYCHOLOGY INSTITUTES

Prerequisite: permission of instructor. Specifically designed learning experience for program graduate focusing on critical topics.

SPECIAL EDUCATIONAL PROGRAMS

5800:

- 490/590 WORKSHOP IN ECONOMIC EDUCATION OR IN SOCIAL STUDIES 1-3 credits Individual work under staff guidance on curriculum problems; utilization of community resources; planning of curriculum units
- 491/591 WORKSHOP IN ARITHMETIC OR IN PHYSICAL SCIENCE 1-3 credits individual work under staff guidance on curriculum problems; utilization of community resources, planning of curriculum units.
- 492/592 WORKSHOP IN READING 1-3 credits Individual work under staff guidance on curriculum problems; utilization of community resources: planning of curriculum units. 493/593 WORKSHOP ON EXCEPTIONAL CHILDREN 1-3 credits Individual work under staff guidance on curriculum problems; utilization of community
- resources; planning of curriculum units. 3-6 credits 494/594 INTERNATIONAL SCHOOL STUDY On-the scene study of education in foreign countries, usually by concentrating on the study of schools in one restricted geographical area.

EDUCATIONAL TECHNOLOGY

5850:

1-4 credits

- INTRODUCTION: PUPIL PERSONNEL WORK 2 credits 100 Purposes, needs, scope, character of pupil personnel services. INFORMATIONAL SERVICES IN GUIDANCE AND SPECIAL EDUCATION 2 credits Emphasis on organization and status of informational services as related to activities of educational technologist. 204 HUMAN RELATIONS IN EDUCATION 3 credits Study of individual and group relationships in educational setting including development of basic interpersonal skills 207 MECHANICS OF STUDENT APPRAISAL 3 credits Introduction to group appraisal with major emphasis on assisting certified personnel in group test administration, scoring, organizing and recording test results. 213 ORIENTATION OF THE EDUCATIONAL TECHNICIANS TO THE 2 credits
- SECONDARY SCHOOL Designed to provide student preparing for role of educational technician with framework for understanding secondary education.
- 260 SPECIAL EDUCATION TECHNOLOGY 2 credits Survey of selected procedures and materials employed in classrooms especially designed and operated for exceptional children.
- 295 EDUCATION TECHNICIAN FIELD EXPERIENCE 5 credits (May be repeated once) Supervised field experience in school setting designed for educational technician enrollees only.

College of **Business** Administration

COOPERATIVE EDUCATION 6000:

301 COOPERATIVE EDUCATION

(May be repeated) For cooperative education students only. Work experience in business, industry, or governmental agency. Comprehensive performance evaluation and written report required.

0 credits

GENERAL BUSINESS

6100:

- 101 GLOBAL BUSINESS CONCEPTS AND PRACTICES 3 credits An introductory course presenting the business firm throughout the world as an integrative unit that uses information from various functional fields in decision-making.
- 201 INTRODUCTION TO E-BUSINESS 3 credits Prerequisite: 24 credits. Provides a broad overview of e-business strategies, products and technologies. Discusses transformation of marketing, production and other business functions; and related legal, political, ethical and cultural issues

FINANCE FOR NON-BUSINESS STUDENTS 6140:

331 PERSONAL FINANCE

- 3 credits (For non-College of Business Administration students.) A survey analysis of personal financial decisions related to budgeting, insurance, credit, and investments
- 341 CONTEMPORARY INVESTMENTS 3 credits (For non-College of Business Administration students.) Fundamentals of investing in stocks, bonds, derivatives, mutual funds, and closed-end investment companies for the individual investor
- 370 INTRODUCTION TO FINANCE 3 credits (For non-College of Business Administration students.) Studies the sources and uses of funds for business

ACCOUNTANCY

6200:

201 ACCOUNTING CONCEPTS AND PRINCIPLES FOR BUSINESS 3 credits Prerequisite: 24 hours of college credit. Introduction to accounting concepts and terminology. Accounting for assets, liabilities, and proprietorship. Analysis of cash flow and financial statements

202 MANAGERIAL ACCOUNTING

3 credits Prerequisite: 201. Information needs of management. Study of product costing systems; standard costs; planning, budgeting, and control systems; responsibility accounting; activity-based costing and activity-based management; cost-volume profit analysis; relevant costing; and capital budgeting.

- 250 MICROCOMPUTER APPLICATIONS FOR BUSINESS 3 credits Prerequisite: Computer proficiency and either 201 or 24 semester credit hours completed. Introduces analysis, design and development of business information systems. Provides handson experience with microcomputer applications such as spreadsheets, database management systems and Internet applications development.
- 255 INFORMATION PROCESSING 3 credits Prerequisite: 201 and 32 credits of completed and current enrollment. Introduction to automatic data processing systems in an accounting and management environment. Fundamentals of computer programming presented to student. For Accounting majors only.
- 300 PROFESSIONAL ORIENTATION 1 credit Prerequisite: 202. Provides an overview of the field of accounting and examines the professional skills and personal attributes required for a successful career in accounting.
- 301 COST MANAGEMENT AND ENTERPRISE RESOURCE PLANNING 3 credits Prerequisites: 3250:200, 250, and grades of not less than "C" in 201, 202 and 320 or 6500:350. Accounting majors must take 320. Product cost accumulation, cost management strategies, performance evaluation, role of cost in business decisions, and use of enterprise resource planning (ERP) systems as a cost management enabler.

- 316 FINANCIAL APPLICATIONS DEVELOPMENT 3 credits Prerequisite: 201, 6500:315. Analysis, design and development of financial and control applications. Integration of intelligent agents into financial information systems for risk assessment, control and assurance of business
- 3 credits 320 ACCOUNTING INFORMATION SYSTEMS Prerequisites: 250, and grade of not less than "C" in 201. Covers AIS concepts, business modeling, accounting transaction cycles and internal control.
- 321 INTERMEDIATE ACCOUNTING I 3 credits Prerequisite: 320. Accounting for cash, receivables, inventories, property, plant and equipment, intangibles and liabilities.
- 322 INTERMEDIATE ACCOUNTING II 3 credits Prerequisite: 300, 320 and 321. Accounting for owners' equity, investments, revenue recognition, tax allocations, pensions, leases, accounting changes, cash flows, segments, and interim periods.
- 325 FINANCIAL ACCOUNTING SYSTEMS AND ENTERPRISE RESOURCE PLANNING 3 credits Prerequisite: 321 and 320 or 6500:350. (must be taken by accounting majors) Evaluation, selection, implementation, validation, assurance and use of enterprise resource planning systems and the impact of these systems on the finance function in organizations.
- 360 BUDGETING 3 credits Prerequisite: 301. Study of principles and policies of budgeting. Emphasis on managerial control of expenses, capital expenditures and related activities.
- ACCOUNTING SURVEY 3 credits Prerequisite: permission of instructor. Introductory course for student with no previous accounting background. Essential accounting concepts, techniques and terminology for business organizations
- 402 ADVANCED COST ACCOUNTING 3 credits Prerequisite: 301. Study of use of standard cost procedures, job-order costing procedures and advanced problems in area of cost accounting.
- 408 INTERNATIONAL FINANCIAL REPORTING AND ANALYSIS 3 credits Prerequisites: 201, 202 and 6400:371 or equivalent. Understanding international accounting standards, preparing and analyzing foreign financial statements, international tax issues, accounting for foreign currency transactions, understanding transfer pricing and international auditing.
- TAXATION FOR FINANCIAL PLANNING Provides students preparing for careers in financial planning with the necessary knowledge of federal tax law as applied to individuals and businesses. Not open to accounting majors.
- 420/520 ADVANCED ACCOUNTING 3 credits Prerequisite: 321 and 322. Examination of accounting theory emphasizing accounting for business combinations, partnerships, foreign operations, nonprofit entities and consolidated statements.
- 425 CURRENT DEVELOPMENTS IN ACCOUNTING 3 credits Prerequisite: 322. Official pronouncements of Accounting Principles Board, Financial Accounting Standards Board and Securities and Exchange Commission, and other current developments in accounting theory
- 430/530 TAXATION I 3 credits Prerequisite: 320 or 621. Federal tax law related to individuals. Master of Taxation students will not be able to take this course to satisfy tax electives in the Master of Taxation program.
- 431/531 TAXATION II 3 credits Prerequisite: 430/530 or permission. Federal income tax law related to partnerships, corporations, trusts and estates; also includes an overview of federal estate and gift tax law.
- 440/540 AUDITING 3 credits Prerequisites: 320; 321; and 430, 454 and 6500:221 must be taken prior to or concurrently with; or permission of instructor. Examines auditing standards and procedures used by independent auditor in determining whether a firm has fairly represented its financial position.
- INFORMATION SYSTEMS AUDIT AND CONTROL 3 credits 441 Prerequisite: 440 and 454 or permission of instructor. Learn the fundamental concepts and practices of information systems audit control. Use control objectives and standards by information systems control, audit and security organizations.
- 454 INFORMATION SYSTEMS SECURITY 3 credits Prerequisites: 202 and 320 (must be taken by accounting majors) or 6500:310. Focus on information systems risk and security in distributed business environments; develop policies, practices and systems for security or computers and data in business and Internet.
- 460 ADVANCED MANAGERIAL ACCOUNTING 3 credits Prerequisites: 301; 6400:371; and 6500:330. The use of financial and non-financial information in decision making in both public and private sectors. Problem solving approach is emphasized.
- 470/570 GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING 3 credits Prerequisites: 320 or 601. Theory and procedures involved in application of fund accounting, budgetary control, appropriations and various accounting systems to governmental units, educational, medical and other nonprofit institutions.
- 480/580 ACCOUNTING PROBLEMS 3 credits Prerequisite: 322. Independent research on advanced accounting problem in student's specific area of interest.
- 485 CPA PROBLEMS: COMMERCIAL LAW 3 credits Prerequisite: permission of instructor. Legal aspects of government regulation of business: applications of uniform commercial code in sales, commercial paper and secured transactions; wills, estates, trusts, bailments, suretyship, bankruptcy.
- CPA PROBLEMS: ACCOUNTING PRACTICE 486 3 credits Prerequisite: permission of instructor. Study of methods for solving various types of problems which appear on accounting practice section of CPA examination.
- CPA PROBLEMS: TAXATION 487 1 credit Prerequisite: permission of instructor. Application of current developments in federal income tax law to CPA examination.

488/588 CPA PROBLEMS: AUDITING

2 credits Prerequisite: 440/540 or permission of instructor. Preparation for auditing section of CPA examination, focusing on auditing principles, standards and ethics and situations encountered by independent auditor

489/589 CPA PROBLEMS: THEORY

Prerequisite: permission of instructor. Preparation for theory section of CPA examination, focusing on current developments and use of basic accounting theory to solve advanced accounting problems

490/590 SPECIAL TOPICS IN ACCOUNTING Prerequisite: Permission of instructor. Opportunity to study special topics and current issues in accounting. May be repeated with a change of subject.

491/591 WORKSHOP IN ACCOUNTING

1-3 credits (May be repeated) Prerequisite: permission of instructor. Group study of accounting under faculty guidance. May not be used to meet undergraduate or graduate accounting major requirements, but may be used for elective credit only with permission of instructor or department

495 INTERNSHIP IN ACCOUNTING

3 credits (credit/non-credit) Prerequisite: permission of instructor. On-the-job training for student in field of public, industrial or nonprofit accounting. Individual assignments made by supervising faculty member.

497 HONORS PROJECT (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. Individual senior honors thesis or creative project relevant to accounting approved and super-

499 INDEPENDENT STUDY IN ACCOUNTING 1-3 credits Prerequisite: permission.

ENTREPRENEURSHIP

6300:

201 INTRODUCTION TO ENTREPRENEURSHIP

vised by member of the department faculty

An introduction to the entrepreneurial principles of starting, managing and marketing a new business. Open to all university students.

- 301 NEW VENTURE CREATION 3 credits Prerequisite: 6400:371 and 6600:300. Through lectures, cases, guest speakers, exercises and team business plan development, the course simulates the entrepreneurial process. Open to College of Business students only.
- 330 FINANCING NEW VENTURES 3 credits Prerequisite: 301. Exploration of financing, legal, taxation, and insurance issues involved with entrepreneurial ventures.

360 ENTREPRENEURIAL FIELD PROJECT

Prerequisites: 301 or 303, and 330; or permission of the instructor. A practical field experience where students work in a consulting role on an actual entrepreneurial project involving a small business development center, a small business incubator, or an existing small business

450 BUSINESS PLAN DEVELOPMENT

Prerequisite: 301. Students will work independently, with mentoring from the instructor, on an entrepreneurial project. Students will gain hands-on experience in developing a business plan for starting, acquiring, or expanding a business.

FINANCE

6400:

220 THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS

Prerequisite: completion of 32 credits. Explores the legal and social environment in which modern business must function. The legal system, public and private law, and contemporary social and ethical issues are addressed.

290 CAREER PLANNING AND ANALYSIS

1 credit Prerequisite: completion of 32 credits. Analysis of career opportunities in finance, business and government. Includes career planning, resume preparation, review of University services, and job search techniques.

321 BUSINESS LAW I

3 credits Prerequisite: completion of 64 credits. Discussions designed to develop legal reasoning within substantive areas of contractual obligation, agency relationships, partnerships, corporations, accountant's legal responsibility, federal securities regulation and antitrust law.

322 BUSINESS LAW II

Prerequisite: completion of 64 credits. Applications of Uniform Commercial Code in sales, com-mercial paper and secured transactions. Additional discussions include property, wills, estates, trusts, bailments, insurance, suretyship, bankruptcy, and labor law.

323 INTERNATIONAL BUSINESS LAW

The law and international commercial transactions. Among the subjects covered are sovereignty; treaties; agreements; antitrust practices; property rights; international arbitration.

BUSINESS AND SOCIETY

Conceptual course considers financial, economic, legal and sociopolitical implications of busi-ness in society. Issues related to economic and legal framework for business decisions.

332 PERSONAL FINANCIAL PLANNING

Prerequisite: 371: 6200:250 or 255: or permission of instructor. Capstone financial services course emphasizing theory and case study applications of the comprehensive personal and professional planning process.

338 FINANCIAL MARKETS AND INSTITUTIONS

Prerequisite: 371 or 6140:370 or permission of instructor.. Studies the flows of funds. Analyzes major financial intermediaries. Money and capital markets reviewed with emphasis on interest rates and their impact upon administration of specific financial intermediaries.

343 INVESTMENTS

2 credits

1-3 credits

1-3 credits

3 credits Prerequisites: 6500:221; 371 or 6140:370; or permission of instructor. Range of security investment media explored, alternative investment programs considered and role of securities markets through which goals can be achieved studied.

3 credits

3 credits

3 credits

371 BUSINESS FINANCE

Prerequisites: 3250:200; 3450:141 or 3450:289A or 3450:145; and 6200: 201; completion of 48 credits. An overview of the financial system and the major decision areas of the financial manager such as capital budgeting, financing, and working capital management. 3 credits

379 ADVANCED BUSINESS FINANCE

Prerequisite: 371; 6200:250 or 255; 6500:222; or permission of instructor. Theory and application of capital budgeting, capital structure, leasing, working capital management, and dividend policy within the financial information system. 390 REAL ESTATE PRINCIPLES: A VALUE APPROACH 3 credits A study of real estate: the profession, the process, and the product. Emphasis is on real estate

as a product and the valuation process. The measurement of value requires tool abilities in accounting, statistics and finance.

402 INCOME PROPERTY APPRAISAL 3 credits Prerequisites: 371 or 6140:370 or permission of instructor, Advanced course in real property appraisal and valuation. Techniques and concepts will be covered along with the theory underlying such techniques.

403 REAL ESTATE FINANCE 3 credits Prerequisites: 371 or 6140:370 or permission of instructor. Advanced course in real estate cover ing financing of and investment in real property. Included are investment techniques, methods, institutions, instruments, valuation, appraisal and policy issues.

415 RISK MANAGEMENT AND INSURANCE

3 credits Prerequisite: 371 or 6140:370; or permission of instructor. Concepts of life and health insurance, property and casualty insurance, and risk and nsk management are addressed, including analysis of employee benefit issues.

424 LEGAL CONCEPTS OF REAL ESTATE

Study of concepts of law governing the many interests in real estate including acquisition, encumbrance, transfer, rights and obligations of parties, and the various state and federal regula tions. The legal concepts of the business of real estate are likewise examined. Emphasis is on a managerial approach utilizing the case method.

432 SEMINAR IN FINANCIAL PLANNING

3 credits Prerequisites: 332 or permission of instructor; and 6200:410, 6400:343 and 415 must be taken prior to or concurrently. Explores financial planning function, including contact, data acquisition, plan development and implementation; addresses planning techniques and financial planning ethical issues.

436 COMMERCIAL BANK MANAGEMENT 3 credits

Prerequisite: 371 or 6140:370; 6200: 250 or 255; or permission of instructor. Study of administrative policy determination and decision making within the commercial bank. Analysis of policy making in areas of liquidity, loan and security investment and sources of funds.

438/538 INTERNATIONAL BANKING

Prerequisite: 371 or 602. Examination of recent trends in the expansion of international banking activities and associated revenue maximizing strategies. 447 SECURITY AND PORTFOLIO ANALYSIS 3 credits

- Prerequisite: 343; and 6200:250 or 255; or permission of instructor. Application of quantitative and qualitative techniques of analysis to fixed income and equity securities, and their composition weights in portfolios during different time periods.
- 473 FINANCIAL STATEMENT ANALYSIS 3 credits Prerequisites: 371: 6200:250 or 255: or permission of instructor, Analysis and interpretation of
- the financial position and performance of the business firm from the perspective of the credit and financial analyst. Emphasizes mechanics and art of financial analysis. 475 COMMERCIAL AND CONSUMER CREDIT MANAGEMENT 3 credits
- Prerequisite: 371; 6200:250 or 255; or permission of instructor. An examination of the role of credit; the application, investigation, authorization, collection and legal processes principally from the point of view of the business manager.
- 481 INTERNATIONAL BUSINESS FINANCE 3 credits Prerequisite: 371 or permission of instructor. Theory and practice of financial wealth maximization in the international business enterprise
- 485 FINANCIAL STRATEGY 3 credits Prerequisite: senior standing; 379; or permission of instructor. Capstone course with applications of financial management theories and tools to decisions in capital budgeting, capital structure, and working capital management,
- 490 SELECTED TOPICS IN FINANCE 1-3 credits Prerequisite: 371; 6200:250 or 255. Provides opportunity for study of special topics not covered in current finance courses
- 491/591 WORKSHOP IN FINANCE 1-3 credits (May be repeated) Group studies of special topics. May not be used to meet undergraduate or graduate major requirements in finance. May be used for elective credit only with permission of instructor or department.
- 495 INTERNSHIP IN FINANCE 1-3 credits Prerequisite: 6400:371, and 6200:250 or 255. On-the-job experience with cooperating private and public sector organizations. Individual assignments made by supervising faculty member. Periodic reports and term papers required as appropriate.
- 497 HONORS PROJECT 1-3 credits (May be repeated for a total of six credits) Prerequisite; senior standing in Honors Program Individual senior honors thesis or creative project relevant to finance approved and supervised by member of the department faculty.
- 499 INDEPENDENT STUDY: FINANCE 1-3 credits Prerequisite: permission of department head. Provides means for individualized in-depth study of finance problem or problems from which student can derive significant benefit.

MANAGEMENT

6500:

200 CAREER ORIENTATION: MANAGEMENT 1 credit Reviews the academic requirements for management majors, examines professional skills and personal characteristics required for success, and requires the development of an academic/career plan. 221 QUANTITATIVE BUSINESS ANALYSIS I Prerequisite: 3450:145 or 3450:289 or 3450:141. Descriptive statistics: probability; sampling distributions; interval estimation; single sample hypothesis testing and p-values. Case analysis with written and oral team reports will be used. 222 QUANTITATIVE BUSINESS ANALYSIS 3 credits Prerequisite: 221. Continuation of hypothesis testing; ANOVA; simple and multiple linear regres sion; nonparametric procedures; time series analysis; chi-square tests of goodness of fit and of association. Case analysis with written and oral team reports will be used. 301 MANAGEMENT: PRINCIPLES AND CONCEPTS 3 credits Prerequisites: 48 completed credit hours and three credits in behavioral science, economics, mathematics. An interdisciplinary approach to the study of the basic principles of general management theory and practice 302 ORGANIZATIONAL BEHAVIOR AND LEADERSHIP SKILLS 3 credits Prerequisite: 301. Investigation of applications of behavioral and social sciences as they relate to individual, group behavior in organizations. 310 BUSINESS INFORMATION SYSTEMS 3 credits

Prerequisites: 48 completed credit hours and 6200:250 or equivalent. Provides a technical and organizational foundation for understanding the use and importance of information systems and information technology in today's business environment.

315 APPLICATIONS DEVELOPMENT FOR BUSINESS PROCESSES 3 credits Prerequisite: 6200:250 and 48 completed hours. Analysis and automation of business operations and processes. Development of applications based on a simulated enterprise-wide database.

324 DATA MANAGEMENT FOR INFORMATION SYSTEMS 3 credits Prerequisites: upper-college standing, 64 completed credit hours and 310 and 315. Developing business application systems using database management systems software, including sequentia and random files, finding and arranging records, and database management systems applications.

325 ANALYSIS, DESIGN AND DEVELOPMENT OF INFORMATION SYSTEMS 3 credits Prerequisite: 310 or 6200:320, 315. In-depth coverage of the analysis, design, development, imple-mentation and maintenance of computer-based and Web-based information systems.

330 PRINCIPLES OF OPERATIONS MANAGEMENT 3 credits Prerequisites: 301 and 221 or equivalent. An overview of the terminology, fundamental concepts and functional scope of responsibility encountered in the field of operations management.

333 PRODUCTION AND OPERATIONS ANALYSIS 3 credits Prerequisites: 222 and 330. Application of quantitative models in the analysis and design of operational systems in manufacturing and service environments.

334 SERVICE OPERATIONS MANAGEMENT 3 credits Prerequisite: 330. An overview of the fundamental terminology, principles, concepts and problem solving methods encountered in the contemporary field of service operations management.

341 HUMAN RESOURCE MANAGEMENT 3 credits Prerequisites: one course in psychology and/or sociology and 301. Principles, policies, practices in administering functions of recruiting, selecting, training, compensating, appraising human resources of organizations.

342 LABOR RELATIONS

3 credits Prerequisite: 64 completed credit hours and 341. Analysis of management, union and employee objectives, attitudes and strategy, as they affect conduct of business and economy. Stress placed on group assigned readings and reports.

350 FUNDAMENTALS OF ENTERPRISE RESOURCE PLANNING

Prerequisites: 6200; 250 Computer Applications for Business and 48 completed credit hours. The enterprise wide process of decreasing operating costs, rationalizing the supply chain, improving management control, and decreasing cycle time by implementing ERP based solutions

407 SMALL BUSINESS MANAGEMENT

Prerequisite: 301. Focuses on problems of organizing and operating a small business. Case studies and field experiences.

408/508 ENTREPRENEURSHIP

3 credits Prerequisites: upper-college or graduate standing and 301 or 600 or equivalent. Examines the behavior and environment for entrepreneurship. Focuses on classic and contemporary entrepreneurs and the importance of personal values and strategies. Case studies. Field projects.

410/510 SELECTED TOPICS IN ENTREPRENEURSHIP

Prerequisites: upper-college or graduate standing and 301 or 600 or equivalent. Facilitates comparative international study of entrepreneurship, introduction of entrepreneurship to large organizations, or application of student's entrepreneurial skills. Six hour limit.

420 TELECOMMUNICATIONS FOR BUSINESS

3 credits Pre-requisites: 310 and 64 completed credit hours. Principles of telecommunications technologies and their use for competitive advantage.

421 OPERATIONS RESEARCH

Prerequisite: 330. Examines the use of operations research techniques in managerial decisionmaking processes; constrained linear optimization, non-linear optimization, network analysis, queuing theory, simulation.

425 DECISION SUPPORT WITH DATA WAREHOUSES AND DATA MINING 3 credits

Prerequisite: 324. Examines managerial and technical aspects of business decision-making based on the use of data warehouses, on-line analytical processing (OLAP) and data mining.

426 E-BUSINESS INFRASTRUCTURE MANAGEMENT 3 credits Prerequisite: 64 completed credit hours and 325. Provides students with skills related to, and knowledge of, development, management, and maintenance of E-Business infrastructure. The focus is on understanding and analyzing E-Business scalability.

- 3 credits 427 E-BUSINESS SYSTEMS INTEGRATION Prerequisite: 312 and 325. Managing and integrating website applications for e-Business including emerging standards, Business-to-Business and Business-to-Computer applications and specific platforms such as extensible Markup Language (XML) and other web-enabling technologies.
- 433 BUSINESS OPERATIONAL PLANNING 3 credits Prerequisite: 64 completed credit hours and 333. Emphasizes the importance of planning in the operations process. Includes forecasting and production management simulation exercises. Also introduces the concept and philosophy of continuous improvement.
- 434 PRODUCTION PLANNING AND CONTROL 3 credits Prerequisite: 64 completed credit hours and 333. Coverage of materials management, production planning, scheduling and control. Integrates material from previous courses, provides overall frame-work including use of computer and quantitative methods.
- 435 OLIALITY MANAGEMENT AND CONTROL 3 credits Prerequisites: 64 completed credit hours and 330. Emphasis on statistical techniques essential to controlling product quality for both measurement and attribute data. Includes control chart methods and acceptance sampling plans.
- 436 ADVANCED QUALITY CONTROL APPLICATIONS 3 credits Prerequisite: 222 and 435. Applications of advanced topics including exponential and cusum charts, experimental design, evolutionary operations (EVOPS), planned experimentation (PLEX) and management of the quality function
- 438 PRODUCT QUALITY DESIGN TECHNIQUES 3 credits Prerequisite: 222 and 435. Describes the techniques of designing quality into a product. It includes determining customer needs, Taguchi methods of quality loss functions and experimental design, reliability and service.
- 442 COMPENSATION MANAGEMENT 3 credits Prerequisite: 64 completed credit hours and 341. Focus on the design, implementation and evaluation of employee compensation and benefits programs.
- 443 HUMAN RESOURCES SELECTION AND STAFFING 3 credits Prerequisite: 64 completed credit hours and 341. Advanced study of selection and staffing within business organizations. Emphasis on current research and practice. Activities include projects, case studies, interaction with human resource professionals.

457 INTERNATIONAL MANAGEMENT 3 credits Prerequisites: upper-college standing and 301 or equivalent. Management practices and tech-

niques of international business organizations. Focus on structure and processes of resource allocation, design and technology, and the impact of culture.

458 SELECTED TOPICS IN MANAGERIAL ARBITRATION, MEDIATION 1-3 credits AND CONCILIATION

Prerequisites: upper-college or graduate standing and 301 or 600 or equivalent. Study of the various methods and mechanisms by which management can understand and deal with internal and external conflict. Six hour limit.

459 SELECTED TOPICS IN INTERNATIONAL MANAGEMENT 1-3 credits Prerequisites: upper-college standing; 301 or equivalent; and 457; or permission of instructor. Selected topics in international management focus on historical or contemporary managerial, pro-

duction and organizational issues. Includes international simulation game. Six hour limit.

460 SPECIAL TOPICS IN MANAGEMENT 3 credits Exploration of advanced topics of interest both to the student and professor. Many special applications, case studies, outside speakers, projects in conjunction with local industries.

471/571 MANAGEMENT PROJECT

3 credits Prerequisite: 435 and two from [334, 433 and 434*] or 342, 442 and 443* or 6600:390 and two from [334, 433, 434, 435 and 6600:370*] or 6200:460 and one from [334, 433 and 434*] or 324, 426, 427 or 324, 325, 350, 420 and two from [333, 341, 425, 426. Capstone course in which the student applies the principles, practices, theories of his/her concentration area to an actual problem in an organization.

477 MANAGEMENT SIMULATION

3 credits

3 credits

1-3 credits

3 credits

1 credit Prerequisite: 301. Simulation of management practices through computerized game or experiential exercise

478 HUMAN RESOURCE SIMULATION

Prerequisite: 341. Simulation of human resource practices through computerized or experiential exercises.

1 credit

1 credit

479 OPERATIONS SIMULATION

Prerequisite: 333. Simulation of operations management practices through computerized or experiential exercises.

480/580 INTRODUCTION TO HEALTH-CARE MANAGEMENT

3 credits Prerequisites: upper-college or graduate standing (Students who are required to take 301 or 600 or have completed 301 or 600 or equivalent are ineligible to take this course for credit). Introductory course for health professionals covering principles and concepts of management applied to health services organizations. For those registered for graduate credit, a major paper is required.

482/582 HEALTH SERVICES OPERATIONS MANAGEMENT 3 credits

Prerequisites: upper-college standing and 301 or 480 or equivalents, or graduate standing and 580 or 600 or equivalent, or permission of instructor. (Students who have completed 330 are ineligible to take this course for credit). Application of production and operations management concepts and techniques in health services organizations.

485/585 SPECIAL TOPICS IN HEALTH SERVICES ADMINISTRATION 1-3 credits Prerequisite: permission of instructor. Special topics in health services administration (e.g., management)

focusing on historical and/or contemporary managerial organizational and/or policy/strategy issues as related to health-care organizations and health-care systems. Separate topics may be repeated for a maximum of six credits. For those registered for graduate credit, a major research paper is required.

A student who has completed all but one of the required course prerequisites may enroll in the last required course concurrently with 471 with permission from the department management chair.

490 BUSINESS POLICY 3 credits Prerequisites: 97 credits and 6500:222, 301, 330; 6200:202, 250 or 255; 6400:371, 220 or 321; 6600:300; 6800:305. Capstone course. Integrates the core business disciplines (accounting, economics, finance, management, marketing) through the use of case analysis. Objective and strategy formulation from an administrative viewpoint and international dimension. Emphasis on oral and written communications.

WORKSHOP IN MANAGEMENT 491

1-3 credits (May be repeated with permission of instructor or department) Group studies of special topics in nanagement. May not be used to meet undergraduate major requirements in management. May be used for elective credits only.

495 INTERNSHIP IN MANAGEMENT

1-3 credits Prerequisite: permission of instructor. On-the-job experience with cooperating private and public sector organizations. Individual assignments made by supervising faculty member. Penodic reports, term papers required as appropriate.

HONORS PROJECT 497

3 credits (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. Individual senior honors thesis or creative project relevant to management approved and supervised by member of the department faculty.

499 INDEPENDENT STUDY: MANAGEMENT

1-3 credits Prerequisites: senior standing and permission of department head. Provides a means for individualized study in management from which student can derive significant value.

MARKETING

6600:

275 PROFESSIONAL SELLING

3 credits Prerequisite: 25 credits or permission from instructor. Builds communication skills while learning about buyer needs, prospecting, making sales presentations, persuading, overcoming sales resistance, closing s, and building relationships.

293 CAREER ORIENTATION

Reviews academic requirements for marketing and advertising majors and examines the professional skills and personal attributes required for a successful business career. Develops student career plan.

300 MARKETING PRINCIPLES

3 credits Prerequisite: 48 hours of college credit. A general survey of marketing activities including analy-sis of markets, competition, consumer behavior, information systems, and the assessment of product, price, distribution, and promotion strategies.

345 E-MARKETING PRACTICES

Prerequisite: 300 and 6100:201. The new processes and new media that have been ushered in by the electronic age are studied in the context of more traditional marketing practices. Marketing to consumers as well as other organizations and finding sources of information are considered

350 INTEGRATED MARKETING COMMUNICATIONS

Prerequisite: 300. This is a survey of the communication tools used by marketing companies to reach and sustain contact with customers and prospects. The emphasis is on the strategic function of a market-driven "toolbox" of opportunities including advertising, sales promotion, online direct response, publicity (public relations), and face-to-face presentation. In this, the course stresses an integrative concept, using any combination of activities that fulfills an organization's core strategy.

355 BUYER BEHAVIOR

Prerequisite: 300. Interdisciplinary approach to the analysis of the nature of consumer buying behevior. Economical, social, and psychological influences on consumers' decision-making processes are examined.

370 PURCHASING

3 credits Prerequisite: 300. Process and activities associated with cost effective buying, international management of all materials and the equipment needed by the manufacturer to produce a product or provide a service.

385 INTERNATIONAL MARKETING

3 credits Prerequisite: 300. Provides a basic understanding of the complexities of foreign marketing. It assumes knowledge of the basic international business course.

- 390 PRINCIPLES OF SUPPLY CHAIN MANAGEMENT
- Prerequisite: 300. An integrative approach to the study of marketing institutions, distribution chan-nels, and business logistics. Stresses the creation of value through the planning and implementing of cooperative relationships, coordinated flow, and reliable supplies of goods and services.

400 E-MARKETING PROMOTIONS

3 credits Prerequisite: 345. A keystone course exposing students to the highly specialized promotional practices in a web-centric marketplace.

420 E-MARKETING PRACTICUM

3 credits Prerequisite: 345, 400. A course designed to offer the student a customized experience with the highly specialized promotional practices in a web-centric marketplace.

440 PRODUCT AND BRAND MANAGEMENT

Prerequisite: 300. Applied investigation into the management of new product development, product life cycle, product mix strategies, brand positioning, brand image, and brand equity

STRATEGIC RETAIL MANAGEMENT

Prerequisite: 300. Investigation of strategic and tactical retail decisions and issues through the use of case analysis, computer applications, experiential games, and field projects.

460 MARKETING RESEARCH

Prerequisites: 300, 6500:221. Emphasizes problem definition and solution approach to marketing research decisions. Situation and data analysis skills are developed through lectures, cases, field projects, and computer applications.

475 BUSINESS NEGOTIATIONS 3 credits Prerequisite: 25 credits or permission from instructor. Examines business negotiation principles and practices, and builds skills in the process of negotiating business agreements.

480 SALES MANAGEMENT 3 credits Prerequisite: 300. Develops analytical and managerial skills through case studies and other learning activities relating to the organization, selection, training, motivation, and control of a sales force.

485 GLOBAL SALES STRATEGY 3 credits Prerequisites: 300 and 6800:305. Examines the concepts and complexities of selling on a global basis. Covers international aspects of selling, sales management, and business negotiations.

490 MARKETING STRATEGY 3 credits Prerequisites: 90 credits. Capstone course stressing integration of marketing functions through development of strategic thinking and analytical skills. Course employs case analysis, computer applications, and field projects.

WORKSHOP IN MARKETING 1-3 credits Group studies in special topics in marketing. May not be used to meet major requirements in

493 CAREER MANAGEMENT

1 credit

3 credits

1 credit Prerequisite: Senior standing. Examines major steps in organizing and conducting successful job searches. Students conduct career and market audits, develop resumes and letters, and participate in mock interviews.

INTERNSHIP IN MARKETING

Prerequisite: permission of instructor. On-the-job experience with cooperating private and public sector organizations. Individual assignments made by supervising faculty member. Periodic reports and term papers required as appropriate.

1-3 credits

1 credit

496 SPECIAL TOPICS IN MARKETING 1-3 credits Prerequisite: 300. (May be repeated for a total of three credits.) Provides an opportunity to examine special topics and/or current issues in the fields of marketing, sales retailing or advertising.

- 497 HONORS PROJECT 1-3 credits (May be repeated for a total of six credits.) Prerequisite: senior standing in Honors Program. Individual senior honors thesis or creative project, relevant to marketing, approved and supervised by member of the department faculty.
- 499 INDEPENDENT STUDY: MARKETING 1-3 credits Prerequisite: permission of instructor. Provides a means for individualized in-depth study of a marketing problem or problems from which student can derive significant benefit. May not be used to meet major requirements in marketing.

INTERNATIONAL BUSINESS 6800:

290 GLOBAL BUSINESS PERSPECTIVES

A general introduction to the field of international business. Examines the professional skills, per-sonal attributes, international experiences, and academic training required for a successful career in international business

305 INTERNATIONAL BUSINESS 3 credits Prerequisite: 48 hours of college credit. A basic course in international business which can also provide a platform for more specialized international business courses.

405 MULTINATIONAL CORPORATIONS Prerequisite: 305 or permission of instructor. Course provides in-depth understanding of the functions, structures and strategic considerations governing the MNCs through theory and case study analysis.

421 INTERNATIONAL BUSINESS PRACTICES 3 credits Prerequisite: 305 or permission of instructor. An examination and comparison of contemporary business practices around the world. Develops sensitivity to alternative business practices and includes a strong component of cross-cultural communications.

494 INTERNATIONAL BUSINESS PRACTICUM 1-3 credits Prerequisite: 305 or permission of instructor. A customized group or individual activity designed to provide the student with a meaningful international experience. A qualified experience might include foreign travel, study abroad programs, international field studies, international exchange programs, or other customized international adventures. All practicums must be approved and supervised by the international business faculty and administration.

- 495 INTERNSHIP IN INTERNATIONAL BUSINESS 1-3 credits Prerequisite: Permission of instructor. On-the-job experience with private or public sector organizations that operate within the global environment, Individual assignments made by supervising faculty member. Periodic reports and term papers required as appropriate.
- 496 SPECIAL TOPICS IN INTERNATIONAL BUSINESS 1-3 credits (May be repeated for a total of three credits) Prerequisite: Permission of instructor. Provides the opportunity to study special topics and current issues in international business.

497 HONORS PROJECT 1-3 credits (May be repeated for a total of six credits.) Prerequisite: senior standing in Honors Program. Individual senior honors thesis or creative project, relevant to international business, approved and supervised by member of the department faculty.

499 INDEPENDENT STUDY: INTERNATIONAL BUSINESS 1-3 credits Prerequisite: permission of instructor. Provides a means for individualized in-depth study of an international business problem or problems from which student can derive significant benefit.

Note: Other international business courses are offered under departmental course numbers. They are 6200:408, 6400:323, 6400:481, 6500:457, 6500:459 and 6600:385.

College of Fine and Applied Arts

COOPERATIVE EDUCATION

0 credits

4 credits

0 credits

3 credits

7000:

required.

COOPERATIVE EDUCATION (May be repeated) For cooperative education students only. Work experience in business industry, or governmental agency. Comprehensive performance evaluation and written report

ART

7100:

- 100 SURVEY OF HISTORY OF ART I
- Architecture, sculpture, painting and minor arts from primitive sources through Gothic time period in Europe
- 101 SURVEY OF HISTORY OF ART II 4 credits Prerequisite: 100. Architecture, sculpture, painting and minor arts from Renaissance through more recent times, primarily in Western art.
- 103 ARTS ORIENTATION

Corequisite: with first 7100 art course. Orientation to the information and strategies necessary to aid new art students in their understanding of the field of art.

131 INTRODUCTION TO DRAWING

Corequisite: 103. Introduction to drawing materials and techniques with an emphasis on observation, representation, and formal principles of composition and design.

132 DRAWING FOR DESIGNERS

Creative uses of mechanical drawing processes for visually descriptive purposes. Proficiency in use of mechanical drawing instruments stressed. Both practical and theoretical drawing styles undertaken.

144 TWO-DIMENSIONAL DESIGN

3 credits Fundamental information about the theory and practice of visual design as applied to surfaces, including composition, color and pictorial illusions with lecture and studio experience.

145 THREE-DIMENSIONAL DESIGN

Introduction to meaning of "design" and act of designing in real space. Study of naturally occurring form, structure and process.

170 FUNDAMENTALS OF PHOTOGRAPHY

A study of photography through lecture, demonstration and studio work. An exploration and enrichment opportunity for the non-art major. No credit toward major in art.

180 FUNDAMENTALS OF GRAPHIC DESIGN

A study of graphic design through lecture and studio work in a variety of media. An exploration and enrichment opportunity for the non-art major. No credit toward a major in art.

184 GRAPHIC DESIGN PRINCIPLES

3 credits Prerequisite: 144. Studio experience in concept development and processes, tools and materials of graphic designers. Elementary design problems in graphic design.

185 INTRODUCTION TO COMPUTER GRAPHICS

3 credits (May be repeated for a total of six credits) Prerequisites: 131 and 144 or permission of instructor. Introduction to the use of microcomputers as a creative tool for visual artists and designers.

210 VISUAL ARTS AWARENESS

3 credits Prerequisite: 3400:210. Lecture course providing appreciation and understanding of arts of various types/periods with emphasis on topics and influences on societies, rather than historical

213 INTRODUCTION TO LITHOGRAPHY

3 credits Prerequisites: 131, 144. Use of lithographic stone and metal plate as printmaking media. Stone and plate preparation, lithographic drawing materials and techniques, paper registration and printing press covered. Emphasis on aesthetic theory, technique and related history.

214 INTRODUCTION TO SCREEN PRINTING

3 credits Prerequisites: 131, 144. Silk screen printmaking. Theory and use of stencil process, positive and negative block-out techniques, photo stencil, registration and printing procedures. Emphasis on aesthetic theory, technique and related history.

215 INTRODUCTION TO RELIEF PRINTING

3 credits Prerequisites: 131, 144. Printmaking using found objects, synthetic materials, as well as traditional woodcut and linoleum engraving. Emphasis on aesthetic theory, technique and related history.

216 INTRODUCTION TO INTAGLIO PRINTING

rerequisites: 131, 144. Intaglio printmaking using drypoint engraving, aquatint and soft-ground techniques. Emphasis on aesthetic theory, technique and related history.

222 INTRODUCTION TO SCULPTURE

Prerequisite: 145. Exploration of aesthetic factors influencing sculptural statements. Development of proficiency in the use of tools, materials and techniques.

231 DRAWING II

3 credits Prerequisite: 131. Continued investigation of basic drawing concepts. Introduction to drawing in color with further development of observation, design, technique and conceptual skills

- 233 LIFE DRAWING 3 credits Prerequisite: 131, Perceptual problems in drawing from the life model. Study of skeletal, muscular, mechanical nature of human figure and application of this knowledge to the resolution of aesthetic problems.
- 234 ANATOMY FOR ARTISTS 3 credits Prerequisite: 233. Studio/lecture experience in drawing and sculpture with an emphasis on human skeletal, muscular, and surface structure.
- INTRODUCTION TO PAINTING 3 credits 243 Prerequisites: 131, 144. Study of aesthetic and technical problems involved in painting. Emphasis on painting from observation, and understanding of color in painting.

244 COLOR CONCEPTS 3 credits Prerequisites: 131 and 144. Lecture and studio experience giving information concerning perception of color, additive color phenomena of light, subtractive color phenomena of pigments and dyes, color notation systems and psychological effects of color.

246 INTRODUCTION TO WATERCOLOR PAINTING 3 credits Prerequisites: 131, 144. Studio course in theory and technique of watercolor painting. Study of traditional transparent watercolor methods, and experimentation with less conventional approaches to aqueous media

AIRBRUSH TECHNIQUES 248 3 credits Prerequisites: 131 and 144. Introduction to airbrush painting techniques with water-based media. Projects progress from exercises to personal expression.

- 249 FIGURE PAINTING 3 credits Prerequisites: 233 and 245, 246, or 247. Painting course with an emphasis on painting the figure from life
- 0 credits 250 FOUNDATIONS REVIEW Prerequisites: 131, 144, 145, 233. Credit/noncredit course. Faculty review of art foundation studio work from prerequisite/corequisite courses.
- 254 INTRODUCTION TO CERAMICS 3 credits Prerequisites: 131, 144. Studio/lecture course exploring potentials of hand-building techniques in both sculptural and functional forms. Clay processing, glaze application and practical kiln finng.
- 266 INTRODUCTION TO METALSMITHING 3 credits Prerequisite: 145, 144. Studio experience in which student is introduced to properties of metals, processes of silversmithing and design and production of iewelry.

COLOR IN METALS 268 3 credits Prerequisite: 366. Introduction to a variety of techniques to achieve and/or combine color in metals. Techniques such as anodizing aluminum, enameling and the application of color resins and plastics will be explored.

- 275 INTRODUCTION TO PHOTOGRAPHY 3 credits Prerequisites: 131, 144. Lecture, studio and laboratory course. Techniques and aesthetics are studied using both 4x5 and 35mm carneras. A 35mm carnera with full manual control is required.
- 276 INTRODUCTION TO PROFESSIONAL PHOTOGRAPHY 3 credits Prerequisite: 275. Students are introduced to the numerous commercial applications of studio and location photography while working through a series of advertising related photographic projects.
- WEB PAGE DESIGN 3 credits 281 Prerequisite: 185. Introduction to the process of web page development. With an emphasis on creative exploration, students develop, format, and test content for internet distribution.

DRAWING TECHNIQUES 3 credits Prerequisites: 131 and 132. Includes advanced drawing and presentation techniques commonly used in graphic design. Various presentation and design problems will be encountered stressing use of selected drawing methods and processes.

285 DIGITAL IMAGING 3 credits (May be repeated for a total of six credits) Prerequisite: 185 or permission of instructor. An exploration of contemporary digital image capture, manipulation, output and distribution, emphasizing digital image concepts, aesthetics and production.

288 TYPOGRAPHY

3 credits Prerequisite: 184, 185. Introduction to typographic design to communicate. Study of letterforms, history, comping skills, layout design and digital technology.

289 INTERMEDIATE COMPUTER DESIGN 3 credits Prerequisite: 288. A computer-based tools course. Using industry standard software, students

focus on incorporating type and image to produce comprehensive design solutions. ART SINCE 1945 300 3 credits Prerequisite: 101 or permission of instructor. Consideration of significant developments in visual art forms since World War II in architecture, sculpture, printing, photography, metal, textile,

ceramics, printmaking and graphic design. 301 MEDIEVAL ART

3 credits Prerequisite: 101 or permission of instructor. Painting, mosaics, architecture, sculpture, and luxury arts of medieval Europe from 4th through 14th centuries.

ART IN EUROPE DURING THE 17TH AND 18TH CENTURIES 3 credits Prerequisite: 101 or permission of instructor. Analysis of major European examples of architec-ture, landscape design, painting, prints and sculpture from beginning of the 17th Century until approximately 1850.

RENAISSANCE ART IN ITALY 303 3 credits Prerequisite: 101 or permission of instructor. Study of architecture, painting and sculpture of Italy during 13th through 16th Centuries.

304 ART IN EUROPE DURING THE 19TH CENTURY 3 credits Prerequisite: 101 or permission of instructor. Study and analysis of major developments in visual arts in Europe from 1800 to 1900.

ART FROM 1900 TO 1945 305 3 credits

Prerequisite: 101 or permission of instructor. Study of significant developments in visual arts from approximately 1900 to 1945

306 RENAISSANCE ART IN NORTHERN EUROPE

3 credits Prerequisite: 101 or permission of instructor. Painting, architecture, and sculpture of northern Europe from 14th through 16th centuries.

317 PRINTMAKING H

3 credits Prerequisites: 213 or 214 or 215 or 216 in the appropriate medium. Continuation of studio work in printmaking with concentration in intaglio, relief, lithography, or screen printing. May be repeated for a total of 12 credits with a different process.

318 PORTRAIT FASHION PHOTOGRAPHY

3 credits Prerequisite: 276. The fundamentals of commercial portraiture and fashion photography are explored through the study of styling, posing, lighting, and working with people.

319 PRINTMAKING REVIEW

Prerequisites: 317. A committee of full-time faculty review portfolio of studio work completed in all printmaking courses

320 ILLUSTRATION/ADVERTISING PHOTOGRAPHY

3 credits Prerequisite: 276. Professionally oriented photographic skills are further developed as students confront assignments closely related to current trends in illustration and advertising photography.

321 FIGURATIVE SCULPTURE

Prerequisite: 233. Lecture/studio course exploring the use of the human figure as a sculptural subject. Individual interpretation of the figure using various media and techniques.

322 SCULPTURE II

3 credits (May be repeated for a total of nine credits) Prerequisite: 222 or permission. Continuation of 222. Addresses more advanced techniques. May include fabrication, casting, carving, or assemblage.

LOST WAX CASTING 3 credits Prerequisites: 7100:222 or 254 or 266 or 321. Bronze and aluminum casting using the lost wax process. Students learn foundry techniques and apply them to individual artistic statements.

335 INTERMEDIATE LIFE DRAWING

3 credits Prerequisites: 231, 233, Continued development of the content established in Life Drawing with additional emphasis on draped models, drawing materials and aesthetics.

348 INTERMEDIATE PAINTING

3 credits (May be repeated for a total of nine credits, but limited to a maximum of three credits in a given medium) Prerequisites: 245, 246 or 247 in the appropriate medium. Continuation of painting with concentration in one medium as follows: Polymer Acrylic, Watercolor, Oil.

349 INTERMEDIATE DRAWING

Prerequisites: 231, 233, 243, 348. Development of personal concepts and imagery through investigation of historical and contemporary styles and issues.

350 PAINTING/DRAWING PORTFOLIO REVIEW 0 credits Prerequisite: 349. A committee of full-time faculty reviews portfolio of studio work completed in

prerequisite/corequisite courses. 3 credits

354 CERAMICS II

Prerequisite: 254. Wheel throwing of both functional and sculptural form. Experiments in glaze chemistry and firing experience with both gas and electric kilns. Emphasis on technique, studio procedures and critical evaluation of each student's progress.

355 CONTEMPORARY ART ISSUES

Prerequisite: Completion of major review in selected field of study. Discussion course for advanced students in any visual arts discipline, dealing with concepts and critical theories related to current practice of the visual arts.

METALSMITHING II

3 credits (May be repeated for a total of six credits) Prerequisite: 266, Continuation of experiences presented in 266 with further development of skills and expansion of technical knowledge.

368 COLOR IN METALS II

(May be repeated for a total of nine credits) Prerequisite: 268. Continuation of 268. Advanced projects designed to develop the student's aesthetic values in color in metals. Emphasis on individual approach and experimentation.

370 HISTORY OF PHOTOGRAPHY

Prerequisite: 101. A lecture course studying the history of photography from its invention to contemporary issues.

375 PHOTOGRAPHY II

3 credits Prerequisite: 275. Projects utilizing photographic media and tools designed to expand student's awareness of visual qualities and order, both in the subject and photographic image. Student must own or have use of camera with controllable shutter, lens, diaphragm, focus and exposure meter.

381 DIGITAL IMAGING II

3 credits Prerequisite: 285. Advanced digital imaging development and manipulation with an emphasis on preparation and use of digital images in print, multimedia, and web applications.

MULTIMEDIA PRODUCTION 383

Prerequisite: 285. Introduction to the theory and methods of contemporary multimedia production. Exploration of the hardware/software employed in the organization, development and production of multimedia presentations.

384 GRAPHIC DESIGN PORTFOLIO REVIEW

0 credits Prerequisite: 288; corequisite: 387. A committee of full-time faculty review a portfolio of studio work completed in prerequisite/corequisite courses.

385 COMPUTER 3D MODELING AND ANIMATION

Prerequisites: 145, 185. Advanced computer imaging course with an emphasis in three-dimen-sional modeling and animation. Can be repeated for a total of 9 credits.

386 PACKAGING DESIGN

3 credits Prerequisite: 387 or permission of instructor. Synthesis of two- and three-dimensional visual thinking. Research in materials applicable to packaging of various products. Assignment of projects stressing development of conventional and experimental package design.

ADVERTISING LAYOUT DESIGN 387

Prerequisites: 275, 283, 288. Corequisite: 276. Use of design systems and grids to develop skills from concept through final comprehensive presentations. Integration of typography, photogra-phy, copywriting and other visual elements into advertising and design.

400/500 ART IN THE UNITED STATES BEFORE WORLD WAR II 3 credits Prerequisite: 101 or permission of instructor. Consideration of development of art in the United States from earliest evidences to approximately World War II. 401/501 SPECIAL TOPICS IN HISTORY OF ART 1-3 credits (May be repeated for credit when a different subject or level of investigation is indicated) Prerequisites: 101 or permission of instructor. Lecture course in which subject is specified each time course is offered. Focuses upon an art movement, time period, the production of a single artist or a specific art medium. 402/502 MUSEOLOGY 3 credits Lecture course dealing with museum science, including museum history, staff structures, art handling, storage, and presentation and exhibit preparation. 405/505 HISTORY OF ART SYMPOSIUM 1-3 credits (May be repeated for credit when a different subject is indicated) Prerequisite: one art history course beyond 101 or permission of instructor. Lecture, individual research and evaluation, group discussion related to a specific time period or to an artistic problem. TIME BASED MEDIA 409 3 credits

Prerequisites: 276, 384, 387. More complex projects with emphasis given to mechanical prepa-

3 credits

388 PRODUCTION FOR DESIGNERS

0 credits

3 credits

ration of finished art for various printing processes.

Prerequisite: 383. Through the development of increasingly complex projects, students explore the conceptual and aesthetic considerations of creating motion media based presentations. 418 ADVANCED PRINTMAKING 3 credits

May be repeated for a total of 12 credits) Prerequisites: 145 and 317. Lectures, demonstrations and experiments with more sophisticated printmaking techniques and applications. Concentration in one process as follows: lithography, screen printing, relief, intaglio.

- 420 SCULPTURE PORTFOLIO REVIEW 0 credits Perquisites: 7100:321, 322, 323; corequisite: 7100:422. A committee of full-time faculty reviews portfolio of studio work completed in prerequisite/corequisite courses.
- 422 ADVANCED SCULPTURE 3 credits (May be repeated for a total of nine credits) Prerequisite: 250 and 322. Development of individual points of view and sculptural statements.
- 450 ADVANCED LIFE DRAWING/LIFE PAINTING 3 credits Prerequisites: 335, 349. Painting and drawing from the live model, with an emphasis on experimentation leading to an individual style.
- 454 ADVANCED CERAMICS 3 credits (May be repeated for a total of 15 credits) Prerequisite: 250 and 354. Emphasis on refinement of technique toward personal aesthetic statement in preparation for professional or private studio production. Student may choose a general survey of subject matter or a more concentrated area of study.
- 455 ADVANCED PAINTING/DRAWING 3 credits Prerequisites: 335, 349. Exploration of aesthetic and conceptual issues involved in developing an individual stylistic approach to image making, leading to senior portfolio and BFA exhibition.
- 456 CERAMICS PORTFOLIO REVIEW 0 credits Prerequisites: 454. A committee of full-time faculty reviews portfolio of studio work completed in prerequisite courses.
- PAINTING/DRAWING SENIOR EXHIBITION PREPARATION 3 credits Prerequisites: senior status, the second 455 Advanced Painting/Drawing, Preparation of the port-folio to be exhibited in the Senior Exhibition.
- 466 ADVANCED METALSMITHING 3 credits (May be repeated for a total of 12 credits) Prerequisites: 250 and 366. Investigation in depth of aesthetic and technical problems of metalsmithing. Student works on individual projects under guidance from instructor.
- METALSMITHING PORTFOLIO REVIEW 0 credits Prerequisite: 368; corequisite: 466 A committee of full-time faculty review portfolio of studio work completed in prerequisite courses.
- 475 ADVANCED PHOTOGRAPHY 3 credits (May be repeated for a total of 12 credits) Prerequisite: 250 and 375. Photographic media, light and photographic equipment manipulated experimentally to produce creative graphic images. Student works under guidance of instructor on advanced individual projects.
- 476 PHOTOGRAPHY PORTFOLIO REVIEW 0 credits Prerequisite: 475. A committee of full-time faculty reviews portfolio of studio work completed in prerequisite/corequisite courses.
- 477 ADVANCED PHOTOGRAPHY: COLOR 3 credits Prerequisite: 475. Advanced level lecture, studio, and lab experience in color photography introducing students to technical, aesthetic, and conceptual issues of the medium.
- 478 ADVANCED COMMERCIAL PHOTOGRAPHY 3 credits Prerequisites: 318 and 320. Exploration of advanced techniques including specialty lighting, special effects, industrial/corporate and architectural photography. Emphasis on developing personal style and professional quality images.
- 479 PROFESSIONAL PHOTOGRAPHIC PRACTICES 3 credits Prerequisites: 320 and 477. Students confront the business and marketing practices unique to the commercial photography industry while producing a photographically oriented self-promotional campaign.
- 480 ADVANCED GRAPHIC DESIGN 3 credits (May be repeated for a total of nine credits) Prerequisite: 388 or permission of instructor. Student works on advanced-level individual projects under supervision of instructor.
- DESIGN X NINE 461 3 credits Prerequisite: 388. Course focusing on professional business practices. Students chosen by portfolio review in junior year. Practical experience gained through working with clients and outside sources.
- 482 CORPORATE IDENTITY AND GRAPHIC SYSTEMS 3 credits Prerequisite: 384 and 388. Advanced projects in corporate identity, graphic systems analysis, design. Problem solving for these specific areas of graphic design within mechanical limitations of art reproduction.

483 GRAPHIC DESIGN PRESENTATION

Prerequisite: 482. Students prepare a professional portfolio and resume. The course includes project development, portfolio review and exhibition.

3 credits

3 credits

3 credits

3 credits

0 credits

3 credits

484 ILLUSTRATION

Prerequisite: 283 or permission of instructor. Application of painting and drawing skills and aesthetic sensitivity to specific commercial illustration and editorial art assignments.

485 ADVANCED ILLUSTRATION 3 credits (May be repeated for a total of nine credits) Prerequisite: 484 or permission of instructor. Advanced projects designed to tune student's personal aesthetic to communicative imagery. A more individual approach to design. Drawing and painting emphasized as is experimentation with multimedia

486 INTERACTIVE MULTIMEDIA DEVELOPMENT

Prerequisite: 383. Utilizing two and three dimensional computer imagery, animation, video, and audio, students will plan, develop, and evaluate multimedia presentations, emphasizing scripting, sequencing, and interactivity.

488 PUBLICATION DESIGN

3 credits Prerequisite: 482. Senior level investigation of publication design, promotional brochures, and annual reports from concept to presentation. Focus on good concepts and problem-solving design.

489 SPECIAL TOPICS IN STUDIO ART 3 credits (May be repeated for credit when a different subject or level of investigation is indicated)

Prerequisite: Varies by course. Group Investigation of Topics not offered elsewhere in curriculum.

490/590 WORKSHOP IN ART

(May be repeated for credit when a different subject or level of investigation is indicated490 to maximum of eight credits; 590 to maximum of 12 credits) Prerequisite: advanced standing in art or permission of instructor. Group investigation of a particular phase of art not offered by other courses in curriculum

491/591 ARCHITECTURAL PRESENTATIONS I

Prerequisites: Junior level or permission. Studio practice in architectural design and presentation methods in residential and commercial interiors.

492/592 ARCHITECTURAL PRESENTATIONS II 3 credits Prerequisites: 491/591. Continuation of concepts covered in Architectural Presentations I with additional work in color rendering techniques. Emphasis on a variety of rendering mediums.

495 SENIOR EXHIBITION Prerequisite: senior standing and permission. Exit review of work from B.F.A. candidate's major

courses

496 ART INTERNSHIP/PROFESSIONAL EXPERIENCE 1-12 credits (Repeatable for credit. No more than 12 credits of internship may apply toward the elective requirement for completion of any art department major.) Prerequisites: junior level in major program and permission of Internship Director. In-depth professional training affording the intern onthe job experience in selected areas of specialization.

497/597 INDEPENDENT STUDIES 1-3 credits (May be repeated) Prerequisites for art majors; advanced standing in area chosen and cermission of instructor. Prerequisite for non-art majors: permission of instructor. Investigation in depth of aesthetic and technical problems within a studio-selected area of specialization. Student must present in writing a proposed study plan and time schedule for instructor approval.

498/598 SPECIAL PROBLEMS IN HISTORY OF ART 1-3 credits (May be repeated for credit when a different subject or level of investigation is indicated) Prerequisites: 14 credits in art history and permission of instructor. Individual research in art history centered around limited topic, such as specific time period, history of specific techniques, a single artist or movement in art history. No more than 10 credits will be counted toward major.

499 HONORS IN ART (May be repeated for a total of six credits) Prerequisites: senior standing in the Honors Program and approval of honors project by faculty preceptor. To be used for research in the Honors Program established by student and his/her adviser(s).

FAMILY AND CONSUMER SCIENCES

7400:

- 123 FUNDAMENTALS OF CONSTRUCTION 3 credits Basic theory and application of construction fundamentals, including experiences with patterns and specialty fabrics
- 125 PRINCIPLES OF APPAREL DESIGN 3 credits The study of contemporary apparel design and the relationship of design elements and princi-ples to personal characteristics and social/professional orientation.

132 EARLY CHILDHOOD NUTRITION

2 credits Emphasis on nutrition as component of Early Childhood programs. Nutrition principles discussed in relation to self and young children. Prenatal and infant nutrition studied. Food as learning expe-nence, menu planning, purchasing, sanitation, food labeling, storage and parent involvement included. For Family and Child Development Option, and an educational technology student.

133 NUTRITION FUNDAMENTALS

Study of basic nutrition concepts, contemporary issues, controversies; emphasis on macro/micro nutrient requirements for healthy individuals; analysis of a student's dietary intake.

- 139 THE FASHION AND FURNISHINGS INDUSTRIES 3 credits Overview of fashion and furnishings industries including production, distribution, promotion, and the impact of cultural influences. Discussion of career opportunities.
- 141 FOOD FOR THE FAMILY 3 credits Application of nutrition to meal planning; problems in selecting, budgeting and preparing food; meal service.

- 147 ORIENTATION TO PROFESSIONAL STUDIES IN FAMILY AND 1 credit CONSUMER SCIENCES AND FAMILY ECOLOGY Survey of history and development of family and consumer sciences with emphasis on professional and career opportunities.
- 158 INTRODUCTION TO INTERIOR DESIGN 3 credits Introduction to interior design studies with emphasis on developing basic skills and competencies required for residential design.
- 201 COURTSHIP, MARRIAGE AND FAMILY RELATIONSHIPS 3 credits Love, intimacy, relationship development, sexuality, marnage/child rearing are studied in lifespan perspective. Emphasis placed on individual relation to changing family/social/cultural demands.
- 219 CLOTHING COMMUNICATION 3 credits Study of cultural, social, psychological and economic aspects of clothing. Emphasis on expression and use of clothing in relation to self, society and culture. Lecture/discussion.
- 221 EVALUATION OF APPAREL AND HOUSEHOLD TEXTILES 3 credits Prerequisite: 225. Emphasis on product knowledge and the development of evaluation criteria useful in selecting apparel and household textiles.
- 225 TEXTILES 3 credits Basic study of natural and manufactured fibers. Emphasis on physical properties, selection and care. Attention given to design and manufacture of textiles. Lecture/Laboratory.
- 245 FOOD THEORY AND APPLICATION I 3 credits Prerequisites: 133, 3150:110 or permission of instructor. Scientific and aesthetic principles involved in the selection, storage and preparation of foods for optimum nutrition, palatability and safety. Lecture/Lab.
- 246 FOOD THEORY AND APPLICATION II 3 credits Prerequisite: 245. Study of chemical and physical structure of foods and the effects of natural changes, preparation and processing on properties and acceptability. Lecture/Laboratory
- 255 FATHERHOOD: THE PARENT ROLE 3 credits Prerequisites; 201 or 265. Historic evolution of the father role, its changing social definition, and father's potential effects on a child's development—birth through adolescence.
- 257 AUTOCAD FOR INTERIOR DESIGN 3 credits Prerequisites: 158 or permission from instructor. An introductory course in computer drafting as an alternative to conventional drafting for interior design applications.
- 258 LIGHT IN MAN-MADE ENVIRONMENTS 3 credits Prerequisites: 147,158,259; 7100:144,491. Comprehensive study of the essential principles of light in a three-dimensional context for man-made environments.
- 259 FAMILY HOUSING 3 credits A study of three basic aspects of family housing: physical/design, financial/legal, and sociological.
- 265 CHILD DEVELOPMENT 3 credits Physical, cognitive, language, social, emotional, and personality development of the child from prenatal through age eight. Observation of children in early childhood educational settings.
- 270 THEORY AND GUIDANCE OF PLAY 3 credits Prerequisite: 265. Theory and guidance of play as primary vehicle and indicator of physical, intellectual, social, emotional development and learning of children from birth to kindergarten.
- 280 EARLY CHILDHOOD CURRICULUM METHODS 4 credits Prerequisite: 265 and 270. Planning, presenting, evaluating creative activities in art, music, movement, language arts, logico-mathematics and science. Space, time, materials and adultchild interaction are emphasized
- 295 DIRECT EXPERIENCES IN THE HOSPITAL 1 credit Prerequisite: permission of adviser. Individual learning experiences for students with patients, families and the hospital personnel in various hospital settings under the direction of hospital and University staff.
- 300 LEGAL ENVIRONMENT OF FAMILIES 3 credits Introduction to legal terminology, reasoning and analysis, court systems and procedures within the context of family and consumer law
- 301 CONSUMER EDUCATION 3 credits Study of consumer needs, concerns and problems as related to individual consumer, to consumers in the market economy and to the complex society in which families function
- 302 CONSUMERS OF SERVICES 3 credits A study of the services sector of the economy. Emphasis is on a framework for studying all service providers and in developing criteria for evaluating service providers.
- 303 CHILDREN AS CONSUMERS 3 credits Study of the consumer role of children three through eighteen years. Emphasizes research data on children as consumers and consumer education for children.
- 305 ADVANCED CONSTRUCTION AND TAILORING 3 credits Prerequisite: 123. Advanced theory and principles in construction of couture garment. Construction of coat or suit jacket utilizing custom tailoring techniques. Two hours lecture, four hours laboratory.
- 310 FOOD SYSTEMS MANAGEMENT I 5 credits Prerequisites: 245; 6200:201 or 2420:211 or permission; corequisite: 315. Basic theoretical con-cepts in the management of dietetic food service systems and the practical application of principles and procedures in quantity food production and service.

311 SEMINAR IN FIBER ARTS

3 credits Exploration of a specific fiber arts technique such as needle arts, weaving, surface design, wearable art, or machine stitchery. (May be repeated for a total of nine credits).

- 315 FOOD SYSTEMS MANAGEMENT | CLINICAL 2 credits Prerequisite: 245; corequisite: 310. Development of quantity food preparation and supervisory skills in community agencies; identification of functions and resources involved in the management of food service systems.
- 316 SCIENCE OF NUTRITION 4 credits Prerequisites: 3100:209, 3150:113, or instructor permission. In-depth characterization of composition, metabolism, physiological functions and interrelationships of nutrients. Analysis and interpreta tion of current literature; assessment of nutrition counseling techniques.

320 CAREER DECISIONS IN NUTRITION

1 credit Exploration of the nutrition/dietetics profession, including academic/internship routes, career opportunities, professional concepts and attributes. Self-assessment and goal setting with beginning portfolio development.

4 credits

3 credits

3 credits

3 credits

3 credits

3 credits

2 credits

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

2 credits (credit/noncredit)

328 NUTRITION IN MEDICAL SCIENCE I

Prerequisite: 133 or 316, 426, or instructor permission. Analysis of therapeutic health-care concepts. Consideration of nutritional implications of pathological conditions; construction of diets for specific disorders.

329 NUTRITION IN MEDICAL SCIENCE I CLINICAL

rerequisites: 316 or 426. CP student only; corequisite: 328. Clinical experiences in area hospitals for application of principles of nutritional care learned in 328.

331 INTERIOR DESIGN THEORY

Prerequisites: 147,158,259; 7100:144. A comprehensive study of interior design theories and application in the built environment.

333 SPACE PLANNING AND PROGRAMMING

3 credits Prerequisites: 147,158,259,331; 7100:144,491; 2940:250. A comprehensive study of space planning principles and the programming phase of the design process.

334 SPECIFICATIONS FOR INTERIORS I

Prerequisites: 225,257,258,331,333: 7100:491,492: 2940:250. A comprehensive study of composition, characteristics, manufacture, dimensions and use, bi-products, installation, and specifications of interior construction materials.

SPECIFICATIONS FOR INTERIORS II 335

Prerequisites: 334. A comprehensive study of interior finish material with emphasis on soft goods and textiles, selection criteria, estimating, and writing specifications.

PRINCIPLES AND PRACTICES OF DESIGN

Prerequisites: 333,334. Study of the business of interior design to include initiating and maintaining a successful practice in residential or non-residential design.

INTERIOR DESIGN CONTRACT DOCUMENTS 337

Prerequisites: 225,257,258,331,333: 7100:491,492: 2940:250. A comprehensive study of contract documents and work drawings required for the design of interior spaces. Emphasis on three-dimensional representation.

340 MEAL SERVICE

Prerequisites: 245 or 141. Management of resources in relation to marketing, meal preparation and service; appropriate forms of service for various types of meals. Preparation of foods from various parts of the world.

352 STRATEGIC MERCHANDISE PLANNING 3 credits Prerequisite: 6600:340 or 2520:201. The fashion buyer's role in merchandise management and decision making with spreadsheets and merchandise mathematics incorporated into computer simulations.

360 PARENT-CHILD RELATIONS

Prerequisite: 265. The study of interactive parent-child relations from infancy through adult hood and the internal and environmental forces which impact upon family dynamics.

FAMILY LIFE MANAGEMENT

introduction to management theories, processes and principles as applied to utilization of human and material resources in promotion of individual and family well-being.

390 FAMILY RELATIONSHIPS IN MIDDLE AND LATER YEARS 3 credits Exploration of family and individual development during middle and later years of life. Emphases on issues related to intimacy, economics, social policies, psychological and biological changes.

395 COMMUNITY INVOLVEMENT IN FAMILY AND CONSUMER SCIENCES 1-3 credits Development of managenial expertise through experience. Selected participation sites in business and industry, hospitals, community agencies and with individual families with special managerial problems

400/500 NUTRITION COMMUNICATION AND EDUCATION SKILLS 4 credits

Prerequisites: 133 or 316. Theory and development of communication and education skills essential to dietetics practice; interpersonal communication; interviewing; nutrition counseling; education techniques, media, and current technology.

401/501 FAMILY-LIFE PATTERNS IN THE ECONOMICALLY DEPRIVED HOME 2 credits Study of family life orientation and life-style patterns among economically deprived with empha-sis on impact or socioeconomic and psychological deprivation on family members throughout family life span.

403/503 ADVANCED FOOD PREPARATION

Prerequisite: 141 or 245 or permission of instructor. Study of advanced techniques of food preparation. Introduction to and interpretation of classic and foreign cuisines. Emphasis on individualized experience, skill development and evaluation of procedures and results.

404/504 ADOLESCENCE IN THE FAMILY CONTEXT

3 credits Prerequisites: 201, 265 or permission of instructor. The influences of adolescent behavior on the family and the influence of the family environment on adolescent development.

406/506 FAMILY FINANCIAL MANAGEMENT

Analysis of the family as a financial unit including financial problems and their resolution, decision-making patterns and financial practices behavior. Cases, exercises, problems and computer analysis.

412 INSTITUTIONAL MANAGEMENT

Organization and management in administration of food service systems; problems in administration of food service systems; problems in control of labor, time and cost. Field experience in food production.

FOOD SYSTEMS MANAGEMENT II 413

Prerequisite: 310. Advanced concepts in management of dietetic service systems relating to achievement of nutritional care goals.

FOOD SYSTEMS MANAGEMENT II CLINICAL 3 credits (credit/noncredit) Prerequisite: 315; corequisite: 413. CP students only. Application of advanced food systems management concepts in community dietetic food service facilities; preparation for entry-level staff positions as administrative dietitians; clinical experience for 24 hours per week for 10 weeks of semester.

418/518 HISTORY OF INTERIOR DESIGN I 4 credits The study of furnishings, interiors, and architecture from antiquity through the eighteenth century, with emphasis on the social-cultural influences shaping their development.

- 419/519 HISTORY OF INTERIOR DESIGN I 4 credits The study of nineteenth- and twentieth-century furnishings, interiors, and architecture, with emphasis on the social-cultural influences shaping their development.
- 420/520 EXPERIMENTAL FOODS 3 credits Prerequisites: 246, 3150:111. Theory and methods in the experimental study of foods. Sensory evaluation and instrumental analysis of food quality. Individual research emphasized. Lecture/Laboratory
- 421 SPECIAL PROBLEMS IN FAMILY AND CONSUMER SCIENCES 1-3 credits Additional study or apprentice experience in specialized field or preparation; group and individual experimentation.

422 FAMILY RESOURCE MANAGEMENT 3 credits

Theoretical and practical experiences utilized in study of management processes and principles as applied to families. Management of human and material resources and decision-making processes emphasized.

423/523 PROFESSIONAL IMAGE ANALYSIS 3 credits

Prerequisites: Senior status. Comparison of theories associated with projecting and maximizing an appropriate professional image consistent with career goals and objectives.

- 424/524 NUTRITION IN THE LIFE CYCLE 3 credits Prerequisite: 316 or 426, or permission of instructor. Study of the physiological basis for nutri-tional requirements; interrelating factors which affect growth, development, maturation and nutritional status from conception through the elderly years.
- 425/525 ADVANCED TEXTILES 3 credits Prerequisite: 225. Evaluation of physical, aesthetic, comfort, care, and durability properties of textile products and testing procedures to determine suitability for desired and uses
- 426 HUMAN NUTRITION 5 credits Prerequisites: 133, 3100:202,203, 3150:112,113, or instructor's permission. Application of principles of nutrition, metabolism and assessment. Analysis and interpretation of current literature. Open to dietetics majors only.
- 427/527 GLOBAL ISSUES IN TEXTILES AND APPAREL 3 credits Prerequisite: 139. Examines the global structure and scope of the textile and apparel industries emphasizing an economic perspective.
- 428 NUTRITION IN MEDICAL SCIENCE II 5 credits Prerequisite: 328. Continuation of 328. Emphasizing nutritional implications of more complex metabolic and pathological conditions as well as nutrition support strategies
- 429 NUTRITION IN MEDICAL SCIENCE II CLINICAL 3 credits (credit/noncredit) Prerequisites: 329, CP students only; corequisite: 428. Clinical experience in hospitals; application of principles of nutritional care learned in 428.
- 430 COMPUTER-ASSISTED FOOD SERVICE MANAGEMENT 3 credits Use of computer programs in application of management concepts for food service systems.
- 433 SENIOR DESIGN STUDIO I 3 credits Prerequisites: 334,335,336,337,425. A comprehensive study of residential design with emphasis on conceptual, analytical, and graphic skills.
- 434 SENIOR DESIGN STUDIO III 3 credits Prerequisites: 334,335,336,337,425. Advanced space planning and problem solving experiences for application in nonresidential design.
- 435 DECORATIVE ELEMENTS IN INTERIOR DESIGN 1 credit Prerequisites: 334,335,336,337,418,419,425. The selection and application of decorative elements in the built environment.

436/536 TEXTILE CONSERVATION 3 credits Prerequisites: 123, 225, Principles and practices of textile conservation with emphasis on procedures appropriate for collectors and small historical agencies.

- 437/537 HISTORIC COSTUME 3 credits Study of costume and textiles from antiquity through the 18th century, with emphasis on social/cultural influences.
- 438/538 HISTORY OF FASHION 3 credits Study of western fashions, textiles, and designers with emphasis on social-cultural influences.
- 439 FASHION ANALYSIS 3 credits Prerequisite: 139. In-depth study of resources and processes for the analysis and forecasting of fashion trends. Emphasis on current designers and environmental forces that influence fashion.
- 440/540 FAMILY CRISIS 3 credits Study of family stress and crisis including internal and external variables and their influence on degree of disorganization, coping and recovery. Includes theory, research and application dimensions.
- 442/542 HUMAN SEXUALITY 3 credits Prerequisite: 201 or permission of instructor. Introduction to problems and values. Emphasis is on the role of values in intimate relationships, the diverse dimensions of sexual responsibility.
- 446/546 CULTURE, ETHNICITY AND THE FAMILY 3 credits Study of the role of culture and ethnicity in adaptation of the family system to environment. Program applications considered.
- 447 SENIOR SEMINAR: CRITICAL ISSUES IN PROFESSIONAL DEVELOPMENT 1 credit Prerequisites: 147 and senior standing. Consideration of family and consumer sciences as a pro-fession and its impact on the quality of life of individuals, families and their environments. Analysis of challenges facing the profession and all home economists.
- 448/548 BEFORE AND AFTER SCHOOL CHILD CARE 2 credits Study of the development, implementation and evaluation of school-age child-care programs for before and after school and vacation periods.

449/549 FLAT PATTERN DESIGN

3 credits Prerequisite: 123. Theory and experience in clothing design using flat pattern techniques.

451/551 CHILD IN THE HOSPITAL

4 credits Prerequisite: 265, comparable course or permission of instructor. Seminar dealing with special needs and problems of hospitalized/ill child and family. Literature related to effects, separation, illness and stress. Examination of strategies for coping.

455/555 PRACTICUM EXPERIENCE IN A CHILD-LIFE PROGRAM

Prerequisite: 451/551. Field experience in a child-life program and classroom activities including critical analysis of a currently functioning program and program administration.

458 SENIOR DESIGN STUDIO II

Prerequisites: 334,335,336,337,425. A comprehensive study of the nonresidential design with emphasis on conceptual, analytical and graphic skills.

459 SENIOR DESIGN STUDIO IV

Prerequisites: 334,335,336,337,425.. Advanced space planning and problem solving experiences for application in residential and nonresidential design.

460/560 ORGANIZATION AND SUPERVISION OF CHILD CARE CENTERS 3 credits Theory, principles and procedures involved in establishing and operating centers for infants, toddiers, preschool and school-age children.

470/570 THE FOOD INDUSTRY: ANALYSIS AND FIELD STUDY

3 credits Prerequisite: 245 or permission. Role of technology in extending the food supply. Chemical, physical and biological effects of processing and storage, on-site tours of processing plants.

474/574 CULTURAL DIMENSIONS OF FOOD

An examination of cultural, geographical and historical influences on development of food habits. Emphasis on evolution of diets; effects of religion, education, gender roles, media.

475/575 ANALYSIS OF FOOD

Prerequisites: 3150:113 and 7400:245. Theory and practice of food analysis by classical and modern chemical and instrumental methods. Principles illustrated by experimentation and demonstration.

476/576 DEVELOPMENTS IN FOOD SCIENCE

Prerequisite: 246. Advanced study of the chemistry and physics of food components, affecting characteristics of foods. Critical evaluation of current basic and applied research emphasized.

478 SENIOR PORTFOLIO REVIEW 1 credit Prerequisites: permission. Corequisites: 434, 459. The development of the interior design portfolio.

THE NCIDO EXAMINATION 479 1 credit

Prerequisites: permission. The course is designed to help candidates prepare for the National Council for for Interior Design Qualification Examination...

480/580 COMMUNITY NUTRITION I LECTURE

Perquisites: 316 or 426. Corequisite: 481 for CP students only. Major food and nutrition related problems in the community. Emphasis on community assessment, program implementation and evaluation, and rationales for nutrition services.

481/581 COMMUNITY NUTRITION I CLINICAL

1 credit (credit/noncredit) Prerequisite: CP students only; 428. Corequisite: 480/580. Field placement in area agencies offering nutrition services. Study of the agency's goals, organization, and philosophy of nutritional care.

482/582 COMMUNITY NUTRITION II LECTURE

Prerequisite: 480. Corequisite: 483 for CP students only. Activities engaged in by community nutritionist. Emphasis on controversies, cultural differences, educational approaches, grants manship, marketing, and working with the media.

483/583 COMMUNITY NUTRITION II CLINICAL

1 credit (credit/noncredit) Prerequisite: CP students only; 481/581. Corequisite: 482/582. A second field placement in an area agency offening nutrition services. Study of the agency's goals, organization, and philosophy of nutritional care.

484/584 ORIENTATION TO THE HOSPITAL SETTING

Prerequisite: 265, comparable course or permission of instructor. Focuses on hospital as a major social institution; introduces procedures and functions of the hospital; roles played by various hospital personnel plus cursory knowledge of medical terminology, common childhood diseases, illnesses and injuries.

485/585 SEMINAR IN FAMILY AND CONSUMER SCIENCES

Prerequisite: permission of instructor. Exploration and evaluation of current developments in selected areas.

486 STAFF RELIEF: DIETETICS

1 credit (credit/noncredit) Prerequisites: 414, CP senior only. Opportunity to function as an entry-level dietitian in area of administrative, therapeutic or community dietetics. The graduating senior CUP student spends two 40-hour weeks in a mutually agreeable agency primarily under direction of staff distitians or coordinators.

487/587 SPORTS NUTRITION

Prerequisites: 133; 3100:202,203; 3150:112,113 or 203 or permission of instructor. In-depth study of energy metabolism and utilization before, during, and after exercise. Factors affecting nutrient needs and peak performance of different athletic populations are emphasized.

488/588 PRACTICUM IN DIETETICS

Prerequisite: approval of advisor/instructor. Practical experience in application of the principles of nutrition.

489/589 PROFESSIONAL PREPARATION FOR DIETETICS 1 credit Historical aspects of dietetics and where the profession is going. Specialty areas of dietetic prac-

tice are explored. Students prepare the application for dietetic internship. 490/590 WORKSHOP IN FAMILY AND CONSUMER SCIENCES 1-3 credits Prerequisite: at least junior standing. Investigation on current issue or topic in selected areas of family and consumer sciences and family ecology. May be on off-campus study tour or an on-

campus full-time group meeting. 8 credits

495 INTERNSHIP: GUIDED EXPERIENCES IN CHILD-LIFE PROGRAM

Prerequisite: 455. Field experience in a child-life program at an approved pediatric facility under the supervision of Child Life Specialists.

496/596 PARENTING EDUCATION

3 credits Prerequisite: 265, comparable course or permission of instructor. Practical application that reviews and analyzes various parenting techniques with major emphasis on the evaluation of parent education programs.

- 497 INTERNSHIP: FAMILY AND CONSUMER SCIENCES 2-6 credits Prerequisite: permission of instructor. In-depth field experience in business, industry or community agencies related to student's area of specialization.
- 499 SENICIR HONORS PROJECT IN FAMILY AND CONSUMER SCIENCES 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and approval of honors preceptor. Individual study supervised by adviser. Student and preceptor velop goals, objectives and methodology.

MUSIC

3 credits

2 credits

1-3 credits

3 credits

1-3 credits

7500:

- 100 FUNDAMENTALS OF MUSIC 2 credits Introduction of basic notation and development of functional music reading and keyboard skills. Conducted in electronic keyboard laboratory with computer-assisted instruction available. For non-music majors only, with little or no previous musical training.
- 101 INTRODUCTION TO MUSIC THEORY 2 credits Designed for prospective music major to correct deficiencies in theory background as determined through department placement testing. Includes classroom instruction and computerassisted instruction in basic notation, scales, meter, key signatures, ear training and basic familiarity with the keyboard. Credit not applicable toward music degree.
- 103 TRENDS IN JAZZ 2 credits An overview of the first 100 years of jazz music with emphasis on major figures and styles central to the development of jazz. This course is specifically designed for the non-music major.
- 104 CLASS PIANO I 2 credits Prerequisite: 101 or permission of instructor. Designed for student with no previous keyboard experience to learn rudimentary keyboard skills such as playing scales, chords, arpeggios and melodic patterns as well as simple music.
- 105 CLASS PIANO II 2 credits Prerequisite: 104 or permission of instructor. Continuation of work begun in 104.
- 107 CLASS VOICE I 2 credits Prerequisite: 101 or permission of instructor. Minimum memorization and solo singing requirement: seven songs. Voice literature emphasis; folk songs, ballads, spirituals, sacred songs and easy art songs in English.
- 108 CLASS VOICE II 2 credits Prerequisite: 107. Minimum memorization and solo singing requirement: eight songs. Vocal literature emphasis: old Italian and English songs, art songs in English or foreign language if student is conversant with the language.
- 110 CLASS GUITAR 1 credit Prerequisite: permission of instructor. Introduction to the guitar, its repertoire and techniques. Basic classical techniques and music reading, strums, finger-picking, accompaniment patterns, blues styles will be covered.
- 141 EAR TRAINING/SIGHT READING J 1 credit Prerequisite: Placement in Theory I. Corequisite: 151. Major and minor keys; intervals, triads and inversions; diatonic progressions; three clefs; simple and compound meters; subdivision through sixteenth notes.
- 142 EAR TRAINING/SIGHT READING II

Prerequisites:: 141 and 151. Corequisite: 152. Seventh chords; melodic chromaticism; secondary function; four-part dictation; asymmetric meters; borrowed subdivision.

- 151,2 THEORY I. H 3 credits each Sequential, Prerequisite: 101 or permission of instructor. Study and creative use of elements of music; investigation of music of major composers of classic and romantic eras; introduction to earlier musical practices and contemporary music.
- 154.5 MUSIC LITERATURE I. II 2 credits each Sequential. Familiarization with large body of musical material from all branches of music writing; vocal, instrumental, symphonic and choral music literature. Special attention given to style, form and structural procedures of principal composers.
- 157 STUDENT RECITAL 0 credits Required of all music majors until minimum requirement is met. Forum for student and faculty members providing lectures, recitals and opportunity for practice of various skills necessary for successful music performance.
- 201 EXPLORING MUSIC: BACH TO ROCK 3 credits Prerequisite: 3400:210. This course provides non-music majors with the skills to evaluate a wide range of music.
- 205 MARCHING BAND ORGANIZATION AND TECHNIQUE 1-2 credits Prerequisite: Two semesters 7510:126 or one semester 7510:126 and equivalent experience as determined by instructor; must be taken concurrent with second year of Marching Band (7510:126). A discussion of the marching band. Student learns to write complete half-time show, administer marching band program. Required for instrumental music education majors.
- 210 JAZZ IMPROVISATION I 2 credits Prerequisites: 262 and permission of instructor. Study and application of principles of jazz improvisation as they relate the chord-scale structures, motif development and style.
- 211 JAZZ IMPROVISATION II 2 credits rerequisite: 210. Advanced study in principles of jazz composition.
- 212 THE MUSIC INDUSTRY: A SURVEY OF PRACTICES AND OPPORTUNITIES 2 credits A study of current practices affecting the professional musician and a survey of career opportunities relating to the music industry.
- 241 EAR TRAINING/SIGHT READING III 1 credit Prerequsites: 142 and 152. Corequisite:: 251. Modulation; chromatic harmony; mixed meters
- 242 EAR TRAINING/SIGHT READING IV 1 credit Preregusites: 241 and 251. Corequisite:: 252. Twentieth-century materials: modes: whole-tone and octatonic scales; secundal and quartal/quintal harmony; classical, jazz, and non-western examples; polyrhythm; total and atonal contexts.

1 credit

251.2 THEORY III. IV

3 credits each Sequential. Prerequisite: 152. Renaissance vocal counterpoint; Baroque instrumental counterpoint; form and analysis of music of all eras.

254.5 STRING INSTRUMENT TECHNIQUES I. II

2 credits each (25 clinical hours each) Prerequisites: 155, 205, 242. 252, 262, 276, 277, 297. Sequential. Fundamentals of technique, tone production, methods and materials pertaining to violin, viola, cello and string bass; heterogeneous string ensemble activities.

259 FRETBOARD HARMONY

Prerequisite: 261 or permission of instructor. Essentials of basic theory and harmony as applied to the guitar fretboard: accompaniment, improvisation, transposition, modulation, figures bass, sight reading.

2 credits

2 credits

2 credits

261,2 KEYBOARD HARMONY I, II

2 credits each Sequential. Prerequisites: 105 or equivalency and 152. Essentials of basic theory and harmony practically applied at keyboard; accompaniment, improvisation, transposition, modulation and sight-reading.

263 SERVICE PLAYING FOR ORGANISTS

Prerequisites: 152 and 261. Practical course in basic keyboard skills needed by organist to play for religious services in various denominations. Hymn playing, anthem accompaniment and simple improvisation.

265.6 DICTION FOR SINGERS II

2 credits each Sequential. Prerequisite: permission. Study of diction of the four most used languages (Italian, German, French and English) in vocal performance and international phonetic alphabet. Designed for student who expects to function as vocal performers and/or choral and studio voice teachers.

- 271 PIANO PEDAGOGY AND LITERATURE I 2 credits Prerequisite: permission of instructor. Examination of musical content and pedagogical orienta tion of beginning piano material to include appropriate teaching works, methods and ensemble pieces from a variety of historical periods.
- 272 PIANO PEDAGOGY AND LITERATURE II 2 credits Prerequisite: 7520:125 or permission of the instructor. A survey of piano literature at all levels of difficulty, with practical emphasis on its use for teaching.
- 276 TRUMPET AND FRENCH HORN METHODS 1 credit Prerequisite: 102. A comprehensive approach to the performance and pedagogy of the trumpet and French hom for the instrumental music education major in preparation for teaching music.
- 277 CLARINET/SAXOPHONE METHODS 1 credit Prerequisite: 276. A comprehensive approach to the performance and pedagogy of the clarinet and saxophone for the instrumental music education major in preparation for teaching music.
- 297 INTRODUCTION TO MUSIC EDUCATION 2 credits Prerequisites: 141,142,152, 154. Overview of the music teaching profession and its processes. Screening of degree candidates is built into the course along with clinical field experience.
- 298 TECHNOLOGIES OF MUSIC EDUCATION 2 credits Introductory hands-on experiences with a wide range of technology applications and strategies
- to integrate technology into the music curriculum. 307 TECHNIQUES OF JAZZ ENSEMBLE PERFORMANCE AND DIRECTION 1-2 credits Prerequisite: 155, 205, 242, 252, 262, 276, 277, 297; permission of instructor. Basic experiences
- relating to conducting, rehearsal techniques, improvisation, performance, repertoire and other matters related to organization and direction of stage bands. Required for instrumental majors. 308 THE HISTORY AND LITERATURE OF JAZZ 3 credits

Prerequisite: permission of instructor. Study of origins of jazz music, its development and influence on today's culture. Investigates evolution of musical instruments as they pertain to jazz music, the artists who perform on them, and their music through live and recorded listening

309 JAZZ KEYBOARD TECHNIQUES 2 credits Prerequisite: 262. Study of and familiarization with basic jazz keyboard techniques as they relate to contemporary jazz harmony and theory.

JAZZ IMPROVISATION III

Prerequisite: 211. Advanced study in the principles of jazz improvisation.

311 JAZZ IMPROVISATION IV

Prerequisite: 310. Advanced study in the principles of jazz improvisation.

320 MUSICAL THEATRE HISTORY AND LITERATURE I 2 credits From the beginning of Musical Theatre through the 1800s, musicals will be examined for emerging trends and styles in music, dance, and theatre.

325 RESEARCH IN MUSIC

- 2 credits Prereguisites: 155,161, 252, 262. Techniques of basic research methods; examination of selected music materials, field trips to specialized collections.
- 339 MUSIC IN EARLY CHILDHOOD 2 credits (25 clinical hours, 10 field hours) rerequisites: 155, 242, 252, 262, 297. Students will develop strategies for teaching music to children, birth through eight years of age, through the study of child development and age-appropriate musical repertoire.
- 340 TEACHING GENERAL MUSIC 2 credits (30 clinical hours, 20 field hours) Prerequisites: 141, 142, 155, 205, 241, 242, 252, 262, 277, 297. Students will develop strategies for teaching music to children, from the middle years on into adulthood, through age appropriate musical material and activities.

341 JH/MS CHORAL METHODS

2 credits Prerequisites: 141, 142, 155, 241, 242, 252, 262, 297, 340. Methods and materials for teaching choral music at the junior high and middle school level. Develops competencies in literature selection, rehearsal techniques and assessment of the adolescent voice.

344 SECONDARY CHORAL METHODS

2 credits Prerequisites: 351, 361. Methods, techniques, and materials for teaching secondary choral music. Develops competencies in literature, selection, rehearsal techniques, and programming methodology.

345 LOW BRASS METHODS 1 credits Prerequisites: 141, 142, 151, 152, 154, 155, 205, 241, 242, 251, 252, 261, 262, 277. A comprehensive approach to the pedagogy and performance of the low brass for the instrumental music education major in preparation for teaching music.

346 FLUTE AND DOUBLE REED METHODS 1 credits Prerequisites: 340, 345, 351. A comprehensive approach to the pedagogy and performance of the flute and double reeds for the instrumental music education major in preparation for teach-

ina music. 351,2 MUSIC HISTORY I, II 3 credits each Sequential. Prerequisites: 152, 155. Development of music from ancient to modern times; scores, recordings and live performances as illustrative material.

- 353 ELECTRONIC MUSIC 3 credits Theory of electronically generated sound and practice of electronic music composition. Emphasis is on understanding digital and analog synthesizers in a MIDI recording studio.
- 361 CONDUCTING 2 credits Prerequisites: All Majors - 141, 142, 151, 152, 154, 155, 241, 242, 251, 252, 261, 262; Vocal -102 or permission; Instrumental — 254, 346, 352, 454 or permission. Study and practice of con-ducting techniques; patterns, fermatas, tempo and dynamic change, attacks and releases, score reading, aural skills. One hour lab required.
- 363 INTERMEDIATE CONDUCTING: CHORAL 2 credits Prerequisite: 361 or instructor permission. Introduction to choral conducting with emphasis on manual techniques, vocal skills, aural skills, and gaining conducting experience.
- 365 SONG LITERATURE 2 credits Prerequisite: 252 or permission. Exposes student systematically to vocal literature, aiding in their ability to distinguish between various periods and styles of music through recordings and class participation.
- 368 GUITAR STYLES 2 credits Prerequisite: 200 performance level or permission of instructor. Techniques involved in performing musical styles other than those in classical guitar. Included are plectrum styles such as bluegrass, country and rock, as well as flamenco, folk, popular and jazz.
- 371 ANALYTICAL TECHNIQUES 2 credits Prerequisite: 252. Techniques for analysis of musical score from all eras of Western music history, with major emphasis on works of Baroque, Classical and Romantic periods.
- 372 TECHNIQUES FOR THE ANALYSIS OF 20TH CENTURY MUSIC 2 credits Prerequisite: 252. Techniques for the analysis of musical scores from the 20th Century. Required of a theory-composition major.
- 407 JAZZ ARRANGING AND SCORING 2 credits Prerequisite: 454 and 309. Study of jazz instrumentation from small groups to large ensembles.
- 432/532 TEACHING AND LITERATURE: PERCUSSION INSTRUMENTS 2 credits To train undergraduate and graduate percussion students in techniques of percussion education. Emphasis on research, literature, performance, and techniques from elementary through secondary levels
- 442 INSTRUMENTAL METHODS 2 credits Prerequisites: 346, 352, 454, 254. Procedures for teaching instrumental music at all levels. Special emphasis will be placed on classroom management, recruitment, assessment, literature selection, scheduling and rehearsal organization. Clinical and field experience.
- 443 INSTRUMENTAL PRACTICUM 2 credits Prerequisites: 442. Procedures for teaching instrumental music at all levels. Special emphasis will be placed on classroom management, recruitment, assessment, literature selection, scheduling and rehearsal organization. Clinical and field experience.
- 451/551 INTRODUCTION TO MUSICOLOGY 2 credits Prerequisite: 352. Comparative musicology; acoustics; psychology and physiology of music; aesthetics; theory of music theory; historical musicology.

452 COMPOSITION 2 credits Prerequisite: 252 or permission of instructor. Study and creative use of major styles and idioms

- of musical composition; emphasis on 20th-Century techniques. 453/553 MUSIC SOFTWARE SURVEY AND USE 2 credits
- Prerequisite: 152 or permission of instructor. A survey and evaluation of available software in the various forms of musical instruction. Students will design a course suitable for submission to a programmer.

454 ORCHESTRATION 2 credits Prerequisite: 252. Theory of instrumentation ranging from small ensembles to full band and

- 455/555 ADVANCED CONDUCTING: INSTRUMENTAL 2 credits (30 clinical hours) Prerequisite: 361, 442 or permission. Baton techniques and problems relating to practice, reading and preparation of scores; organization of ensembles; programming; conducting large instrumental ensembles. One hour lab required
- 456/556 ADVANCED CONDUCTING: CHORAL 2 credits Prerequisite: 363. Conducting techniques to the choral ensemble, including leadership, error detection, tonal development, stylistic accuracy and analysis. One hour lab required.
- SENIOR RECITAL 0 credits Permission of applied instructor is required for this course, which is taken only during the semester of the Senior Recital.
- 458 PERCUSSION METHODS 1 credit Prerequisites: 346, 352 and acceptance into Music Education Program, A comprehensive approach to the pedagogy and performance of the percussion instruments for the instrumental education major in preparation for teaching music.
- 462/562 REPERTOIRE AND PEDAGOGY: ORGAN 3 credits Prerequisite: permission of instructor. Survey of organ literature of all eras and styles, and of methods of teaching organ, applying principles to literature.

<i>dits</i> heir and	111	CHAMBER ORCHESTRA 1 credit Membership by audition. Organization designed to study for performance the substantial reper- toire for small orchestra. Open to student of advanced ability.
elat- dits	114	KEYBOARD ENSEMBLE 1 credit Involves three hours a week of accompanying. Keyboard major required to enroll for at least three years. Music education major may substitute another musical organization for one year.
ects pro-	115	JAZZ ENSEMBLE 1 credit Membership by audition. Provides experience in jazz ensemble performance. Student is assumed to have knowledge of rudiments of music and some experience in jazz performance.
<i>dits</i> eda- ed.	116	GUITAR ENSEMBLE 1 credit Membership by audition. Provides experience in conducted ensemble performance for gui- tarists. Major conducted ensemble.
dits stu- and	118	SMALL ENSEMBLE MIXED 1 credit Chamber Ensemble, Baroque Ensemble and Contemporary Music Ensemble. Each is a group of diverse instruments which rehearses and performs a selected body of music.
<i>dits</i> the ces.	120	CONCERT CHOIR 1 credit Membership by audition. Highly select mixed choir. Performs classical literature from all periods. Campus, regional, and tour performances. "Major conducted ensemble" for vocal majors.
dits	121	UNIVERSITY SINGERS 1 credit Membership by audition. Mixed ensemble devoted to performance of a wide variety of choral lit- erature from classical to popular. "Major conducted ensemble" for vocal majors.
asis	123	MADRIGAL SINGERS 1 credit Membership by audition. Ensemble devoted to performance of vocal chamber music of the Renaissance. Presents madrigal feasts and concerts on and off campus. Fall semester.
sical and	124	OPERA CHORUS 1 credit Open to students and members of University community by audition. Rehearsal and production of opera and musical theatre literature with staging, costumes, and scenery.
<i>dits</i> um.	125	CONCERT BAND 1 credit Membership by audition. This ensemble performs the finest literature available for concert bands today. Major conducted ensemble.
dits usic. elec-	126	MARCHING BAND 1 credit Enrollment is open to all members of the University student body. This organization is noted for its high energy performances at University football games.
edit	127	BLUE AND GOLD BRASS 1 credit Membership by audition. The official band for Akron home men's basketball games.
ilion Ince	128	UNIVERSITY BAND 1 credit This ensemble is active during Spring Semester only, and is open to all members of the University community.
n of cted	129	BLUE AND GOLD BRASS II 1 credit Membership by audition. The official band for Akron home ladies basketball games.
	421	1 andit

463/563 REPERTOIRE AND PEDAGOGY: STRING INSTRUMENTS

Prerequisite: permission of instructor. Study in depth of the four bowed string instruments, t teaching and close relationship. Despite obvious difference in physical application of cello bass from violin and viola, methods of bowing, sound production and coloring are closely re ed. Application of the instruments to solo, chamber and orchestral playing.

3 cre

3 cre

2 cre

2 cre

2 cre

1-3 cre

2 cre

1 cr

1-3 credits

1 credit

1 credit

1 credit

1 credit

1 credit

1 credit

465/565 VOCAL PEDAGOGY

Prerequisite: 300 or above students with permission of instructor. In depth study of subj dealing with teaching voice: physiology of the vocal instrument, principles governing vocal duction and application of vocal pedagogy.

467/567 GUITAR PEDAGOGY

Prerequisite: permission of instructor. A systematic analysis of prevailing schools of guitar per gogy. Sound production physiology, method books and special problems in teaching address

468/568 GUITAR ARRANGING

Prerequisite: permission of instructor. After comparative analysis of selected examples, dents make original solo guitar arrangements of works written for other solo instruments ensembles

469/569 HISTORY AND LITERATURE OF THE GUITAR AND LUTE

Prerequisite: permission of instructor. Study of plucked, fretted, string instruments from 14th Century to the present: construction, notation, literature and performance practic Modern editions and recordings evaluated.

471 COUNTERPOINT

2 cre Prerequisite: permission of instructor. Designed to give student of theory-composition ne sary knowledge and skills for understanding contrapuntal practices and procedures; empha on 20th-Century techniques.

472 ADVANCED ORCHESTRATION

2 cre Prerequisite: 454. Study of techniques of orchestral style as found in major works from class orchestra of Haydn and Mozart through modern orchestra of Stravinsky, Bartok, Berg Schoenberg.

490/590 WORKSHOP IN MUSIC

Prerequisite: permission of instructor. Investigation of topics not offered in regular curricul Graduate student must fulfill additional requirements.

491 SPECIAL TOPICS IN MUSIC

(May be repeated for a total of four credits) Group project related to a specific phase of me Experimental course topics designed and implemented according to student interest. For e tive credit only.

492 STUDENT TEACHING COLLOQUIUM

Prerequisite: restricted to students enrolled in Student Teaching in Music. For music educa majors; certification, contracts, benefits, job market prospects and student teaching experie sharing.

INDEPENDENT STUDY IN MUSIC 497

(May be repeated for a total of four credits) Prerequisites: senior standing and permission department head. Music major only. Independent study under supervision of specially select faculty members in subject area bearing on student's own goals.

SENIOR HONORS PROJECT: MUSIC

(May be repeated for a total of six credits) Individually designed project demonstrating scholarship, analysis, advanced musicianship, research and/or creativity according to student interest. Restricted to University honors music student.

MUSICAL ORGANIZATIONS

7510:

102 AKRON SYMPHONY CHORUS

1 credit Open to University and community members by audition. Prospective members should contact School of Music two weeks before semester begins. Performs with Akron Symphony Orchestra

103 UNIVERSITY SYMPHONY ORCHESTRA

Membership by audition. Organization devoted to study of orchestral literature. FulHength concerts as well as special University appearances. Major conducted ensemble.

104 SYMPHONIC BAND

Membership by audition. The University Symphonic Band is the most select band at the University and performs the most demanding and challenging music available. Major conducted ensemble

105 VOCAL CHAMBER ENSEMBLE

Membership open to those enrolled in applied voice study. Coaching and rehearsal of solo and ensemble literature for voices from operatic, oratorio and lieder repertories.

106 BRASS ENSEMBLE

1 credit Membership by audition. Study and performance of literature for brass ensemble from all periods of music history. Frequent public concerts. For advanced brass players.

107 STRING ENSEMBLE

1 credit Membership by audition. In-depth study of performance of chamber music literature with special emphasis on string quartet and piano trio.

108 OPERA WORKSHOP

mbership by audition. Musical and dramatic group study of excerpts from operatic repertoire. Includes annual production of standard opera and/or contemporary chamber work with staging, costumes and scenery.

109 PERCUSSION ENSEMBLE

Membership by audition. Study and performance of literature for various percussion groups; develops skill in ensemble performance.

110 WIND CHOIR

Membership by audition. Study, reading, and performance of major orchestral and serenade repertoire for wind instruments.

Prerequisite: Open to all upper class instrumentalists and vocalists. Guitarists must have taken Guitar Ensemble, 7510:116. Study, coaching, and performance of major works for guitar with other instruments or voice. Major conducted ensemble for guitar majors.

APPLIED MUSIC

7520:

021

022

023

024

025

026

027

028

Prerequisite: Placement audition in the School of Music.Individual instruction in vocal or instrumental performance. Two credits represent one half-hour lesson per week; four credits represent an hour lesson. Enrollment may be repeated each semester for credit. A fee is charged in addition to regular tuition.

2-4 credits each

021-69 APPLIED MUSIC FOR NON-MAJORS

Prerequisite: Permission of applied instructor. For students whose performance skills are not sufficient for placement at the 100 level or for elective credit in non-music programs. No credit toward any major in music. A fee is charged in addition to regular tuition.

063

064

065

066

067

068

069

OBOE/ENGLISH HORN

SAXOPHONE

HARPSICHORD

COMPOSITION

JAZZ GUITAR

JAZZ PIANO

JAZZ TRUMPET

JAZZ TROMBONE

JAZZ SAXOPHONE

JAZZ COMPOSITION

JAZZ VOCAL STYLES

JAZZ PERCUSSION

JAZZ ELECTRIC BASS

CLARINET/BASS CLARINET

BASSOON/CONTRABASSOON

PERCUSSION	037
CLASSICAL GUITAR	038
HARP	039
VOICE	040
PIANO	041
ORGAN	042
VIOLIN	. 061
VIOLA	062

- CELLO 029
- 030 STRING BASS
- 031 TRUMPET/CORNET
- FRENCH HORN 032
- 033 TROMBONE
- 034 BARITONE
- 035 TUBA
- 036 FLUTE/PICCOLO

121-469/521-569 APPLIED MUSIC FOR MUSIC MAJORS

The following courses are intended for a student majoring in one of the programs in the School of Music. Course levels correspond approximately to class standing (100 for freshman, 200 for sophomore, etc.) A student may progress up one level by successfully completing an applied music jury, usually offered in the spring semester. NOTE: No more than eight credits at the 100, 200 or 300 level may apply in music degree programs; no such limit exists for the 400 level.

2 or 4 credits each

121-221-321-421/521 PERCUSSION

122-222-322-422/522 CLASSICAL GUITAR

123-223-323-423/523 HARP

124-224-324-424/524 VOICE

125-225-325-425/525 PIANO

126-226-326-426/526 ORGAN

127-227-327-427/527 VIOLIN

128-228-328-428/528 VIOLA

129-229-329-429/529 CELLO

130-230-330-430/530 STRING BASS

131-231-331-431/531 TRUMPET OR CORNET

132-232-332-432/532 FRENCH HORN

133-233-333-433/533 TROMBONE

134-234-334-434/534 BARITONE

135-235-335-435/535 TUBA

136-238-336-436/536 FLUTE OR PICCOLO

137-237-337-437/537 OBOE OR ENGLISH HORN

138-238-338-438/538 CLARINET OR BASS CLARINET

139-239-339-439/539 BASSOON OR CONTRABASSOON

140-240-340-440/540 SAXOPHONE

140-240-340-440/340 3AAOFIIOIW

141-241-341-441/541 HARPSICHORD

142-242-342-442/542 PRIVATE LESSONS IN MUSIC COMPOSITION 2-4 credits each (May be repeated) Prerequisites: 7500:252 and permission of instructor; 7500:452 recommended.Private instruction in composition. Primarily for student whose major is theory-composition.

161-261-361-461 JAZZ PERCUSSION

162-262-362-462 JAZZ GUITAR

163-263-363-463 JAZZ ELECTRIC BASS

164-264-364-464 JAZZ PIANO

165-265-365-465 JAZZ TRUMPET

166-266-366-466 JAZZ TROMBONE

167-267-367-467 JAZZ SAXOPHONE

168-268-368-468 JAZZ COMPOSITION

169-269-369-469/569 JAZZ VOCAL STYLES

COMMUNICATION

7600:

102 SURVEY OF MASS COMMUNICATION 3 credits Considers entire field of contemporary American mass communication. Presents and explains functions of agencies through which news, views and entertainment reach the general public. 105 INTRODUCTION TO PUBLIC SPEAKING 3 credits Introduction to principles and practice of speaking by reading examples of speeches, studying techniques and methods employed and applying them in a variety of speaking situations. **106 EFFECTIVE ORAL COMMUNICATION** 3 credits Principles of communication in speaker-audience, group and informal settings, and application of the principles in speeches, group discussions and other oral and written assignments. 115 SURVEY OF COMMUNICATION THEORY 3 credits ents models of major forms of speech communication and discusses elements of models, their interaction and their function in the human communication system. 200 CAREERS IN COMMUNICATION 1 credit (credit/noncredit) A survey of career opportunities in the communication field. Outside speakers; field trips. 1 credit LISTENING 225 Techniques and approaches involved in understanding the listening process and practice of listening improvement techniques. 226 INTERVIEWING 3 credits Study and practical application of selected interviewing concepts associated with job interviewing, journalistic interviewing, and life review interviewing. NONVERBAL COMMUNICATION 3 credits 221 Focused study of the principal aspects of nonverbal communication in public, group and interpersonal settings. 230 WZIP-FM* 1 credit 231 FORENSICS* 1 credit 1 credit 232 BUCHTELITE 1 credit 233 TEL-BUCH*

Total repeats not to exceed eight credits.

(Note: Students being paid salaries from Student Activity Funds are not eligible for credit.)

235	INTERPERSONAL COMMUNICATION Theory and practice in interpersonal communication concepts and principles. Special topic munication apprehension, assertive communication, communication dyads and triads, an tional communication.	<i>3 credits</i> s in com- d transac-
245	ARGUMENTATION Study of process of developing, presenting and defending inferences and arguments in munication setting. Includes study and practice of evidence, reasoning, case construction tion and rebuttal.	<i>3 credits</i> oral com- n, refuta-
252	PERSUASION Emphasis on understanding persuasion theory and practice. Includes information analysi vational appeals and introduction to propaganda analysis.	<i>3 credits</i> s of moti-
270	VOICE TRAINING FOR MEDIA Effective techniques and development of skills for voicework in radio and television.	3 credits
280	MEDIA PRODUCTION TECHNIQUES Introduction to production techniques used in the mass communication covers sound, im ing, fundamentals of conveying messages on slide, film and video.	<i>3 credits</i> age, light-
282	RADIO PRODUCTION Study of radio production techniques and the functional operation of AM and FM radio Includes practical production experience in studio.	3 credits stations.
283	STUDIO PRODUCTION Prerequisite: 280. Function, structure and influence of television as communication med practical experience in studio.	<i>3 credits</i> tium with
300	NEWSWRITING Prerequisite: ability to type, grammar competency. Writing and editing news stories; with sis on deadline writing in a lab situation.	<i>3 credits</i> h empha-
301	ADVANCED NEWSWRITING Prerequisite: 300. Advanced course in writing and editing news, features and analysis media. Behavioral approach to communication of information and ideas.	<i>3 credits</i> s for print
302	BROADCAST INSWRITTING Prerequisites: 300, 280. The course is designed to teach students how to write, prepare, er broadcast news copy for radio and television.	<i>3 credits</i> and deliv-
303	PUBLIC RELATIONS WRITING Prerequisites: 300, ability to type. Introduction of writing skills required by public relations ers emphasizing different approaches for specific publics and specific media.	3 credits practition-
304	EDITING Prerequisite: 300. Copyreading, headline writing, proofreading, makeup, type and typogra ing machines and processes, newspaper methods and systems.	<i>3 credits</i> phy, print-
308	FEATURE WRITING Prerequisite: 300. Short newspaper and magazine articles, preparation of articles for p human interest situations, extensive writing with class discussion.	<i>3 credits</i> ublication,
307	COMMERCIAL ELECTRONIC PUBLISHING Prerequisite: 300. Explore basic principles of magazine publishing in its broad definition, la and typography, paint production of magazines.	<i>3 credit</i> s yout, type
309	PUBLIC RELATIONS PUBLICATIONS Prerequisites: 300 and 303. Preparation of publications used as communication tools in p tions, advertising and organizations. Emphasis upon design, layout and technology.	<i>3 credits</i> public rela-
325	INTERCULTURAL COMMUNICATION Study of effect on oral communication process of existence of cultural barriers. Include verbal and nonverbal communication in transracial, informal international and diplomation nicative settings.	<i>3 credits</i> s study of c commu-
344	GROUP DECISION MAKING Study of communication and decision making in small groups. Practice in techniques of g sion-making. Introduction to theory of group communication.	<i>3 credits</i> roup deci-
345	BUSINESS AND PROFESSIONAL SPEAKING Prerequisite: 7600:105 or 106. Practical improvement in speaking skills used in business a	<i>3 credits</i> settings.
346	ADVANCED PUBLIC SPEAKING Prerequisite: 7600:105 or 106. Theory and practice of public speaking: audience analysis; methods for organizing persuasive speeches; techniques of research, style, and delive sional speech writing; extensive speaking practice.	<i>3 credits</i> advanced ry; profes-
355	FREEDOM OF SPEECH Discussion and analysis of the Constitution's free speech guarantee; contemporary issu dom of communication; role of the media in free speech issues.	<i>3 credits</i> les in free-
368	BASIC AUDIO AND VIDEO EDITING Prerequisite: 280. Basic audio and video editing theory and practice. Introduction to A computerized editing systems.	<i>3 credits</i> /8 roll and
375	COMMUNICATION TECHNOLOGY AND CHANGE Prerequisite: 102 or permission. Study of technological innovation and change in electro Evaluation of communication policy issues and the impact of technological change in media. Evaluation of communication policy issues and the impact of technological chan sumers and industries.	<i>3 credits</i> nic media. electronic ge on con-
384	COMMUNICATION RESEARCH Prerequisites: 102, 115. Fundamental concepts and methods of survey research, and t tion and interpretation of survey data in communication and in media operations.	<i>3 credits</i> he applica-
		3 credits

385 AMERICAN FILM HISTORY: THE BEGINNING TO 1945 3 credits Acquaints undergraduate student with historical developments of film and film concepts; ends with films of 1945.

386 AMERICAN FILM HISTORY: 1946 TO THE PRESENT 3 credits Continuation of student's survey of film history and film concepts begun in 385.

- 3 credits 387 RADIO AND TV WRITING Prerequisite: 300. Practical application of broadcast writing principles and techniques used in commercials, PSAs, promotions, as well as scripts for comedy, drama, documentaries, business and education.
- 388 HISTORY OF BROADCASTING 3 credits Prerequisite: 102. Growth of broadcasting in America; historical evolution of radio, television, and cable industries; contributions of inventors, entrepreneurs and talent.
- 3 credits 396 RADIO/TV PROGRAMMING Prerequisite: 102. Examines programming processes in radio and television; programming philosophies, schedules, feature and syndication acquisition, local productions, issues of staffing and funding.
- 400/500 HISTORY OF JOURNALISM IN AMERICA 3 credits A review and analysis of the historical evolution of journalism in America, focusing primarily on newspapers, magazines, radio, television.
- 403 PUBLIC RELATIONS STRATEGIES 3 credits Prerequisites: 300, 303, and 309. Selected communication theories used to analyze and implement effective public relations programs with emphasis placed upon research, planning, promotional messages and evaluation of program.
- 404 PUBLIC RELATIONS CASES 3 credits Prerequisites: 303, 309, and 403. Continuation of 403. Application of principles of public relations profession in an actual organizational setting.
- 405 MEDIA COPYWRITING 3 credits Prerequisite: 309. Selected communication theories and research techniques used to plan, write and analyze commercial messages. Emphasis will be placed on selection of audience, medium, appeal, writing style and evaluation of efforts.

408/508 WOMEN, MINORITIES AND NEWS

Study of images of women in U.S. news, along with the power women and minorities have as decision-makers in the news industry.

410 JOURNALISM MANAGEMENT

This course is designed to educate students in the management of journalistic operations, including the magazine and newspaper industries

416/516 NEW MEDIA WRITING

Prerequisite: 300. This class will look at how today's professionals practice on-line publishing. Students will work on writing and reporting skills needed in this new media.

417/517 NEW MEDIA PRODUCTION

Prerequisites: 375, 416. Covers practical application of software to create on-line multimedia documents and explores design ideas for New Media content.

420 MAGAZINE WRITING

Prerequisites: 300, 308. An advanced writing course designed to develop the specialized research ing, reporting, and writing skills needed in consumer and specialized business magazines today.

425/525 COMMERCIAL ELECTRONIC PUBLISHING

Prerequisite: 300. Explore basic principles of magazine publishing in its broad definition, layout, type and typography, paint production of magazines.

435/535 COMMUNICATION IN ORGANIZATIONS

Prerequisite: 345 or permission. Overview of theories and approaches for understanding communication flow and practices in organizations, including interdepartmental, networks, superior-subordinate, formal and informal communication.

436/536 ANALYZING ORGANIZATIONAL COMMUNICATION

Prerequisites: 344, 384 and 435. or permission. Methodology for in-depth analysis and application of communication in organizations; team building; conflict management, communication flow. Individual and group projects; simulations.

437 TRAINING METHODS IN COMMUNICATION

Prerequisite: 345 or permission. Principles and concepts in the design and delivery of communication training programs; integration of theory and methodology; presentation skills; matching methods and

438/538 HEALTH COMMUNICATIONS

The course presents an overview of health communication theory and research issues in interpersonal, small group, organizational, public relations, and mass media contex.

439 INDEPENDENT STUDY

(May be repeated for a total of 12 credits) Prerequisite: permission of faculty. Directed independent readings, research, projects and productions. Written proposal must be submitted before permission is granted. Appropriate documentation of work required.

SPECIAL TOPICS IN COMMUNICATION

(May be repeated for a total of nine credits) Special interest topics in mass communication, journal ism, or communication, supplementing courses listed in University Bulletin. See department for current listing of offerings

454/554 THEORY OF GROUP PROCESSES

3 credits Group communication theory and conference leadership as applied to individual projects and seminar reports.

457/557 PUBLIC SPEAKING IN AMERICA

Survey and critical analysis of major speakers, speeches and speech movements in American history. Examines how style and content of American speaking influenced events and reflected their times.

462/562 ADVANCED MEDIA WRITING

Prerequisites: 280, 300, 387 or equivalent. Practical applications of script writing principles and techniques, focusing on the skills and discipline required to finish an entire script.

468/568 NONLINEAR VIDEO EDITING

Prerequisite: 280 or equivalent. Advanced computerized multitrack audio and video editing. Theory and practice of multi-track sound mix for video productions.

470 ANALYSIS OF PUBLIC DISCOURSE

3 credits Identifies principal textual and contextual elements of public discourse and presents various theories and models to be applied in studying rhetorical acts.

471/571 THEORIES OF RHETORIC

Study of key figures in history of rhetorical theory, stressing interrelationships among theories of rhetoric, intellectual climates and social climates.

- 472 SINGLE CAMERA PRODUCTION 3 credits Prerequisites: 280, 368. Principles of electronic image recording; field camera operation; field location lighting practice
- 480 COMMUNICATION INTERNSHIP 1-8 credits (May be repeated for a total of eight credits) Prerequisites: 24 credits in departmental courses, 2.5 overall GPA, and permission. Provides student with supervised experience and on-the-job training. Written permission must be obtained from the School prior to the term for which credit is to be received
- 481 FILM AS ART: AN INTRODUCTION TO THE FILM FORM 3 credits Explores the formal laws that govern a film acquainting the students with the film narrative and stylistic elements.

484 REGULATIONS IN MASS MEDIA 3 credits Concentration on government regulations and self-regulatory bodies in broadcasting, film and print

media.

- 485 SENIOR HONORS PROJECT IN COMMUNICATION 1-6 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program; approval of honors preceptor. Independent study project leading to completion of senior honors thesis or other original work.
- 486 BROADCAST SALES AND MANAGEMENT 3 credits Prerequisite: 384. Using simulation and case history techniques, this course examines the sales and decision-making processes of a broadcast station.

1-3 credits

490/590 COMMUNICATION WORKSHOP (May be repeated for a total of six credits) Group study or group projects investigating a particular

phase of media not covered by other courses in curriculum. 493/593 PRODUCTION PRACTICUM 3 credits Prerequisite: permission. Practical application of writing, directing, management, recording, and

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

editing skills in problems in electronic media production.

7700:

3 credits

1-12 credits

3 credits

3 credits

3 credits

3 credits

3 credits

- 101 INTRODUCTION TO AMERICAN SIGN LANGUAGE 3 credits Introduction to American Sign Language: vocabulary building, beginning development of fingerspelling skills, receptive/expressive conversational skills.
- 102 AMERICAN SIGN LANGUAGE I 3 credits Prerequisite: 101. Continued development of skills in American Sign Language: vocabulary building, beginning development of fingerspelling skills, receptive/expressive conversational skills.
- 110 INTRODUCTION TO DISORDERS OF COMMUNICATION 3 credits Overview of various types of speech disorders; their incidence, etiology and characteristics. Basic concepts and principles underlying speech pathology.
- 120 INTRODUCTION TO AUDIOLOGY/AURAL REHABILITATION 4 credits (Not open to speech-language pathology and audiology major) Introduction to field of audiology including physics of sound, anatomy and physiology of auditory system, measurement of hearing impairment, nature and causes of hearing disorders and habilitation of persons with hearing impairment.
- 121 ASPECTS OF AMERICAN SIGN LANGUAGE 2 credits Prerequisite: 102. Study of selected aspects of American Sign Language, including, but not limited to fingerspelling and number systems.
- 149 INTRODUCTION TO HEARING SCIENCE 3 credits Normal anatomy and physiology of hearing system and acoustics of hearing. Survey of field of audiology. Nature of hearing problems.
- 201 AMERICAN SIGN LANGUAGE II 3 credits Prerequisite: 102. Continued development of skills in American Sign Language: vocabulary building, beginning development of fingerspelling skills, receptive/expressive conversational skills.
- 202 CONVERSATIONAL AMERICAN SIGN LANGUAGE 3 credits Prerequisite: 201. Further practice in developing expressive/receptive communication, finger-spelling and fluency: Study of linguistic aspects of various manual communication systems.
- 210 INTRODUCTION TO CLINICAL PHONETICS 4 credits Prerequisite: 110. Introduction to international phonetic alphabet. Transcribing normal and disordered speech. Overview of articulatory and coustic phonetics. Introduction to distinctive fea tures, phonological processes. Analyzing disordered articulation.
- 211 INTRODUCTION TO SPEECH SCIENCE 2 credits Study of anatomical, physiological and physical principles involved in production, transmission and reception of speech signal.
- 222 SURVEY OF DEAF CULTURE IN AMERICA 2 credits The deaf experience in America including educational, legal, social, and occupational developments.
- 230 LANGUAGE SCIENCE AND ACQUISITION 4 credits Prerequisite: 130 or permission. An introduction to language science and the study of the language acquisition process. The characteristics and explanations of language development will be presented.
- 240 AURAL REHABILITATION 4 credits Prerequisite: 140. Introduction to philosophy and methods of aural rehabilitation for children and adults. Includes methods of speech reading, auditory training, speech conservation, hearing aid use and combined visual and auditory approaches.

- 241 PRINCIPLES OF AUDIOMETRY 3 credits Prerequisite: 140. Introduction to psychoacoustic principles which underlie basic audiometric tests; principles of speech audiometry, masking and impedance audiometry.
- 250 OBSERVATION AND CLINICAL METHODS 2 credits Corequisites: 240 or 321 or 330. Introduction to clinical procedures. Analysis of preparation and structure necessary for successful therapy; observation of therapy in different settings.
- ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 credits Prerequisites: 3100:265. Corequisites: 266. Study of the anatomy and physiology of organs directly and indirectly responsible for production of speech and perception of acoustical signals.
- ANATOMY AND PHYSIOLOGY LABORATORY 266 1 credits Corequisites: 265. Laboratory to accompany lecture, includes hands-on experience with a variety of laboratory materials, primarily models and virtual dissection.
- ARTICULATORY AND PHONOLOGIC DISORDERS 321 4 credits Prerequisites: 110, 210. Study of disorders of articulation/phonology, including normal phonologi-cal developments, and assessment and remediation of phonological disorders. Introduction to disorders related to velopharyngeal inadequacy.
- 322 ORGANIC DISORDERS OF COMMUNICATION 4 credits Prerequisites: 110 and 3100:264, or permission of instructor. Surveys communication disorders that accompany acquired neurological impairments and neurodevelopmental syndromes Introduces neurological and genetic models, classification systems, diagnostic and treatment procedures.

330 LANGUAGE DISORDERS

4 credits Prerequisite: 230. Etiology, identification, evaluation, intervention, remediation of symbolic, cognitive, interpersonal language disorders of children. Disorders viewed as correlates or sequelae of central nervous system dysfunction or emotional disturbance.

340 AUDIOLOGIC EVALUATION

Prerequisite: 241. "Test battery" approach to audiometry explored; techniques of case finding and handling of difficult-to-test cases; competency with all tests in the battery required.

350 ENTRANCE PRACTICUM 3 credits Prerequisites: 240, 250, 330 and 321. Initial pre-professional experience where student learns clinical procedures for intervention as well as responsibilities for clinic service delivery.

351 SPEECH-LANGUAGE SCREENING PRACTICUM

Prerequisites: 321, 330 and 350. Pre-professional experience where student learns speech-language screening procedures and report preparation for various age groups and disability categories and responsibilities for clinic service delivery.

430/530 ASPECTS OF NORMAL LANGUAGE DEVELOPMENT

3 credits (Not open to speech-language pathology and audiology majors) Introduction to acquisition and development of comprehension and production of language phonologically, semantically and syntactically. Relates language acquisition to perceptual development of child and looks at func-tion of language in individual, family and school.

440/540 AUGMENTATIVE COMMUNICATION 3 credits Prerequisites: 330 or 430/530 or permission of instructor. Overviews augmentative communication systems-candidates, symbol systems, devices, vocabulary, funding. Considers interdisci-

445/545 MULTICULTURAL CONSIDERATIONS FOR AUDIOLOGISTS 2 credits AND SPEECH-LANGUAGE PATHOLOGISTS

Prerequisites: 110 or graduate standing. This course introduces the multicultural considerations faced by audiologists and speech-language pathologists providing services to families and individuals with communication disorders.

ASSESSMENT OF COMMUNICATIVE DISORDERS 450

Prerequisite: senior status; 321, 330 and 350, or permission. Introduction to differential diagnosis of communicative disorders. Emphasizes taking case histories, and administration and interpretation of tests and procedures

451 AUDIOLOGY SCREENING PRACTICUM

plinary issues in assessment/intervention.

2 credits Prerequisites: 240, 340 and 350. Pre-professional experience where student learns audiology screening procedures and report preparation for various age groups and disability categories and responsibilities for clinic service delivery.

460/560 SPEECH-LANGUAGE AND HEARING DISORDERS IN THE 2 credits PUBLIC SCHOOLS

(Not open to speech-language pathology and audiology major) Nature, causes and treatment of speech, hearing and language disorders in public schools. Special reference to role of classroom teacher in identifying and referring student with suspected problems and in working with school clinician.

461/561 ORGANIZATION AND ADMINISTRATION: PUBLIC SCHOOL 2 credits SPEECH-LANGUAGE AND HEARING PROGRAMS

Prerequisites: Senior or graduate standing. For clinicians who plan to work in public school systems. Covers program requirements and professional/ethical issues imposed by PL 94-142.

480 SEMINAR IN SPEECH-LANGUAGE PATHOLOGY AND/OR AUDIOLOGY Prerequisite: senior standing. Provides a vehicle for detailed study and discussion of various communicative disorders.

481 SPECIAL PROJECTS:

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (May be repeated for a total of four credits) Prerequisite: permission of instructor. Individual or group projects related to any of the problems of communicative disorders

483/583 COMMUNICATION DISORDERS: GERIATRIC POPULATION 3 credits (Not open to speech-language pathology and audiology major) Examination of communication disorders that exist in geriatric population. Focus on etiology, symptomatology and concomitant rehabilitative procedures. Designed for a student interested in the aging population.

485/585 TEACHING & LEARNING STRATEGIES

IN SPEECH-LANGUAGE PATHOLOGY 2 credits Current practice related to clinical intervention designed for individuals with developmental disabilities. Explores the use of the natural environment and the computer as intervention tools.

- 490/590 WORKSHOP: SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Group investigation of particular phase of speech pathology and/or audiology not offered by other courses.
- 495 INTERNSHIP: SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3-6 credits Prerequisite: permission of director of Speech and Hearing Center. Affords opportunity for indepth clinical experience in variety of clinical settings outside The University of Akron Speech and Hearing Center. On-the-job experience with specialized case populations.
- 496 SENIOR HONORS PROJECT: SPEECH-LANGUAGE PATHOLOGY 1-3 credits AND AUDIOLOGY

(May be repeated for a total of six credits) Prerequisites: enrollment in the Honors Program, senior standing and major in speech-language pathology and audiology.

SOCIAL WORK

7750:

2 credits

2 credits

1-3 credits

- 270 POVERTY IN THE UNITED STATES Survey of social and personal dimensions of life in the inner city and other areas of poverty in
 - United States. For person wishing to develop an in-depth understanding and/or intending to work in such areas

3 credits

3 credits

3 credits

276 INTRODUCTION TO SOCIAL WELFARE Survey of field of social welfare; place of social work profession within human services institutions of United States. Introduction of basic concepts relating social welfare institutions and social work to society.

401/501 SOCIAL WORK PRACTICE I

Prerequisite: Social Work major; Corequisite 410. Basic concepts and methods of Generalist social work practice, with an emphasis on understanding and working with individuals. 3 credits

402/502 SOCIAL WORK PRACTICE II Prerequisite: 401; Corequisite 410; or permission of instructor. Concepts and methods of social

work practice particularly relating to understanding and working with groups in various settings in our society 403/503 SOCIAL WORK PRACTICE III 3 credits

Prerequisite: 401 and 410, or permission of instructor. Development of understanding and practice methods for utilization of community organization and social planning as social work process in assessing problems and developing program to meet needs.

404/504 SOCIAL WORK PRACTICE IV

3 credits Prerequisite: 401, 410, or permission of instructor. Professional social work practice with families in social services; the dynamics of family systems, assessment of family function and dysfunction, professional helping processes.

410/510 MINORITY ISSUES IN SOCIAL WORK PRACTICE 3 credits

Prerequisite: Social Work major, Corequisite 401, permission of instructor. Racial, ethnic and cultural issues in social work related to various practice and theoretical perspectives, to various types of social problems, service agencies, individual family, group, community and societal contexts integrated with the methodological processes of the social work practitioners.

411/511 WOMEN'S ISSUES IN SOCIAL WORK PRACTICE 3 credits

- Prerequisite: 401 or permission of instructor. Social work practice, knowledge and skill, social welfare institutions and social policy in relation to women's issues and concerns in the United States. 421 INTRODUCTION TO THE FIELD EXPERIENCE 1 credit
- Prereguisites: 401, 410, and permission of instructor; corequisite: 495. Assists students in making the transition from classroom learning to experiential learning i the field practicum

422 FIELD EXPERIENCE SEMINAR 1 credit Prerequisite: 421 or permission of instructor. Assists students in integrating, synthesizing, and applying classroom knowledge to field experiences and assignments.

425/525 SOCIAL WORK ETHICS 3 credits Prerequisite: Social Work major, permission of instructor. Social Worker's code of ethics as applied to practices, problems and issues in social work.

427/527 HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT I 3 credits Social work perspective on human development across the life cycle. Human diversity approach consistent with the needs of social work students preparing for practice.

3 credits 430/530 HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT H

Prerequisite: Social Work major, 427, or permission of instructor. Examination of larger social systems including families, groups, neighborhoods, and organizations. Focuses on the unique systemic characteristics of each system and its development 3 credits

H0/540 SOCIAL WORK RESEARCH I

Prerequisites: Social Work major or permission of instructor. Overview of scientific inquiry and the research process as it applies to the field of social work. Emphasis is placed on the various social worker roles in relation to research.

441/541 SOCIAL WORK RESEARCH II

Prerequisite: 440 or permission of instructor. A continuation of Social Work Research I with a focus on applying research concepts. Includes content on the evaluation of practice outcomes and the use of computers in data analysis.

445/545 SOCIAL POLICY ANALYSIS FOR SOCIAL WORKERS 3 credits Prerequisite: Social Work major, permission of instructor. Description, analysis and construction

of social policy in social services; to understanding forces and processes which establish or change social policies, to predict consequences of social policies and to establish goals for social policy development; integrated into effective social work methodology.

450/550 SOCIAL NEEDS AND SERVICES: AGING

3 credits Prerequisite: 401 or permission of instructor. Application of knowledge and principles of profes-sional social work practice to understanding, development and provision of social services to meet needs of aging and later mature individuals, families and communities and institutions serving them and their relatives.

3 credits

3 credits

3 credits

3 credits

3 credits

451/551 SOCIAL WORK IN CHILD WELFARE

Prerequisite: 401 or permission of instructor. In-depth exploration of structure and functioning of social services designed to help children, and of practice of social work in child-welfare settings. Consideration of supportive, supplementary and substitutive services.

452/552 SOCIAL WORK IN MENTAL HEALTH

Prerequisite: 401 or permission of instructor. Issues, organization, development and methodologies of current professional social work practice in mental-health settings.

454/554 SOCIAL WORK IN JUVENILE JUSTICE

Prerequisite: 401 or permission of instructor. The theory and practice of social work in the juvenile justice systems of the United States. Traditional procedures and recent developments, prevention, diversion and community outreach, legal concerns, case management, institutional functioning.

455/555 BLACK FAMILY ISSUES

Prerequisite: 401 or permission of instructor. Contemporary problems facing black families; male-female relationships, single parent households, black teens and elderly, public policy, theoretical models, explaining development of the black family.

456/556 SOCIAL WORK IN HEALTH SERVICES

Prerequisite: 401 or permission of instructor. Policies, programs and practice in health-care settings: short-term, intermediate and long-term hospitals, out-patient services, emergency services, clinics, visiting nurse services, nursing homes, pediatric services, self-help organizations.

457/557 ADVANCED PRACTICE WITH INDIVIDUALS

3 credits Prerequisite: 401 or permission of instructor. Advanced professional development of direct and indirect strategies and techniques of intervention to aid individuals in improving psychosocial functioning.

458/558 ADULT DAY CARE

Prerequisite: 401 or permission of instructor. Planning, development, implementing, evaluating and delivery of adult day-care services.

459/559 SOCIAL WORK WITH THE MENTALLY RETARDED

Prerequisite: 401 or permission of instructor. Application of social work principles in the provision of social services to meet the needs of the mentally retarded and developmentally disabled and their families.

465/565 ADMINISTRATION AND SUPERVISION IN SOCIAL WORK 3 credits Prerequisite: 401 or permission of instructor. Preparation for use of supervision, staff development, and program planning in a social work agency. Examines the social work/welfare agency in its community as it affects its organizational goal-setting and program-implementation problems.

470/570 LAW FOR SOCIAL WORKERS 3 credits Prerequisite: 401 or permission of instructor. Basic terminology, theones, principles, organization and procedures of law will be explored along with the relationships between social work and law and comparisons of the theoretical bases of the two professions.

475/575 SUBSTANCE ABUSE AND SOCIAL WORK PRACTICE

3 credits Prerequisites: 401 or permission of instructor. Provides students with the essential knowledge and skill for successful social work practice with people involved in substance abuse.

480/580 SPECIAL TOPICS IN SOCIAL WORK AND SOCIAL WELFARE

Prerequisite: permission of instructor. Analysis of current social work and social welfare theory and policy, settings, innovative interventions, and trends in delivery systems in relation to selected areas of concern. Topics and credits variable.

495 FIELD EXPERIENCE IN SOCIAL AGENCY

(Total in consecutive semesters only) Prerequisites: 401, 410, 427, and permission of instructor; corequisites: 421 and 422 in consecutive semesters. Individual placement in selected community and social service agencies for supervised experience with individuals, groups and communities in family service, health care, corrections, community development, mental health, child welfare, public welfare and similar social welfare settings. Student must register intent and receive permission to take the course with the Field Coordinator during early part of semester preceding enrollment. For senior majors in social work.

497/597 INDIVIDUAL INVESTIGATION IN SOCIAL WORK

Prerequisites: permission and prearrangement with instructor. Individual readings, research or projects in area of interest in social welfare theory or institutional operations or in social work practice under guidance of social work faculty member. Preparation of report paper appropriate to nature of topic. For social work major.

499 SENIOR HONORS PROJECT IN SOCIAL WORK

1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and approval of honors preceptor in department. Open only to social work major enrolled in Honors Program. Independent study leading to completion of senior honors thesis or other original work resulting in writing of research paper in proper scholarly form, supervised by student's honors project adviser within the department.

THEATRE

7800:

100 EXPERIENCING THEATRE Experience the theatre as a live, dynamic art form through an exposure to and participation in University productions.

106 INTRODUCTION TO SCENIC DESIGN

3 credits Introduction to the theory of scenic design and imagery. The course may include the application of these principles to other media

107 INTRODUCTION TO STAGE COSTUMING Introduction to basic costume construction techniques, organization and maintenance of wardrobe for theatrical performance. Lab required.

145 MOVEMENT TRAINING 3 credits Specialized physical training for the actor.

151 VOICE AND DICTION 3 credits Speech improvement as it specifically applies to the stage. This course is concerned with the proper techniques and principles of vocal production in their practical application to stage performance.

Study of successful methods of theatre organization and production stage management of professional and non-professional performing arts operations. 230 HISTORY OF THE THEATRE 3 credits Prerequisite: 100 or permission of instructor. Theatre history from the Greeks to the present with the emphasis on the physical theatre, stage conventions, and theatre architecture of each period. STAGE MAKEUP 3 credits 262 Theory and practice in the application of stage makeup from juvenile to character. Lecture/Lab. 263 SCENE PAINTING 3 credits The development of skills and knowledge of stage scenic painting required for the theatre designer and technician. Laboratory required. 265 BASIC STAGECRAFT 3 credits Basic stagecraft including equipment, construction and handling of two-dimensional scenery and the atrical hardware. Laboratory required. 3 credits 271 DIRECTING I Prerequisites: 100 and 172 or permission of instructor. Emphasizes fundamentals of play directing, including responsibilities of director, stage nomenclature, play selection, character analysis and rehearsals. One-act form emphasized.

Introductory fundamentals of acting through the investigation of the body as an instrument for the

301 INTRODUCTION TO THEATRE THROUGH FILM

stage, improvisation and basic scene study.

200 THEATRE ORGANIZATION AND PRODUCTION MANAGEMENT

Prerequisite: 3400:210. A study of the Theatre with emphasis on its cultural and social influences on our society

307 ADVANCED STAGE COSTUMING

Prerequisite: 107. Specialized construction techniques for costumes, armor, masks, jeweiry, millinery, and footwear 321 MUSICAL THEATRE HISTORY II 2 credits

Concentrating on the twentieth century, musicals from each decade will be examined for emerging trends and styles in music, dance, theatre and libretti,

330 DRAMATIC LITERATURE I 3 credits Prerequisites: 230 or permission of instructor. An in-depth exploration of stage plays from the Classical Greek period to 1800, with emphasis on the relationship of plays to various cultures

333 SUMMER THEATRE 3 credits Prerequisites: Permission of instructor/audition, Practical laboratory experiences in one or more disciplines during the summer session doing production and/or management work. Permission only. (Repeatable to 12 credits.)

351 ADVANCED VOICE AND MOVEMENT Prerequisites: 145, 151. Advanced training in movement techniques and vocal work, integrating the performer's physical and vocal instrument.

355 STAGE LIGHTING DESIGN 3 credits The art and technique of stage lighting design: light plotting, color theory, and optical effects.

371 DIRECTING I 3 credits Prerequisites: 271 and permission. Advanced course in practical techniques of staging plays from major theatrical periods as well as principles of working with the actor.

373 ACTING I

172 ACTING I

3 credits

1-3 credits

8 credits

1-3 credits

3 credits

3 credits

3 credits Prerequisite: 172. Continuation of 172. Further emphasis on the psychology of the actor and development of performing techniques through scene study.

374 ACTING III

3 credits Prerequisite: 373. Further in-depth actor training with emphasis on the language and interpretation of classic plays including Shakespeare.

403 SPECIAL TOPICS IN THEATRE ARTS. 1-4 credits (May be repeated as different subject areas are covered, but no more than 10 credits may be applied

toward B.A. degree) Prerequisite: permission. Traditional and nontraditional topics in theatre arts, supplementing courses listed in the General Bulletin. 421 MUSICAL THEATRE PRODUCTION 3 credits

Designed to make the theatre student aware of the total creative process involved in mounting a stage musical.

430 DRAMATIC LITERATURE II 3 credits Prerequisite: 330 or permission of instructor. An in-depth exploration of stage plays from the 19th Century to modern times with an emphasis on the relationship of plays to various cultures.

436 STYLES OF SCENIC DESIGN 3 credits Prerequisite: 365. Theatrical styles and periods in scenic design and scenography.

467/567 CONTEMPORARY THEATRE STYLES

A detailed examination of representative plays of the contemporary theatre with an emphasis on plays of the 1980s and 1990s.

470/570 THEATRE IN EDUCATION 3 credits Prerequisites: 100, 172. An in-depth experience with current theories, methods, and materials in P-12

theatre education and process drama techniques. Field experience provided when possible 475/575 ACTING FOR THE MUSICAL THEATRE 3 credits

Prerequisites: 172 or permission of instructor. A scene study course in analyzing and performing roles in American musicals. Accompanist provided.

480 INDEPENDENT STUDY 1-3 credits Practice, study, and/or research in selected elements of theatre arts and production including preparation and presentation of creative and technological projects..

490/590 WORKSHOP IN THEATRE ARTS

1-3 credits (May be repeated for a total of eight credits) Prerequisite: advanced standing or permission. Group study or group projects investigating particular phases of theatre arts not covered by other courses in curriculum.

THEATRE ORGANIZATIONS

7810:

100 PRODUCTION LABORATORY-DESIGN/TECHNOLOGY** 1 credit Prerequisite: permission of instructor. (May be repeated for a total of 12 credits) Provides student with practical experience in technical aspects of theatre.

110 PERFORMANCE LABORATORY* 1 credit (May be repeated for a total of 12 credits) Prerequisites: permission of instructor. Provides student with practical performance experience theatre productions.

- 200 PRODUCTION LABORATORY-DESIGN/TECHNOLOGY** 1 credit Prerequisite: permission of instructor. (May be repeated for a total of 12 credits) Provides student with practical experience in technical aspects of theatre.
- 210 PERFORMANCE LABORATORY* 1 credit (May be repeated for a total of 12 credits) Prerequisites: permission of instructor. Provides student with practical performance experience in theatre productions.
- 300 PRODUCTION LABORATORY-DESIGN/TECHNOLOGY** 1 credit Prerequisite: permission of instructor. (May be repeated for a total of 12 credits) Provides student with practical experience in technical aspects of theatre.
- 310 PERFORMANCE LABORATORY* 1 credit: (May be repeated for a total of 12 credits) Prerequisites: permission of instructor. Provides student with practical performance experience in theatre productions.
- 400 PRODUCTION LABORATORY-DESIGN/TECHNOLOGY** 1 credit Prerequisite: permission of instructor. (May be repeated for a total of 12 credits) Provides student with practical experience in technical aspects of theatre.
- 410 PERFORMANCE LABORATORY* 1 credit: (May be repeated for a total of 12 credits) Prerequisite: permission of instructor. Provides student with practical performance experience in theatre productions.

DANCE 7900:

115 DANCE AS AN ART FORM 2 credits Survey of dance for novice observer: aesthetics, philosophies, methods of training. Lecture and discussion of readings, viewing of film, videotape and live performances 2 credits 119 MODERN I (May be repeated for a total of four credits) Exploring the basic principles of modern dance with an emphasis on body alignment and muscular awareness MODERN II 120 (May be repeated for a total of four credits) Prerequisite: permission. Continuation of 119. Increasing movement vocabulary, muscular strength and coordination of modern dance. 2 credits 124 BALLET I (May be repeated for a total of four credits) Emphasis on body placement, muscular awareness. 2 credits BALLET II 125 (May be repeated for a total of four credits) Prerequisite: permission. Continuation of 124. Basic exercises of classical ballet JAZZ DANCE I 2 credits 130 (May be repeated for a total of four credits.) Basic jazz dance technique and jazz dance origins. 2 credits TAP DANCE I 144 (May be repeated for a total of four credits.) Basic tap dance technique and terminology. TAP DANCE II 2 credits (May be repeated for a total of four credits.) Prerequisite: 7900:144 or permission. Refinement of Tap technique and stylistic range of Tap dance. BALLROOM DANCE I 1 credit (May be repeated for a total of four credits.) Introduction to the basic patterns and techniques of major ballroom dances. 3 credits VIEWING DANCE 200 Prerequisite: 3400:210. To explore dance as an art form through experiential activities, dance literature, film and live performance for non-dance majors. 2 credits MODERN III 219 (May be repeated for a total of four credits) Prerequisite: Permission. Continuation of 120. Introduction to current modern dance styles and techniques. 220 MODERN IV 2 credits May be repeated for a total of four credits.) Prerequisite: Permission. Continuation of 219. Application of basic modern dance theory of current modern dance styles and techniques 3 credits 224 BALLET IN (May be repeated for a total of six credits) Prerequisite: Permission. Continuation of 125. Emphasis on barre and developing strength. 225 **BALLET IV** 3 credits (May be repeated for a total of six credits) Prerequisite: 7900:224 or permission. Continuation of 224. Emphasis on the increase of strength and flexibility. JAZZ DANCE I 2 credits (May be repeated for a total of four credits.) Prerequisite: 130. Continuation of basic jazz technique and stylistic range of jazz dance.

- 403 SPECIAL TOPICS IN DANCE 1-4 credits (May be repeated as different subject areas are covered, but no more than 10 credits may be applied toward B.A. degree) Traditional and non-traditional topics in dance, supplementing courses listed in General Bulletin.
- 490/590 WORKSHOP IN DANCE 1-3 credits (May be repeated for a total of eight credits) Prerequisite: Advanced standing or permission. Group study or group projects investigating particular phase of dance not covered by other courses in curriculum.

DANCE ORGANIZATIONS

7910:

- 101 CLASSICAL BALLET ENSEMBLE**
- By audition only. Participation in rehearsal and preparation for public performance of classical ballet repertoire. 102 CHARACTER BALLET ENSEMBLE** 1 credit

1 credit

- By audition only. Participation in rehearsal and preparation for public performance of character ballet repertoire.
- 103 CONTEMPORARY DANCE ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of contemporary dance repertoire.
- 104 JAZZ DANCE ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of jazz dance repertoire.
- 105 MUSICAL COMEDY ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of dance production numbers in a musical comedy.
- 106 OPERA DANCE ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of dance sequences in an opera.
- 107 EXPERIMENTAL DANCE ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of avant-garde dances.
- 108 CHOREOGRAPHER'S WORKSHOP** 1 credit By audition only. Participation in rehearsal and preparation for public performance of student dances.
- 109 ETHNIC DANCE ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of ethnic dance repertoire.
- 110 PERIOD DANCE ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of dances from specific historical periods such as the Renaissance or Baroque eras.
- 111 TOURING ENSEMBLE** 1 credit By audition only. Participation in rehearsal and preparation for public performance of any dances prepared for touring purposes.
- 112 DANCE PRODUCTION ENSEMBLE** 1 credit By permission only. Participation in technical assistance, preparation and performance of student dance productions: theory and laboratory.
- 200 SOPHOMORE JURY O credits Prerequisite: Sophomore standing. The passing of the Sophomore Jury is a degree requirement. It may not be taken more than twice. Offered on a credit/noncredit basis.

- * Required of all theatre majors.
- # Majors are required to enroll in at least one credit production lab every semester they are in residence.

** Course may be repeated for credit. Total credit for graduation may not exceed 12 credits. All courses are by audition only.

2 and its

2 credits

2 credits

5 credits

3 credits

3 credits

2 credits

2 credits

2 credits

5 credits

3 credits

2 credits

DANCE PERFORMANCE

7920:

116 PHYSICAL ANALYSIS FOR DANCE I

Prerequisites: 3100:200, 201. Required for all dance majors. Recommended to be taken in first two years, Lecture/laboratory, Skeletal and muscular analysis for dance technique.

117 PHYSICAL ANALYSIS FOR DANCE II

Prerequisite: 116. Support systems, conditioning injury prevention, rehabilitation, nutrition for dancers.

122 BALLET V ture, placement. Concurrent enrollment in pointe class recommended.

141 POINTEL 2 credits (May be repeated for a total of eight credits) Prerequisite: Permission. Reinforcement of selection principles for pointe shoes, proper holding of foot muscularly and control of heel while ascending and descending from pointe.

(May be repeated for a total of 20 credits) Prerequisite: Permission. Theory, vocabulary, struc-

222 BALLET VI

5 credits (May be repeated for a total of 20 credits) Prerequisite: permission. Continuation of 122, expanding theory on vocabulary, structure, placement. Concurrent enrollment in pointe class recommended.

228 MODERN V

(May be repeated for a total of six credits) Prerequisite: Permission. The intermediate study of modem dance styles and techniques through the application of more complex movement theories, rhythmic patterns and improvisational studies,

229 MODERN VI

(May be repeated for a total of six credits) Prerequisite: Permission. Introduction to intermediate theory of current modern dance styles and techniques.

241 POINTE II

(May be repeated for a total of 12 credits) Prerequisite: Permission. Continuation of 141. Continued development of strength, coordination and endurance of holding foot muscularly. Further development and emphasis on principles of weight transfer.

246 TAP DANCE III

2 credits (May be repeated for a total of four credits.) Prerequisite: 145. Advancement of Tap dance technique through the use of complex combinations, syncopation, routines, and styles.

270 MUSICAL THEATRE DANCE TECHNIQUES

3 credits Prerequisites: 7900:119, 7900:124, 7900:130, 7900:144, 7900:230; or permission. Precision, line and vernacular dance; couple and solo dance work for musical theatre.

316 CHOREOGRAPHY I

2 credits Prerequisite: Permission of the instructor. Theoretical and practical introduction to principles of choreography: space, time, energy.

317 CHOREOGRAPHY II

Prerequisite: 316 and permission. Continuation of 316. Emphasis on musical choices and finding movement specific to the individual choreographer.

320 MOVEMENT FUNDAMENTALS

Beginning study of Labanotation method of recording movement, and Laban's theories of effort, space, and shape.

321 RHYTHMIC ANALYSIS FOR DANCE

2 credits By permission only. Not open to new freshmen. Lecture and application of basic rhythmic structures used in dance and dance instruction.

322 BALLET VII

(May be repeated for a total of 30 credits) Prerequisite: permission. Continuation of 222. Emphasis on technique, style, line. Concurrent enrollment in pointe class recommended.

328 MODERN VI 3 credits (May be repeated for a total of 12 credits) Prerequisite: permission from instructor. Refinement and and stylization of modern techniques for performance for modern dance.

329 MODERN VIII

(May be repeated for a total of 12 credits) Prerequisite: permission. Application of advanced modern dance technique and styles ..

334 PAS DE DEUX I

(May be repeated for a total of eight credits) Prerequisites: permission; concurrent enrollment in a pointe class recommended. Provides student with the beginning understanding and practice of pas de deux.

341	(May be repeated for a total of 16 credits) Prerequisite: permission. Continuation of 241. Advancement, development and application of principles of classical ballet technique through work on small variations, codas, enchainements and tour de force exercises.
347	TAP DANCE IV 2 credits (May be repeated for a total of eight credits.) Prerequisite: 246. Advanced tap combinations, styles, routines.
351	JAZZ DANCE III 2 credits (May be repeated for a total of four credits.) Prerequisite: 7900:130 or placement audition. Intermediate jazz dance technique and the jazz eras.
361	LEARNING THEORY FOR DANCE 2 credits Prerequisites: 7900:115, 224; 3750:100 or permission of instructor. Theories of learning and their use in teaching dance.
362	INSTRUCTIONAL STRATEGIES FOR DANCE 2 credits Prerequisite: 361. Practical work and development of teaching skills in dance for public and private settings.
403	SPECIAL TOPICS IN DANCE 1-4 credits (May be repeated. No more than 10 credits may be applied toward the B.F.A. or B.A.) Prerequisite: Permission. Traditional and nontraditional topics in dance.
416	CHOREOGRAPHY III 2 credits Prerequisite: 317, permission. Continuation of 317. Emphasis on form and choreographic analysis.
417	CHOREOGRAPHY IV 2 credits Prerequisite: 416 and permission. Continuation of 416. Expanding into group choreography and longer works.
422	BALLET VIII 5 credits (May be repeated for a total of 40 credits) Prerequisite: Permission. Continuation of 322. Advanced level of technique. Concurrent enrollment in pointe class recommended.
430	HISTORY OF MUSICAL THEATRE IN DANCE 2 credits Prerequisite: 7900:115. Focus on dance styles and choreographers in Musical Theatre from a historical perspective.
431	DANCE HISTORY: PREHISTORY TO 1961 2 credits Prerequisite: 115 or permission. Study of important developments from prehistory through the Renaissance to the founding of the French Academy of Dance.
432	DANCE HISTORY: 1661 THROUGH DIAGHILEV ERA 2 credits Prerequisite: 115 or permission. Development of dance beginning with the establishment of the French Academy through the Romantic and Diaghilev Eras and their influence on current dance.
433	DANCE HISTORY: 20th CENTURY 2 credits Prerequisite: 115 or permission. Development of modern dance as an art form and the further evolution of ballet and concert dance.
451	JAZZ DANCE IV 2 credits (May be repeated for a total of eight credits.) Prerequisite: 351 or permission. Advanced jazz dance technique and styles for the professional dancer.
461	SEMINAR AND FIELD EXPERIENCE IN DANCE EDUCATION 2 credits Prerequisite: 362. Supervised observation and teaching experience in dance education in the field. Concurrent enrollment in 7910:108 Choreographers' Workshop.
462	PROFESSIONAL ISSUES IN DANCE EDUCATION 2 credits Prerequisite: 461. An examination of current issues and goals in dance education. Concurrent enrollment in 7910-108 Choreorganhers' Workshop

471 SENIOR SEMINAR 1 credit Prerequisite: upper class standing and permission. A forum to develop professional skills to make the transition to a dance career: artistic, academic, or business.

490/590 WORKSHOP IN DANCE 1-3 credits (May be repeated for a total of eight credits) Prerequisite: Advanced standing or permission. Group study/projects investigating a particular field of dance not covered by other courses.

497 INDEPENDENT STUDY IN DANCE 1-3 credits (May be repeated for a total of four credits) Prerequisite: Permission and prearrangement with instructor. Individual creative project, research or readings in dance with faculty advisor.

498 SENIOR HONORS PROJECT IN DANCE 1-3 credits (May be repeated for a total of six credits.) Prerequisites: Senior standing in Honors Program and approval of department preceptor. Creative project or research supervised by dance preceptor.

College of Nursing

COOPERATIVE EDUCATION

8000:

COOPERATIVE EDUCATION

(May be repeated). For cooperative education students only. Work experience in business, industry, or governmental agency. Comprehensive performance evaluation and written report required.

NURSING

8200:

100 INTRODUCTION TO NURSING

1 credit Introduces students to influences of past, present, and future political, legal, social, and cultural processes on the nursing profession and the roles of nurses.

101 INTRODUCTION TO BACCALAUREATE NURSING 1 credit Prerequisite: Licensed Practical Nurse. Introduces L.P.N./B.S.N. students to the purposes of baccalaureate nursing education. Explores philosophy, nursing theories, research, emerging roles, decision making, and the health care system.

FOUNDATIONS OF NURSING PRACTICE I 211

Prerequisite: Admission to the College. This course focuses on basic concepts and skills needed by novice nursing students in order to care for clients. This course will focus on nurse-client reletionships, communication, nursing process, psychomotor skills and beginning pharmacology. Clinical experiences will reflect these concepts and skills.

- 212 FOUNDATIONS OF NURSING PRACTICE II 5 credits Prerequisite: 211. Builds on Foundations of Nursing Practice I focusing on promoting holistic well being across the lifespan. Clinicals are with children and adults, acute and non-acute settings.
- 215 PROFESSIONAL ROLE DEVELOPMENT 2 credits Prerequisite: Admission to the College. Fosters the development of the professional role of the nurse in novice students as they begin nursing practice.

HEALTH ASSESSMENT 225 3 credits Prerequisite: Admission to the College. The skills of taking health histories and performance of basic physical assessment. Supervised practice in the Learning Resource Center

315 PATHOPHYSIOLOGY FOR NURSES

3 credits Prerequisite: Satisfactory completion of Sophomore level nursing courses. Develop understanding of basic concepts related to pathophysiologic mechanism of health, illness as applied to nursing. Emphasis on application to nursing using the nursing process.

325 CULTURAL DIMENSIONS OF NURSING

Prerequisites: Satisfactory completion of all required Sophomore level nursing courses. Nursing care of clients of diverse ethnicities is emphasized. Special attention is given to selected ethnic groups' communication patterns, spirituality, health beliefs and practices.

330 NURSING PHARMACOLOGY

Prerequisite: Satisfactory completion of Sophomore level nursing courses. Emphasis on fundamental concepts of pharmacology as applied to major drug classes, actions, and effects. Application of nursing process to drug therapy across life span.

CONCEPTS OF PROFESSIONAL NURSING

4 credits Prerequisite: Admission to the RN/BSN sequence. Introduces the RN to baccalaureate nursing. Focuses on the relationship of concepts and theories to the role of the professional nurse. Offered Summer only.

350 NURSING OF THE CHILDBEARING FAMILY

Prerequisite: Satisfactory completion of Sophomore level nursing courses. A theoretical and clinical basis for care of the childbearing family in varying degrees of health and in a variety of settings.

360 NURSING CARE OF ADULTS

5 credits Prerequisite: Satisfactory completion of Sophomore level nursing courses. Acute nursing care of adults with nutrition, elimination, metabolic, sexual, reproductive, and immunological concerns. includes theory and practice at the advanced beginner level.

NURSING CARE OF OLDER ADULTS

5 credits Prerequisite: Satisfactory completion of Sophomore level nursing courses. Acute nursing care of older adults with mobility, perception, circulation, and oxygenation concerns. Includes theory and practice at the advanced beginner level.

MENTAL HEALTH NURSING 380

Prerequisite: Satisfactory completion of Sophomore level nursing courses. Assists students in developing knowledge and skills for providing care to individuals with mental health needs in a variety of settings.

405 NURSING CARE OF HEALTHY INDIVIDUALS

Prerequisite: 336. Clinical course focusing on health care concepts across the life span with emphasis on health promotion.

409 INTERNATIONAL HEALTH

3 credits Prerequisite: Junior standing or Registered Nurse. A comparison of nursing in the Norwegian and American health care systems including educational, ethical, legal, political, demographic, and geographic influences on health care.

- 410 NURSING OF FAMILIES WITH CHILDREN 5 credits Prerequisite: Satisfactory completion of Junior level nursing courses. Theoretical and clinical nursing course focused on the child within a family context. Health problems of both acute and chronic nature are explored.
- 415 NURSING OF INDIVIDUALS WITH COMPLEX HEALTH PROBLEMS 5 credits Prerequisites: 405, 440. Introduces the RN/BSN student to patients and families with multiple health care needs. Focuses on critical and complex patient care situations.

430 NURSING IN COMPLEX AND CRITICAL SITUATIONS 4 credits Prerequisite: Satisfactory completion of all Junior level nursing courses. Introduces advanced beginners to the complexity of nursing care in acute complex and critical situations of patients with multi-system failures

435 NURSING RESEARCH

2 credits Prerequisite: Satisfactory completion of all Junior level nursing courses. Exploration of the effects of nursing research on the profession, become a knowledgeable consumer of research.

436 NURSING RESEARCH/RN ONLY 3 credits Prerequisite: Admission to RN/BSN sequence and RN/MSN bridge courses. Exploration of the effects of nursing research on the profession, becoming a knowledgeable consumer of research

440 NURSING OF COMMUNITIES

0 credits

5 credits

2 credits

5 credits

5 credits

5 credits

5 credits Prerequisite: Satisfactory completion of all Junior level nursing courses. A synthesis of nursing skills applied among various community populations. Health and illness care strategies within diverse health care systems to promote the health of groups.

446 PROFESSIONAL NURSING LEADERSHIP

5 credits Prerequisite: 405, 440. Provides the RN/BSN student with the theoretical foundation for leadership and management in a dynamic health care setting. Contemporary and classical approaches will be explored.

450 SENIOR NURSING PRACTICUM

5 credits Prerequisite: Satisfactory completion of all Junior level nursing courses. In-depth clinical nursing experiences with professional nurse preceptors in student selected health care settings. Leadership and management concepts with nursing are explored.

453/553 SCHOOL NURSE PRACTICUM I

5 credits Prerequisite: 5570:421/521, 5570:423/523, 225 or 650. Corequisites: 225 or 650 if not previously completed. Emphasis on clinical primary health care nursing to enhance positive health behavior outcomes of well children and adolescents with minor conditions on family, community, school contexts

454/554 SCHOOL NURSE PRACTICUM II 5 credits

Prerequisite: 5570:421/521, 5570:423/523, 225 or 650, 453/553 or waiver. Emphasis on primary health care nursing to enhance positive health behavior outcomes of childrer/adolescents with minor common health or behavioral problems and chronic illnesses.

- 455 PROFESSIONAL ISSUES 2 credits Prerequisite: Satisfactory completion of all Junior level courses. Exploration of facts, values, beliefs and ethics related to professional issues affecting the practice of nursing and role transition from student to professional.
- 460 ISSUES AND ROLES OF THE PROFESSION OF NURSING 3 credits Prerequisite: Admission to RN/MSN sequence. The focus of the course is to relate role theory to personal and professional life. Issues affecting the nursing profession and delivery of nursing

care are addressed CONCEPTS AND THEORIES OF PROFESSIONAL NURSING 3 credits Prerequisite: Admission to the RN/MSN Sequence. Selected concepts and theories relevant to

professional nursing are studied and related to nursing practice. Critical thinking strategies are utilized to examine nursing theories and concepts. 470 COMMUNITY HEALTH NURSING 4 credits

Prerequisite: 460, 465. Explores selected concepts and issues relevant to community health nursing. The effects of legal, ethical, economic, and political issues on community health nursing are discussed.

- 480 SENIOR HONORS PROJECT 1-3 credits Prerequisites: Senior standing in Honors Program and nursing major. Completion and presentation of an original investigation of a significant topic or creative work which must meet high standards of scholarship
- 485 LEADERSHIP AND MANAGEMENT ROLES IN PROFESSIONAL NURSING 5 credits Prerequisites: 460, 465, 470. Focuses on advanced role transition as it relates to the resocializa-tion process of professional nurses. Relates the resocialization of the nurse to leadership and management roles

489/589 SPECIAL TOPICS: NURSING

ic to discipline of nursing.

1-4 credits (May be repeated as new topics are presented) Group studies of special topics in nursing, May not be used to meet requirements for the major in nursing. May be used for elective credit.

-4 credits

493/593 WORKSHOPS

(May be repeated as new topics are presented) Selected topics in nursing. May be used to meet undergraduate or graduate major requirements at the discretion of the college. 497 INDEPENDENT STUDY 1-3 credits Prerequisite: permission of Director of Nursing Education, and good academic standing. Provides opportunity to develop greater depth in an area of nursing through methodology specif-

College of Polymer Science and Polymer Engineering

INTERDISCIPLINARY COURSES: POLYMER SCIENCE AND

POLYMER ENGINEERING

9821:

- 281 POLYMER SCIENCE FOR ENGINEERS 2 Credits Prerequisites: 3150:151 and 152. Chemical bonds and structure of organic molecules, polymer chain structure, amorphous and crystalline morphology and structural characterization, polymerization and copolymerization, experimental demonstrations, typical solid-state and flow properties.
- 381 POLYMER MORPHOLOGY FOR ENGINEERS 3 Credits Prerequisites: 281. 3150:151, 3650:292. Fundamental understanding of solid structure, crystallography and morphology, processed polymers, co-polymers and their blends.

POLYMER ENGINEERING

9841:

- 321 POLYMER FLUID MECHANICS 3 Credits Prerequisite: 4600:310 or equivalent. Rheological properties and flow characteristics of polymer fluid systems; non-Newtonian viscosity, viscoelasticity.
- 422 POLYMER PROCESSING 3 Credits Prerequisites: 321 and 4600:315 or equivalent. Polymer processing technology. Basic studies of flow in extrusion, molding, and other processing methods
- 425/525 INTRODUCTION TO BLENDING AND COMPOUNDING OF POLYMERS 3 credits Prerequisites: 4200:321 or 4600:310 or permission. Nature of polymer blends and compounds and their applications. Preparation and technology using batch and continuous mixers, mixing mechanisms.
- 427/527 MOLD DESIGN 3 credits Prerequisites: 4200:321 or 4600:310 or permission. Molding methods to manufacture polymeric products. Machinery, materials, molds, equipment, computer-aided design.
- 450/550 ENGINEERING PROPERTIES OF POLYMERS 3 credits Prerequisites: 4600:336 or permission. Introduction to engineering properties and polymer processing. Analyzing mechanical polymer tests in glassy, rubbery, and fluid states. Product design, rheology, rheometry and polymer processing concepts.
- 451/551 POLYMER ENGINEERING LABORATORY 2 Credits Prerequisite: 4200: 321. Corequisite: 422. Laboratory experiments on the rheological characterization of polymer melts, fabrication of engineering products, structural investigation of polymeric
- 497 SPECIAL TOPICS IN POLYMER ENGINEERING 2 credits Prerequisite: Senior standing, permission of instructor. Special topics intended for undergraduate seniors in polymer engineering

POLYMER ENGINEERING PROJECT 499 1-3 credits Prerequisite: permission. Individual research project pertinent to polymer engineering under faculty supervision.

POLYMER SCIENCE

9871:

- 130 POLYMER MATERIAL SCIENCE 3 credits A polymer science lecture (with demonstrations) for non-science majors, with optional accompanying one-credit laboratory (9871:131).
- 131 POLYMER MATERIAL SCIENCE LABORATORY 1 credit
 - Co-requisite: 130. A polymer science laboratory course which illustrates topics covered in 9871:130 Polymer Material Science.
- 303 SPECIAL PROJECTS IN POLYMER SCIENCE 1-2 credits Prerequisite: 302. Research projects of a limited scope for student desiring experience with a professor working in a specific field. The course would be designed to give the student the processes involved in outlining projects, setting up equipment, collecting and recording research data in a scientific manner
- 401/501 INTRODUCTION TO ELASTOMERS 3 credits Prerequisites: physical chemistry (or equivalent) or permission. An introduction to the science and technology of elastomeric materials. Lecture and laboratory.
- 402/502 INTRODUCTION TO PLASTICS 3 credits
- Prerequisite: physical chemistry (or equivalent) or permission. An introduction to the science and technology of plastic materials. Lecture and laboratory.

407/507 POLYMER SCIENCE

- 4 credits Prerequisite: 3150:314 or 3650:301 or permission. Principles of polymerization processes and relationships between molecular structures and physical behavior of polymers. Molecular weight distributions of macromolecules discussed and methods of determining molecular weights utilized.
- 411/511 MOLECULAR STRUCTURE AND PHYSICAL 3 credits **PROPERTIES OF POLYMERS I**
 - Prerequisite: 301 or 302 or permission. Interdisciplinary of course involving the principles of chemistry and physics are brought to bear on relationships between molecular structure and chemical composition of macromolecules and their physical properties.
- 412/512 MOLECULAR STRUCTURE AND PHYSICAL 2 credits PROPERTIES OF POLYMERS #

2 credits

- Prerequisite: 411/511 or permission. Mechanical characterization of polymeric materials, the Boltzmann superposition principle and fracture. Experimental techniques involving stress-strain behavior, stress relaxation, creep, forced and free vibrations discussed.
- 411/511 MOLECULAR STRUCTURE AND PHYSICAL PROPERTIES OF POLYMERS H
 - Prerequisite: 412/512 or permission. Deformation of bounded rubber units, the correspondence principle, time-dependent failure, mechnical properties of polymeric foams and design considerations discussed.
- 414 SEMINAR IN POLYMER SCIENCE 1-2 credits New and unsolved problems of polymer science discussed from interdisciplinary view of material sciences. A student prepares one or more formal technical presentations related to chemical aspects of field.
- 490/590 WORKSHOP IN POLYMER SCIENCE 1-3 credits (May be repeated with permission) Group studies on selected topics involving polymers. May not be used to meet undergraduate or graduate major requirements in polymer science. May be used for elective credit only
- 499 RESEARCH PROBLEMS IN POLYMER SCIENCE 1-3 credits Prerequisite: permission. Faculty-supervised undergraduate research problems in polymer science, culminating in a written report.



Directory

Board of Trustees

May 2001

DR. MARK N. APTE, 33 North Avenue, Suite 103, Talimadge, Ohio 44278 (Term expires 2003)
 DR. WILLIAM F. DEMAS, Akron City Hospital, 525 E. Market St., Akron, Ohio 44304 (Term expires 2008)

DR. DONALD E. DEMKEE, 1450 Christmas Run Blvd., Wooster, Ohio 44691 (Term expires 2005) DR. JOHN FINK, 75 Arch Street, Suite 407, Akron, Ohio 44304 (Term expires 2006)

MRS. DIANE C. FISHER, The University of Akron, Board of Trustees Office, Akron, OH 44325-4705 (Term expires 2009)

MRS. PATRICIA L GRAVES, 525 St. Andrews Drive, Akron, Ohio 44303-1227 (Term expires 2004) MR. JOHN V. HEIDER, 2440 Stockbridge Road, Akron, OH 44313 (Term expires 2007)

MR. DAVID E. (GENE) WADDELL, 707 Society Building, 159 South Main Street, Akron, Ohio 44308 (Term expires 2002) serves as Vice Chairman

Student Trustees

MS. MEGHAN K. MARKOVICH, The University of Akron, Board of Trustees Office, Akron, Ohio 44325-4705 (Term expires 2002)

Officers of the Board

MR. TED A. MALLO, Secretary of the Board of Trustees, The University of Akron, Akron, Ohio 44325-4706.

MR. RUSSELL D. SIBERT, Assistant Secretary of the Board of Trustees, The University of Akron, Akron, Ohio 44325-4705.

President and Vice Presidents

September 2001

LUIS M. PROENZA, President of the University, Ph.D.

TEODORE CURTIS, Vice President for Capital Planning and Facilities Management, B.S.

THOMAS GAYLORD, Vice President for Information and Instructional Technologies, Libraries & Institutional Planning (CIO), Ph.D.

TERRY L HICKEY, Senior Vice President and Provost, Ph.D.

JOHN A. LaGUARDIA, Vice President for Public Affairs and Development, M.A.

TED A. MALLO, Vice President and General Counsel, J.D.

HENRY NETTLING, Vice President for Business and Finance, B.S.B.A.

GEORGE NEWKOME, Vice President, Research and Dean Graduate School, Ph.D.

MARLESA A. RONEY, Vice President for Student Affairs, Ph.D.

Deans

Dean of Buchtel College of Arts and Sciences, Olin Hall 101, 972-7880

Dean of the College of Business Administration, College of Business Administration Building, 419, 972-7041

Dean of the Community and Technical College, Polsky Building 215, 972-6578

Dean of Continuing Education and Evening Division, Polsky Building 466, 972-7577

Dean of the College of Education, Zook Hall 218, 972-7680

Dean of the College of Engineering, Auburn Science and Engineering Center, 972-7816

Deen of the College of Fine and Applied Arts, Guzzetta Hall 260, 972-7564

Dean of Graduate School, Polsky Building 469, 972-7664

Dean of the School of Law, McDowell Law Center 136, 972-7331

Dean of University Libraries, Bierce Library 161D, 972-7497

Dean of the College of Nursing, Mary Gladwin Hall 101, 972-7552

Dean of the College of Polymer Science and Polymer Engineering, Goodyear Polymer Center 325, 972-7500

Dean of the University College, Spicer Hall 120, 972-7066

Dean of Wayne College, 1901 Smucker Road Orrville 44667, 1-800-221-8308

Emeritus Faculty

September 2001

- NORMAN P. AUBURN, President Emeritus of the University, Professor Emeritus of Political Science and Consultant (1951) (Ret. as President 1971; Consultant 1971-) B.A., University of Cincinnati, 1927; LL.D. Parsons College, 1945; LL.D., University of Cincinnati, 1952; D.Sc. University of Tulsa, 1957; LL.D. University of Liberia (West Africa), 1959; Litt.D., Washburn University of Topeka, 1961; L.H.D., College of Wooster, 1963; LL.D., The University of Akron, 1971; D.C.L. Union College, 1979.
- D. J. GUZZETTA, President Emeritus; Professor Emeritus of Higher Education (1954-March 1968) (August 1971) (Ret. as President September 1984) (Ret. August 1985) B.A., Ed.M., Ed.D., University of Buffelo, 1953; LL.D., The University of Akron, 1968; D.S.S.c., Marian College, 1971; LL.D., Kent State University, 1971; L.H.D., Walsh College; LL.D., Bellevue College, 1978.
- IRVING A. ACHORN, Professor Emeritus of Art (1965) (Ret. December 1983) B.S., M.A., Kent State University, 1956.
- ALEXANDER L. ADAMS, Assistant Professor Emeritus of Physical Education (1970) (Ret. December 1989) B.S.Ed., M.S.Ed., The University of Akron, 1970.
- RONNIE G. ADAMS, Professor Emeritus of Surveying and Construction Technology (1969) (Ret. 1996) B.C.E., Cleveland State University; M.S.C.E., Lehigh University, 1963.
- J. THOMAS ADOLPH, Professor Emeritus of Physical Education (1969) (Ret. 1995) B.A., The University of Akron; M.Ed., Ohio University; Ph.D., The Ohio State University, 1969.
- STANLEY AKERS, Assistant Professor Emeritus of Bibliography (1967) (Ret. December 1997) B.S., M.A., The University of Akron; Ph.D., Kent State University, 1989.
- CAROLYN A. ALBANESE, Associate Professor Emeritus of Home Economics and Family Ecology (1978) (Ret. May 1998) B.S., Southern Illinois University at Carbondale; M.S., The Ohio State University, 1969.
- DORIS S. ALDRICH, Associate Professor Emeritus of Home Economics (1973) (Ret. December 1988) B.S., M.Ed., Kent State University, 1972.
- RICHARD W. ALFORD, Associate Professor Emeritus of Hospitality Management (1983) (Ret. June 2000) A.D., B.S., M.S., The University of Akron, 1987.
- VIRGINIA L. ALLANSON, Associate Professor Emeritus of Bibliography (1968) (Ret. 1984) B.S., Purdue University; M.L.S., Kent State University, 1966.
- ABDUL AMER ALRUBATY, Professor Emeritus of Education (1972) (Ret. 1994) B.S., M.A., E.D.S., Eastern Michigan University; Ph.D., Kent State University, 1972.
- VINCENT A. ALTIER, Assistant to the Dean Emeritus of the College of Polymer Science and Polymer Engineering (January 1983) (Ret. 1996) A.B., Youngstown State University; M.S., The University of Akron, 1954.
- BARBARA S. ANANDAM, Assistant Professor Emeritus for Nursing (March 1973) (Ret. 1993) B.S., M.S., Boston University; Ed.S., Kansas State Teachers College, 1971.
- WALTER E. ARMS, Associate Professor Emeritus of Education (1968) (Ret. July 1989) B.S., Northwest Missouri State College; M.Ed., University of South Dakota; Ed.D., Indiana University at Bloomington, 1968.
- BARBARA N. ARMSTRONG, Professor Emeritus of Home Economics (1972) (Ret. December 1989) B.S., M.S., West Virginia University; Ph.D., The Ohio State University, 1970.
- BRUCE R. ARMSTRONG, Professor Emeritus of Art (1971) (Ret. 1994) B.F.A., California Institute of the Arts; M.F.A., Washington State University, 1968.
- WILLIAM J. ARN, Professor Emeritus of Education (1967) (Ret. December 1983) B.S.Ed., Ohio Northern University; M.S.Ed., Bowling Green State University; Ph.D., Kent State University, 1967.
- HELEN MAE ARNETT, Associate Professor Emeritus of Bibliography (1953) (Ret. 1972) B.A., The University of Akron; B.S.L.S., Case Western Reserve University; M.A., San Jose State College (California); Ph.D., Case Western Reserve University, 1965.
- R. DIANE ARNOLD, Associate Professor Emeritus of Physical and Health Education (Wayne College) (1972) (Ret. May 1998) B.S., University of Maryland at College Park; M.A., The Ohio State University; M.S., The University of Akron, 1991.
- GLENN A. ATWOOD, Associate Dean Emeritus of the College of Engineering; Professor Emeritus of Chemical Engineering (1965) (Ret. December 1989) B.S., M.S., Iowa State University; Ph.D., University of Washington, 1963.
- MARY ELLEN ATWOOD, Professor Emeritus of Education (1969) (Ret. 1994) B.S., Iowa State University; M.S., Ph.D., The University of Akron, 1983.
- GERTRUDE BADGER, Associate Professor Emeritus of Education (1965) (Ret. 1977) B.S.Ed., B.A., The Ohio State University; M.Ed., Kent State University, 1960.
- ROGER J. BAIN, Professor Emeritus of Geology (1970) (Ret. July 2000) B.S., M.S., University of Wisconsin; Ph.D., Brigham Young University, 1968.
- J. WAYNE BAKER, Professor Emeritus of History (1968) (Ret. July 2000) B.A., Western Baptist College; B.D., Talbot Theological Seminary; B.A., Pepperdine University; M.A., Ph.D., University of Iowa, 1970.
- FRANK V. BALDO, Professor Emeritus of Marketing (1969) (Ret. 1979) B.B.A., Fenn College; M.B.A., Case Western Reserve University; Ph.D., Pennsylvania State University, 1968.
- GEORGE W. BALL, Executive Director Emeritus of University Relations and Development (1957) (Ret. August 1987) B.A., Mount Union College, 1943.
- ARPAD FREDERIC BANDA, Professor Emeritus of Finance (1968) (Ret. December 1988) B.S., City College of New York; M.B.A., Ph.D., New York University, 1964.
- JAMES P. BANKS, Director Emeritus of Development (May 1974) (Ret. January 1987) B.S., Ohio University, 1950.
- H. KENNETH BARKER, Dean Emeritus of the College of Education; Professor Emeritus of Education (1966) (Ret. December 1987) B.A., M.A., University of Louisville; Ph.D., University of Michigan, 1959.
- DAVID BARR, Associate Professor Emeritus of Education (July 1974) (Ret. 1993) B.S., M.A., Kent State University, 1966.

- GERALD V. BARRETT, Professor Emeritus of Psychology; Senior Fellow, Institute for Life-Span Development and Gerontology (1973) (Ret. June 2000) B.A., Wittenberg University; M.S., Ph.D., Case Western Reserve University; J.D., The University of Akron, 1985.
- MARIAN L. BAUER, Associate Professor Emeritus of Nursing (1969) (Ret. 1982) B.A., Maryville College; M.N., Western Reserve University, 1941.

JOAN BAUMGARDNER, Assistant Professor Emeritus of Nursing (1979) (Ret. 1998) B.S., M.S., The Ohio State University; Ph.D., The University of Akron, 1988.

DONALD E. BECKER, Associate Professor Emeritus of Management (1959) (Ret. 1988) B.A., M.A., Oberlin College, 1948.

WILLIAM C. BECKER, Professor Emeritus, School of Law (1985) (Ret. 1994) A.B., Harvard University; J.D., University of Michigan, 1956.

HAROLD BELOFSKY, Associate Professor Emeritus of Mechanical Technology (1987) (Ret. 1996) B.S.M.E., Cooper Union; M.M.E., New York University, 1952.

- JUTTA T. BENDREMER, Assistant Professor Emeritus of English; Fellow, Institute for Life-Span Development and Gerontology (1967) (Ret. June 1998) B.A., Hunter College; M.A., Brooklyn College, 1951.
- EUGENE M. BENEDICT, Assistant Professor Emeritus in the Community and Technical College (January 1969) (Ret. 1982) M.Div., Boston University School of Theology; B.A.Ed., M.A., The University of Akron, 1964.
- MICHAEL S. BENNETT, Associate Professor Emeritus of Social Science (1976) (Ret. 1996), B.S., M.S., Ph.D., The Ohio State University, 1976.
- DONALD K. BEROUIST, Associate Professor Emeritus of Accounting (1968) (Ret. December 1988) B.S. B.A., Youngstown State University; M.Acct., The Ohio State University, 1964.
- VIRGINA M. BERRINGER, Assistant Professor Emeritus of Bibliography; Cataloger (1973) (Ret. 2000) B.A., The University of Akron; M.L.S., Kent State University, 1982.
- ROBERT C. BERRY, Director of Placement Emeritus (1946) (Ret. 1976) B.S.B.A., The University of Akron, 1942.
- CARL A. BERSANI, Professor Emeritus of Sociology (1965) (Ret. July 1993) B.A., Eastern Michigan University; M.A., University of Michigan at Ann Arbor; Ph.D., Iowa State University, 1965.
- WILLIAM H. BEYER, Professor Emeritus of Mathematical Science (1961) (Ret. 1998) B.S., The University of Akron; M.S., Ph.D., Virginia Polytechnic Institute and State University, 1961.
- VINCENT J. BIONDO, Assistant Professor Emeritus of Education (1968) (Ret. 1976) B.A., M.A., M.A.Ed., The University of Akron, 1957.
- RALPH O. BLACKWOOD, Professor Emeritus of Education (1967) (Ret. 1993) B.A., Muskingum College; M.A., Ph.D., The Ohio State University, 1962.
- C. ROBERT BLANKENSHIP, Instructor Emeritus in Education (1952) (1956) (Ret. 1982) B.S.B.A., The University of Akron; M.S.Ed., Indiana University, 1963.
- BORIS BLICK, Associate Professor Emeritus of History (1964) (Ret. August 1989) B.A., Brooklyn College; M.A., Ph.D., University of Wisconsin at Madison, 1958.
- JOHN A. BLOUGH, Professor Emeritus of Education (1979) (Ret. August 1986) B.A., College of Wooster, Ph.D., The Ohio State University, 1971.
- GERALD J. BLUMENFELD, Professor Emeritus of Education (1970) (Ret. 1994) B.A., Harris Teachers College; M.A., Ed.D., Washington University (St. Louis), 1966.
- ONADEL J. BLY, Assistant Professor Emeritus of Bibliography (April 1974) (Ret. April 1998) B.A., Mount Union College; M.L.S., Kent State University, 1991.
- MARTHA A. BOOTH, Associate University Registrar Emeritus (1974) (Ret. July 2000) B.S., M.S., The University of Akron, 1979.
- DONALD L BOWLES, Vice President for Administrative Services Emeritus (February 1959) (Ret. December 1989) B.S.I.M., B.A.Ed., The University of Akron, 1959.
- LARRY G. BRADLEY, Professor Emeritus of Education; (1969) (Ret. July 2000) B.A., Muskingum College; M.A., West Virginia University; Ph.D., Ohio University, 1969.
- FRANK V. BRADSHAW, Professor Emeritus of Music (1968) (Ret. December 1988) B.A., M.A., Bob Jones University, 1950.
- MARKO BRDAR, Associate Professor Emeritus of Chemical Engineering (1967) (Ret. 1982) B.A., M.A., Case Western Reserve University, 1954.
- MERLIN G. BRINER, Professor Emeritus of Law (1970) (Ret. 1996) B.S.B.A., Wichita State University; J.D., The University of Akron, 1966.
- DAVID R. BRINK, Professor Emeritus of Bibliography; Business Bibliographer (December 1976) (Ret. July 2000) B.A., Wabash College; B.D., University of Chicago; M.A., University of Minnesota; M.B.A., The University of Akron, 1983.
- THOMAS O. BROWN, Director Emeritus of Counseling and Testing Center (July 1964) (Ret. December 1993) B.S., M.Ed., Mississippi State University; Ph.D., Kent State University, 1968.
- KETTH L BRYANT JR., Professor Emeritus of History (August 1988) (Ret. June 2000) B.S., M.Ed., University of Oklahoma; Ph.D., University of Missouri, 1965.
- DAVID C. BUCHTHAL, Professor Emeritus of Mathematical Sciences (1971) (Ret. July 2000) B.S., Loyola University; M.S., Ph.D., Purdue University, 1971.
- DAN L. BUIE, Instructor Emeritus of Education (July 1968) (Ret. June 1998) B.S., M.S., The University of Akron, 1968.
- ARTHUR E. BURFORD, Professor Emeritus of Geology (1968) (Ret. December 1989) B.A., Cornell University; M.S., University of Tulsa; Ph.D., University of Michigan, 1960.
- JERRY J. BURR, Professor Emeritus of Dance (1975) (Ret. 1996) Cleveland College; studied with Robert Joffrey of New York, Dudley De Vos of London, Michele de Lutky and William Millie of Munich.
- DONALD R. BURROWBRIDGE, Professor Emeritus of Coordination (July 1965) (Ret. 1986) B.S., University of Wisconsin; M.S., Virginia Polytechnic Institute, 1965.
- JUNE R. K. BURTON, Associate Professor Emeritus of History (1971) (Ret. 1994) A.B., M.A., Stetson University; Ph.D., University of Georgia, 1971.
- TERRY F. BUSS, Professor Emeritus of Public Administration and Urban Studies (1987) (Ret. 1997) B.A., M.A., Ph.D., The Ohio State University, 1976.
- ALBERT C. BUXTON, Associate Professor Emeritus of Electronic Technology (January 1975) (Ret. 1986) B.S.E.E., M.S.E.E., Tulane University, 1951.
- DENNIS M. BYRNE, Professor Emeritus of Economics; Department Chair, Economics (1975) (Ret. July 2000) B.S., Villanova University; M.A., Ph.D., University of Notre Dame, 1975.
- ALLEN MANUEL CABRAL, Associate Professor Emeritus of Accounting (1972) (Ret. 1996) B.S.B.A., American International College; M.S., Kent State University; J.D., The University of Akron; L.L.M., Cleveland State University, 1985.
- FELICITAS CALDERON, Assistant Director Emeritus of International Programs-Special Programs (July 1980) (Ret. 1994) B.A., The University of Akron, 1979.

- DOUGLAS E. CAMERON, Professor Emeritus of Mathematical Sciences (1969) (Ret. June 1998) B.A., Miami University; M.S., The University of Akron; Ph.D., Virginia Polytechnic Institute and State University, 1970.
- GERALD R. CAMP, Associate Professor Emeritus of Computer Programming Technology (March 1969) (Ret. 1993) B.A., Case Western Reserve University; M.S., J.D., The University of Akron, 1980.
- THOMAS A. CAMPBELL, Track Coach Emeritus (August 1968) (Ret. 1995) B.S.Ed., M.S.Ed., The University of Akron, 1970.
- MARY CAPOTOSTO, Assistant Professor Ementus of Communicative Disorders (1968) (Ret. 1983) B.A., The University of Akron; M.A., DePaul University, 1967.
- NATHAN F. CARDARELLI, Professor Emeritus of General Technology (1968) (Ret. June 1992) B.S., B.A., M.S., M.A., M.S., The University of Akron, 1988.
- MARILYN JEAN CARRELL, Senior Associate Director Emeritus of the Career Center (October 1972) (Ret. 1993) B.S., M.S.Ed., The University of Akron, 1972.
- CAESAR A. CARRINO, Dean Emeritus of the Evening College and Summer Sessions; Professor Emeritus of Education (1967) (Ret. June 1989) B.S.Ed., Baldwin-Wallace College; M.S.Ed., The University of Akron; Ph.D., Case Western Reserve University, 1965.
- ROBERT C. CARSON, Associate Professor Emeritus of Mathematical Sciences (July 1963) (Ret. 1989) B.S., M.S., Purdue University; Ph.D., University of Wisconsin at Madison, 1953.
- CAROL A. CARTER, Academic Adviser Emeritus (January 1987) (Ret. December 1995) B.S.Ed., Otterbein College; M.S.Ed., The University of Akron, 1984.
- CHARLES H. CARTER, Professor Emeritus of Geology (1982) (Ret. July 2000) B.S., Portland State University, M.S., San Jose State University; Ph.D., Johns Hopkins University, 1972.
- DANA F. CASTLE, Professor Emeritus of Law; (March 1974) (Ret. June 2000) B.S., Cornell University; J.D., The University of Akron, 1973.
- TOMASITA M. CHANDLER, Professor Emeritus of Family and Consumer Sciences (1971) (Ret. June 2000) B.A., New Mexico Highlands University; M.S., Ph.D., Texas Women's University, 1970.
- TSE-YUNG CHANG, Professor Emeritus of Civil Engineering (1970) (Ret. August 1993) B.S.C.E., National Taiwan University; M.S., Ph.D., University of California-Berkeley, 1966.
- CHIOU S. CHEN, Professor Emeritus of Electrical Engineering (1968) (Ret. June 1998) B.S.E.E., National Taiwan University; M.S.E.E., Ph.D., University of Rochester, 1967; P.E., Ohio.
- CHUN FU CHEN, Professor Emeritus of Electrical Engineering (February 1968) (Ret. 1994) B.S., National Taiwan University; M.S., University of Tennessee at Knoxville; Ph.D., Vanderbilt University, 1968.
- MARY ELIZABETH CHESROWN, Member of the General Faculty Emeritus (June 1965) (Ret. January 1986) B.A., The University of Akron, 1949.
- YONG H. CHO, Professor Emeritus of Urban Studies (1967) (Ret. August 1989) B.A., Seoul National University (Koree); M.P.A., Ph.D., Syracuse University, 1965.
- CRAIG M. CHRISTENSEN, Instructor Emeritus in Marketing (1991) (Ret. July 1997) B.S., University of Illinois; Ph.D., Cornell University, 1961.
- ALICE E. CHRISTIE, Associate Professor Emeritus of Education (1980) (Ret. May 1998) B.A., Ursuline College; M.A., The University of Akron; Ph.D., Kent State University, 1982.
- HARRY T. CHU, Professor Emenuts of Physics; Professor Emenuts of Chemistry (1969) (Ret. June 2000) B.S., Chikung University; M.A., Ph.D., State University of New York at Stony Brook, 1969.
- MAMERTO L. CHU JR., Professor Emeritus of Mechanical Engineering (1968) (Ret.May 1998) B.S.M.E., Iloilo City University (Philippines); M.S.M.E., Ph.D., University of Houston, 1967; P.E., Ohio.
- BARBARA L CLARK, Assistant Professor Emeritus of Bibliography (October 1957) (Ret. December 1986) B.A., The University of Akron; M.L.S., Kent State University, 1982.
- EDWARD N. CLARKE, Assistant Director Emeritus of the College of Business Administration Undergraduate Programs (1974) (Ret. July 2000) B.S.Ed., Kent State University; M.S.Ed., The University of Akron, 1966.
- BLANCHE CLEGG, Associate Professor Emeritus of Education (1973) (Ret. 1994) B.S.Ed., Wayne State University; M.Ed., C.A.G.S., University of Massachusetts at Amherst; Ph.D., University of Washington, 1971.
- BARBARA E. CLEMENTS, Professor Emeritus of History (1971) (Ret. July 2000) B.A., University of Richmond; M.A, Ph.D., Duke University, 1971.
- HELEN CLEMINSHAW, Professor Emeritus of Family and Consumer Sciences (1977) (Ret. June 1997) B.S., Rutgers; M.A., Ph.D., Kent State University, 1977.
- RUTH W. CLINEFELTER, Professor Emeriuts of Bibliography; (June 1952) (Ret. 2000) B.A., M.A., The University of Akron; M.A.L.S., Kent State University, 1956.
- LLOYD L CLOSE, Associate Professor Emeritus of Transportation (1979) (Ret. 1994) B.S., Kent State University; M.S.Tech.Ed., The University of Akron, 1983.
- JOHN R. COCHRAN, Professor Emeritus of Education (1969) (Ret. August 1989) B.S., M.A., Ph.D., The Ohio State University, 1968.
- JOHN R. COLE, Associate Professor Emeritus of Office Administration (1976) (Ret. 1996) B.S., M.A., University of Pittsburgh; Ph.D., Kent State University, 1976.
- JO ANN H. COLLIER, Associate Professor Emeritus of Nursing (1974) (Ret. July 1997) B.S., Loretto Heights College; M.S., University of Colorado; Ph.D., The University of Akron, 1987; R.N.
- ROBERT E. COLLINS, Associate Professor Emeritus of Office Administration (1964) (Ret. December 1988) B.A., Glenville State Teachers College (W.Va.); M.A., West Virginia University, 1952.
- W. HENRY CONE, Associate Professor Emeritus of Education (1971) (Ret. December 1989) B.A.E., B.S.A., M.Ed., University of Florida; D.Ed., Harvard Graduate School of Education, 1962.
- DALE E. COONS, Professor Emeritus of Education (1973) (Ret. December 1995) B.S.Ed., Butler University; M.S.Ed., Ph.D., Indiana University at Bloomington, 1970.
- ROBERT G. CORBETT, Professor Emeritus of Geology (1969) (Ret. August 1989) B.S., M.S., Ph.D., University of Michigan at Ann Arbor, 1964.
- FRANK J. COSTA, Professor Emeritus of Geography and Planning; Professor Emeritus of Urban Studies (1972) (Ret. June 1998) B.A., Kent State University; M.S., Case Western Reserve University; Ph.D., University of Wisconsin at Madison, 1974.
- WALDEN B. CRABTREE, SR., Professor Emeritus of Education (1968) (Ret. 1994) B.A., St. Meinrad College (Indiana); M.S.Ed., Ph.D., Indiana University at Bloomington, 1968.
- JAMES L CRESS, Associate Professor Emeritus of Accounting (1973) (Ret. 1996) B.S.B.A., M.B.A., Bowling Green State University; D.B.A., Kent State University, 1979.
- CLARE A. CRITZER, Emeritus Assistant to the Assistant Dean of Student Affairs, College of Nursing (June 1983) (Ret. 1995) B.S.N., M.S.N., Catholic University of America, 1960.
- GEORGE DANHIRES, Associate Professor Emreritus of Art (January 1983) (Ret. May 1998) B.F.A., M.F.A., Ohio University, 1974.

- STEPHEN DARLING, Professor Emeritus of Chemistry (1970) (Ret. 1996) B.S., University of Wisconsin at Madison; M.A., Ph.D., Columbia University, 1959.
- RALPH FRANK DARR JR. Professor Emeritus of Education (1968) (Ret. 1996) B.S.Ed. Southeast Missouri College; M.A.Ed., Washington University; Ph.D., Southern Illinois University at Carbondale, 1967.
- PATRICK A. DARRAH, Academic Advisor Emeritus (August 1976) (Ret. 2000) A.A.S., B.S., M.S., The University of Akron, 1976.
- GEORGE D. DAVIS, Professor Emeritus of Communicative Disorders (1974) (Ret. December 1988) B.S.Ed., Kent State University; M.A., Ph.D., The Ohio State University, 1968
- JAMES L. DENNISON, Assistant Professor Emeritus of Physical Education (July 1965) (Ret. July 1993) B.A., College of Wooster; M.A.Ed., The University of Akron, 1968.
- HAMILTON DESAUSSURE, Professor Emeritus of Law (1970) (Ret. 1992) B.A., Yale University; L.L.B., Harvard University; L.L.M., McGill Institute of International Air Law, 1953.
- IRWIN DEUTSCHER, Professor Emeritus of Sociology (1975) (Ret. December 1983) B.A., M.S., M.A., Ph.D., University of Missouri, 1959.
- LILLIAN J. DeYOUNG, Dean Emeritus of the College of Nursing; Professor Emeritus of Nursing (July 1975) (Ret. December 1988) B.S., M.S., Ph.D., University of Utah, 1975.
- ROBERT L DIAL, Associate Professor Emeritus of English (1965) (Ret. July 2000) B.S., Central Missouri State College; M.A., Ph.D., University of Missouri at Kansas City, 1963.
- RICHARD J. DIRIENZO, Professor Emeritus of Surveying and Construction Technology (1981) (Ret. July 1997) B.S.C.E., Youngstown State University; M.S., University of Missouri, 1968
- DOROTHY M. DOBRINDT, Associate Professor Emeritus of Nursing (1969) (Ret. July 1997) B.S., St. Louis University; M.Ed., Columbia University, 1965; R.N.
- HELMAR H. A. DOLLWET, Professor Emeritus of Biology (January 1970) (Ret. 1993) B.S., University of Michigan at Ann Arbor; M.S., Technische Hochschule, Munich; M.S., Ph.D., University of California at Riverside, 1969.
- JOHN L DONALDSON, Associate Professor Emeritus of Computer Science (January 1983) (Ret. June 2000) B.S., Case Western Reserve University; M.S., Ph.D., M.S., The Ohio State University, 1977.
- CLARENCE B. DRENNON, Associate Professor Emeritus of Civil Engineering (1975) (Ret. 1996) B.S., Colorado School of Mines; M.E., Texas A&M; Ph.D., Iowa State University, 1972.
- MILAN F. DUBRAVCIC, Professor Emeritus of Chemical Technology (January 1968) (Ret. December 1986) Ingenieur of Chemistry, University of Zagreb; Ph.D., University of Massachusetts, 1968
- R. WAYNE DUFF, Vice President Emeritus of Business and Finance (May 1963) (Ret. June 1989) B.A., Oberlin College; LL.B., Cleveland-Marshall Law School, 1951.
- MARY F. DUGAN, Assistant Professor Emeritus of Nursing (1986) (Ret. 1993) B.S., M.S., City University of New York, Hunter College, 1962; R.N.
- PAUL H. DUNHAM, Associate Professor Emeritus of Manufacturing Technology (1972) (Ret. 1986) B.A., Case Western Reserve University; M.B.A., Ph.D., Kent State University, 1980.
- JAMES W. DUNLAP, Dean Emeritus of the College of Business Administration; Professor Emeritus of Finance (1963) (Ret. December 1989) B.B.A., Memphis State University; M.B.A., Ph.D., University of Arkansas, 1963.
- LYLE DYE JR., Professor Emeritus of Theatre Arts; Professor Emeritus of Music (1981) (Ret. 1996) B.F.A., Drake University; M.F.A., Yale University, 1958.
- CHARLES MYRON DYE, Professor Emeritus of Education (1972) (Ret. July 2000) B.A., Harris Teachers College; M.A., Ph.D., Washington University, 1971.
- JOSEPH A. EDMINISTER, Professor Emeritus of Electrical Engineering (May 1957) (Ret. December 1983) B.E.E., M.S.E., J.D., The University of Akron, 1974.
- SANDRA B. EDWARDS, Coordinator Emeritus of the Adult Resource Center (October 1977) (Ret. 1996) B.A., M.A., The University of Akron, 1968.
- EARL L ERTMAN, Professor Emeritus of Art (1967) (Ret. January 1998) B.S., University of Southern Mississippi; M.A., Case Western Reserve University, 1967.
- BERNARD L. ESPORITE, Professor Emeritus of Education (1970) (Ret. 1995) B.S.Ed., M.Ed. Ph.D., Miami University, 1971.
- CHARLOTTE L ESSNER, Associate Professor Emeritus of Communicative Disorders (1965) (Ret. 1982) B.A., Hunter College; M.A., The University of Akron, 1964.
- STEPHEN A. FARIA JR., Instructor Emeritus in Modern Languages (1967) (Ret. 1994) B.A., Harvard University; M.A., Cornell University, 1965.
- MICHAEL F. FARONA, Professor Emeritus of Chemistry (1964) (Ret. July 1990) B.S., Case Western Reserve University; M.S., Ph.D., The Ohio State University, 1964.
- LEONA W. FARRIS, Director Emeritus of the Community Involvement Component of Home Economics (1969) (Ret. 1988) B.S., The Ohio University; M.A., Kent State University, 1970.
- RICHARD M. FAWCETT, Associate Professor Emeritus in the Community and Technical College (1969) (Ret. 1989) B.A., M.Ed., Kent State University, 1959.
- JAMES V. FEE, Professor Emeritus of Communication (1967) (Ret. December 1989) B.S.Ed., M.S.Ed., Southern Illinois University at Carbondale; Ph.D., The Ohio State University, 1964
- ROBERT E. FERGUSON, Professor Emeritus of Education (1965) (Ret. December 1983) B.S., M.A., Kent State University; Ed.D., Case Western Reserve University, 1965.
- DEMETER G. FERTIS, Professor Emeritus of Civil Engineering (1966) (Ret. 1996) B.S., M.S., Michigan State University; Ph.D., Eng., National Technical University (Athens, Greece), 1964.
- PHYLLIS A. FITZGERALD, Assistant Dean Emeritus of Student Affairs; Associate Professor Emeritus of Nursing (1982) (Ret. 1997) B.S.N., Saint Louis University; M.S.N., New York University; Ph.D., University of Arizona, 1982.
- ALICE M. FLAKSMAN, Associate Professor Emeritus of Music (1965) (Ret. 1978) B.A., Hunter College; M.A., Columbia University, Teachers College; Ph.D., The University of Akron, 1972.
- VIRGINIA J. FLEMING, Professor Ementus of Family and Consumer Sciences (1969) (Ret. July 2000) B.S., Indiana University of Pennsylvania; M.Ed., Pennsylvania State University; Ph.D., Kent State University, 1983.
- WILLIAM S. FLEMING. Professor Emeritus in the Community and Technical College (1966) (Ret. 1991) B.Sc.Ed., Rutgers University; M.A., University of Pennsylvania; Ph.D., Kent State University, 1970
- VAUGHN W. FLOUTZ, Professor Emeritus of Chemistry (1941) (Ret. 1970) B.A., Olivet College; M.A., Ph.D., University of Colorado, 1932.
- DOROTHY A. FRANCY, Certification Coordinator Emeritus (1979) (Ret. 1988) B.S., M.S., The University of Akron, 1973.

- RICHARD K. FRANKLIN, Associate Professor Emeritus of Political Science (1970) (Ret. July 2000) B.A., Bryan College; M.A., Michigan State University; Ph.D., University of Kentucky, 1976.
- PAULINE FRANKS, Professor Emeritus of Bibliography (April 1950) (Ret. December 1983) B.S.Ed., Kent State University; B.S.L.S., Case Western Reserve University, 1940.
- BILL J. FRYE. Associate Professor Emeritus of Education (1971) (Ret. 1996) B.S., M.S., Indiana State University; Ph.D., The Ohio State University, 1971.
- DONNA GABOURY, Associate Professor Emeritus of Family and Consumer Sciences (1977) (Ret. July 2000) B.A., College of Saint Catherine; M.A, Smith College; Ph.D., University of Massachusetts, 1973.
- ROBERT E, GAEBEL, Associate Professor Emeritus of Classics; (1970) (Ret. June 2000) B.A., M.A., State University of New York at Buffalo; Ph.D., University of Cincinnati, 1968.
- THOMAS J. GALLAGHER, Director Emeritus of Buildings and Grounds (July 1977) (Ret. 1996) B.A., Saint John's University, 1962.
- ROBERT N. GANDEE, Professor Emeritus of Physical Education (1973) (Ret. 1989) B.S., M.S., The University of Akron: Ph.D., The Ohio State University, 1972.
- THOMAS NEAL GARLAND, Professor Emeritus of Sociology; (1969) (Ret. July 2000) B.A., M.A., University of North Dakota; Ph.D., Case Western Reserve University, 1971.
- ALAN N. GENT, Harold A. Morton Professor Ementus of Polymer Engineering and Physics (April 1961) (Ret. 1994) B.S.C. (General), B.S.C. (Special Physics), Ph.D., University of London, 1955.
- DON R. GERLACH, Professor Emeritus of History (1962) (Ret. 1994) B.S.Ed., M.A., Ph.D., University of Nebraska at Lincoln, 1961.
- THOMAS E. GETZINGER, Assistant to the Vice President for Business and Finance Emeritus (1969) (Ret. December 1989) B.S.B.A., The University of Akron; M.B.A., Kent State University, 1966.
- RICHARD J. GIGLIOTTI, Professor Emeritus of Sociology (1972) (Ret. July 2000) B.A., St. John Fisher College; M.A., Ph.D., Michigan State University, 1972.
- PETER J. GINGO, Associate Professor Emeritus of Mathematical Sciences; Associate Professor Emeritus of Biomedical Engineering (1969) (Ret. 1994) B.S., The University of Akron; M.A., Ph.D., University of California at Los Angeles, 1966.
- WILLIAM M. GLAZIER, Professor Emeritus of Surveying and Construction Technology; Professor Emeritus of Construction Technology (1958) (1967) (Ret. December 1989) B.S.C.E., Michigan Technical University; M.S.C.E., University of Michigan; Ph.D., West Virginia University, 1978.
- THEODORE L. B. GLOECKLER, Professor Emeritus of Education (1972) (Ret. 1996) B.A., Lycoming College; M.A., University of Northern Colorado; Ph.D., University of Michigan at Ann Arbor, 1973.
- PATRICIA P. GODFREY, Associate Professor of Nursing (1969) (Ret. 1986) B.S.N., M.A., Case Western Reserve University; M.S.N., Duquesne University, 1979.
- LAWRENCE G. GOLDEN, Professor Emeritus of Marketing and Sales Technology (1968) (Ret. May 1998) B.S., Case Western Reserve University; M.B.A., University of Pennsylvania, 1968.
- GALE A. GOLEMBESKI, Associate Professor Emeritus of Art (1978) (Ret. May 1998) B.F.A., Cleveland Institute of Art, 1970.
- TOM A. GOOSBY, Director Emeritus of Recreational and Athletic Facilities (July 1970) (Ret. 1996) B.A., Baldwin-Wallace College; M.A.Ed., The University of Akron, 1978.
- RICHARD L. GRANT, Professor Emeritus of Law (1967) (Ret. 1996) B.S., University of Pennsylvania; J.D., Stanford University; L.L.M., Georgetown University, 1967.
- ROGER L. GRANT, Professor Emeritus of History (1970) (Ret. July 1996) B.A., Simpson College; M.A., Ph.D., University of Missouri-Columbia, 1970.
- VELMA RUTH GRAY, Dean Emeritus of the College of Nursing; Professor Emeritus of Nursing (1985) (Ret. 1996) B.S.N., M.S.N., Case Western Reserve University; Ed.D., The University of Akron. 1982.
- HOWARD L. GREENE, Professor Emeritus of Chemical Engineering (1965) (Ret. December 1989) B.Ch.E., M.Ch.E., Ph.D., Cornell University, 1966.
- C. FRANK GRIFFIN, Professor Emeritus of Physics (1967) (Ret. July 2000) B.S., M.S., Texas Technological College; Ph.D., The Ohio State University, 1964.
- FRANK J. GRUCCIO JR., Professor Emeritus of the Community and Technical College (1966) (Ret. 1994) B.A., M.A., The University of Akron, 1967.
- ROBERT S. GRUMBACH, Associate Professor Emeritus of Electrical Engineering (1961) (Ret. 1987) B.S.E.E., Case Western Reserve University; M.S.E.E., West Virginia University, 1951
- BARBARA A. GSELLMAN, Instructor Emeritus in Mechanical Technology (1967) (Ret. 1988) B.M.E., The University of Akron, 1950.
- JOHN F. GWINN, Associate Professor Emeritus of Biology; Fellow, Institute for Life-Span Development and Gerontology (1970) (Ret. June 2000) B.A., Manchester College; M.S., Purdue University; Ph.D., Kent State University, 1972.
- GORDON A. HAGERMAN, Member of the General Faculty Emeritus (July 1941) (Ret. 1981) B.A., The University of Akron, 1941.
- ROBERT D. HAHN, Director Emeritus of Student Financial Aid and Employment (July 1969) (Ret. 1994) B.S.Ed., M.Ed., Kent State University, 1969.
- DONALD E. HALL, Professor Emeritus of Speech Pathology; Fellow, Institute for Life-Span relopment and Gerontology (1974) (Ret. May 1998) B.S.Ed., Indiana University of Pennsylvania; M.Ed., Westminster College; Ph.D., Ohio University, 1971.
- DuWAYNE H. HANSEN, Associate Dean Emeritus of the College of Fine and Applied Arts (July 1987) (Ret. 1996) B.S., University of Wisconsin; M.M., Northwestern University; D.M.E., Indiana University, 1975.
- RICHARD L. HANSFORD, Vice President and Dean Emeritus of Student Services (August 1949) (Ret. December 1985) B.A.Ed., M.A.Ed., The University of Akron, 1954
- CHARLOTTE M. HANTEN, Associate Professor Emeritus of Art (1969) (Ret. 1982) B.A., Earlham College; M.Ed. Pennsylvania State University, 1954.
- EDWARD W. HANTEN, Professor Emeritus of Urban Studies; Professor Emeritus of Geography (1963) (Ret. 1982) B.A., Earlham College; M.A., Ph.D., University of Pittsburgh, 1962.
- PHYLLIS M. HARDENSTEIN, Associate Professor Emeritus of Theatre Arts (1947) (1956) (Ret. 1980) B.A., The University of Akron; M.A., University of Wisconsin, 1951.
- VERN R. HARNAPP, Professor Emeritus of Geography and Planning (1972) (Ret. July 2000) B.S.Ed., Concordia Teachers College; M.S.Ed., University of Pennsylvania; Ph.D., University of Kansas, 1972.
- MARY GRACE HARRINGTON, Associate Professor Emeritus of Bibliography (1960) (Ret. 1976) B.S., The University of Akron; B.A.L.S., University of Michigan, 1939.
- ALAN HART, Professor Emeritus of Philosophy (1970) (Ret. 1994) B.A., M.A., Syracuse University; Ph.D., University of Pennsylvania, 1965.
- RICHARD H, HAUDE, Associate Professor Emeritus of Psychology (1967) (Ret. July 1997) A.B., Kenyon College; M.S., Ph.D., University of Pittsburgh, 1964.

- DAVID N. HAWK, Associate Professor Emeritus of Finance (1980) (Ret. December 1989) B.S., The Ohio State University; M.B.A., D.B.A., Kent State University, 1971.
- JOHN G. HEDRICK, Assistant Professor Emeritus of Associate Studies (July 1967) (Ret. February 1989) B.S.Ed., Kent State University; M.A., University of Notre Dame, 1958.
- RONALD HEINEKING, Associate Vice President Emeritus, Public Safety and Physical Facilities (1975) (Ret. June 1998) A.A.S., B.S., The University of Akron, 1980.
- BARBARA M. HEINZERLING, Professor Emeritus of Family and Consumer Sciences (1973) (Ret. June 2000) B.S., M.S., The Ohio State University; J.D., The University of Akron, 1979.
- FAITH I. HELMICK, Vice President Emeritus of Business and Finance (February 1969) (Ret. 1996) B.A., Kent State University; M.S.T.E., Ph.D., The University of Akron, 1983.
- WILLIAM S. HENDON, Professor Emeritus of Urban Studies; Professor Emeritus of Economics (1968) (Ret. December 1988) B.A., M.A., Ph.D., University of Oklahoma at Norman, 1964.
- PETER N. HENRIKSEN II, Professor Emeritus of Physics; Professor Emeritus of Chemistry (1970) (Ret. June 2000) B.S., Berry College; M.S., Ph.D., University of Georgie, 1968.
- RICHARD L. HENRY, Professor Emeritus of Mechanical Technology (1961) (Ret. December 1989) B.M.E., The Ohio State University; M.S.E., The University of Akron, 1965.
- ALBERTA R. HENSLEY, Director Emeritus of Special Projects (January 1974) (Ret. December 1989) B.S.B.A., Indiana Central College, 1969.
- THOMAS P. HERBERT, Professor Emeritus of Electronic Technology (1968) (Ret. 1993) B.S.E.E., University of Dayton; M.Ed., Pennsylvania State University, 1968.
- JAY R. HERSHEY, Director Emeritus of Residence Halls (July 1967) (Ret. 1996) B.A., Hiram College; M.Ed., University of Illinois at Urbana, 1965.
- HARRIET K. HERSKOWITZ, Professor Emeritus of Home Economics and Family Ecology; Professor Emeritus of Educational Technology (1973) (Ret. 1994) B.S.Ed., Adelphi University; M.A., University of Connecticut, 1972.
- JACK E. HIBBS, Associate Professor Emeritus of Bibliography; Head of Collection Management Department (October 1974) (Ret. 1994) B.A., M.A.L.S., University of Toledo, 1969.
- ROBERT HIGHAM, Professor Emeritus of Criminal Justice Technology; Professor Emeritus of Legal Assisting Technology (1972) (Ret. May 1998) B.A., Kent State University; J.D., The University of Akron, 1969.
- LOUIS A. HILL JR., Dean Emeritus of the College of Engineering; Professor Emeritus of Civil Engineering (July 1981) (Ret. August 1988) B.A., Oklahoma A&M; B.S.C.E., M.S.C.E., Oklahoma State University; Ph.D., Case Institute of Technology, 1965.
- KATHERINE A. HINCKLEY, Associate Professor Emeritus of Political Science; (1972) (Ret. June 2000) B.J., University of Missoun; M.A., Ph.D., Stanford University, 1971.
- ELIZABETH J. HITTLE, Professor Emeritus of Speech (1950) (Ret. December, 1978) B.S.Ed., The University of Akron; M.A., Kent State University; Ed.D., Case Western Reserve University, 1963.
- LOREN L. HOCH, Professor Emeritus of Education (1969) (Ret. July 1997) B.S., Indiana Central College; M.A., Ball State University; Ed.D., Indiana University at Bloomington, 1968.
- KENNETH C. HOEDT, Professor Emeritus of Education (1962) (Ret. 1986) B.S., State University of New York (Buffalo); M.S., Ph.D., University of Wisconsin, 1960.
- BRUCE HOLLAND, Associate Professor Emeritus of English (1967) (Ret. 1996) B.A., University of Rochester, M.A., Ph.D., University of Michigan at Ann Arbor, 1972.
- BRUCE L. HOLLERING, Professor Emeritus of Physical Education (1983) (Ret. 1996) B.S., Ohio Northern University; M.A., Kent State University; Ph.D., The Ohio State University, 1971.
- LORENA M. HOLSHOY, Associate Professor Emeritus of Art (1969) (Ret. 1989) B.F.A., M.A., The Ohio State University, 1965.
- KATHRYN M. HOMEIER, Professor Emeritus of Nursing (February 1967) (Ret. August 1986) B.S.N.E., St. Louis University; M.S.Ed., The University of Akron, 1963; R.N.
- MARTHA HOSFELT, Instructor Emeritus in English (1961) (Ret. 1977) B.A., The University of Akron, 1959.
- RICHARD B. HOSKIN, Associate Professor Emeritus in the Community and Technical College (1967) (Ret. 1981) B.A., Hiram College; M.E., Kent State University, 1955.
- JANICE D. HOUSER, Instructor Emeritus in Modern Languages (1965) (Ret. 1995) B.A., Butler University; M.A., Indiana University at Bloomington, 1964.
- JOHN J. HOUSER, Professor Emeritus of Chemistry (1965) (Ret. July 1995) B.S., Villanova University; Ph.D., Pennsylvania State University, 1964.
- DONALD G. HOWARD, Professor Emeritus of International Business and Marketing (1987) (Ret. May 1998) B.S., M.B.A., Ph.D., The Ohio State University, 1983.
- JACK D. HUGGINS, Associate Professor Emeritus of Business Management Technology (1971) (Ret. 1994) B.A., Saint Francis College; M.B.A., University of Colorado, 1970.
- JULIA A. HULL, Assistant Professor Emeritus of English (1946) (Ret. December 1990) B.A., The University of Akron; M.A., Case Western Reserve University, 1950.
- ROBERTA S. HURLEY, Professor Emeritus of Home Economics and Family Ecology (1987) (Ret. May 1998) B.A., Western College for Women; M.S., Case Western Reserve University; Ph.D., The Ohio State University, 1981.
- CARL L. HUSTON, Instructor Emeritus in English (Wayne) (1972) (Ret. June 1986) B.S., Bowling Green State University, 1951.
- FARLEY K. HUTCHINS, Professor Emeritus of Music (1957) (Ret. 1983) M.B., Lawrence University; S.M.M., S.M.D., Union Theological Seminary, 1951.
- ANNA MARIE HUTH, Member of the General Faculty Emeritus (1979) (Ret. December 1989) B.S.N., The Ohio State University; M.S.N., University of Pittsburgh, 1965.
- JAMES INMAN, Professor Emeritus of Business Law (1966) (Ret. 2000) B.A., Baldwin-Wallace College; M.B.A., The Ohio State University; J.D., The University of Akron; LL.M., Cleveland State University, 1991.
- SYS S. INMAN, Instructor Emeritus in Modern Languages (1968) (Ret. 1994) B.A., Baldwin-Wallace College; M.A., The University of Akron, 1968.
- DALE L. JACKSON, Professor Emeritus of Biology (1961) (Ret. 1993) B.S., Ph.D., University of Durham (England), 1959.
- JIM L JACKSON, Associate Professor Emeritus of Geology (1967) (Ret. December 1993) B.S.Ed., Kent State University; M.S., Case Western Reserve University; Ph.D., The Ohio State University, 1970.
- NANCY L. JACOBS, Assistant Professor Emeritus of Home Economics and Family Ecology (1994) (Ret. July 1997) B.A., Miami University; M.S., Case Western Reserve University; Ph.D., Kent State University, 1984.
- DONALD M. JENKINS, Professor Emeritus of Law (1965) (Ret. 1996) B.A., J.D., The University of Akron; L.L.M., Case Western Reserve University, 1970.

- ALFRED H. JOHNSON, Associate Professor Emeritus of Education (1956) (Ret. 1969) B.S., College of Wooster; M.S., Ph.D., University of Wisconsin, 1956.
- WENDELL A. JOHNSON, Professor Emeritus in the Community and Technical College (1969) (Ret. June 2000) A.A., North Park Junior College; B.S., University of Minnesota; M.Ed., Kent State University; M.S., The University of Akron, 1983.
- MARY JEAN JOHNSTON, Professor Emeritus of Office Administration (1965) (Ret. 1989) B.S., Camegie Institute of Technology; M.Ed., Ph.D., University of Pittsburgh, 1974.
- MIRIAM A. JOLIAT, Assistant Professor Emeritus of Bibliography (April 1970) (Ret. December 1989) B.S.E., St. John College; M.S.L.S., Case Western Reserve University, 1969.
- DAVID L. JONES, Associate Professor Emeritus of English (February 1961) (Ret. 1987) B.A., M.A., Ph.D., Harvard University, 1958.
- ROBERT H. JONES, Professor Emeritus of History (1971) (Ret. December 1989) B.A., M.A., Ph.D., University of Illinois at Urbana, 1957.
- SEBASTIAN V. KANAKKANATT, Professor Emeritus of General Technology (June 1965) (Ret. 1994) B.S., Madras University (India); M.S., Ph.D., The University of Akron, 1969.
- ARTHUR KARLIN, Professor Emeritus of Accounting (1971) (Ret. 1994) B.S., New York University; M.S., Ph.D., University of Illinois at Urbana; J.D., The University of Akron; LL.M., New York University, 1977.
- CHAMAN N. KASHKARI, Associate Professor Emeritus of Electrical Engineering (1969) (Ret. 1994) B.A., Jammu Kashmir University; B.E., Rejasthen University; M.S.E., University of Detroit; Ph.D., University of Michigan at Ann Arbor, 1969.
- DARLENE R. KAUSCH, Associate Professor Emeritus of Accountancy (1979) (Ret. June 1996) B.S., M.S., The University of Akron; D.B.A., Kent State University, 1979.
- JOLITA E. KAVALIUNAS, Professor Emeritus of Modern Languages (1970) (Ret. 1994) B.A., M.A., Ph.D., Case Western Reserve University, 1972.
- ORVILLE R. KEISTER JR., Distinguished Professor Emeritus of Accounting (1966) (Ret. 1995) B.S.B.A., M.B.A., The Ohio State University; Ph.D., University of Illinois, 1964.
- ROGER F. KELLER, Professor Emeritus of Biology; Professor Emeritus in the Community and Technical College (1954) (Ret. 1982) B.S., University of New Hampshire; Ph.D., Michigan State University, 1953.
- MARTIN L KEMP, Business Manager Emeritus of Wayne General and Technical College (July 1972) (Ret. December 1988) B.S.Ed., Ashland College; M.S.Ed., Kent State University, 1970.
- FRANK J. KENDRICK, Associate Professor Emeritus of Urban Studies (1971) (Ret. 1989) B.A., Grinnell College; M.A., Ph.D., University of Chicago, 1962.
- DENNIS L. KIMMELL, Professor Emeritus of Accounting (1976) B.S., University of Wisconsin at Oshkosh; M.S., Southern Illinois University at Carbondale; D.B.A., Kent State University 1974; C.P.A., Missouri, Ohio, Wisconsin.
- JAMES C. KING, Professor Emeritus of Education (1969) (Ret. December 1988) B.A., Mount Union College; M.Ed., Kent State University; Ed.D., Indiana University at Bloomington, 1969.
- MARY KING, Coordinator Emeritus of Basic Writing and the Writing Lab (July 1975) (Ret. May 1998) B.A., M.A., The University of Akron, 1978.
- CHARLES E. KIRKWOOD, Professor Emeritus of Law (1980) (Ret. 1994) B.A., Wheaton College; J.D., Northwestern University, 1965.
- KETTH A. KLAFEHN, Professor Emeritus of Management and Health Care Systems (1970) (Ret. 1996) B.S.I.D., M.S.I.M., Clarkson College of Technology; D.B.A., Kent State University, 1973.
- ROSE A. KLEIDON, Professor Emeritus in the Community and Technical College (1970) (Ret. 1996) B.A., Illinois Wesleyan University; M.A., University of Illinois at Urbana, 1968.
- KENNETH L. KLIKA, Associate Professor Emeritus of Civil Engineering (March 1972) (Ret. June 2000) A.A.S., B.C.T., M.S.T.E. The University of Akron; M.S.C.E., Case Western Reserve University, 1990.
- GEORGE W. KNEPPER, Distinguished Professor Emeritus of History (August 1954) (Ret. 1992) B.A., The University of Akron; M.A., Ph.D., University of Michigan at Ann Arbor, 1954.
- WILLIAM G. KOFRON, Professor Emeritus of Chemistry (1965) (Ret. 1996) B.S., University of Notre Darne; Ph.D., University of Rochester, 1961.
- VINCENT P. KOPY, Associate Professor Emeritus of Accounting (1975) (Ret. December 1989) B.B.A., M.B.A., Case Western Reserve University, 1959.
- ALBERT J. KORSOK, Associate Professor Emeritus of Geography (1968) (Ret. 1983) B.S., Case Western Reserve University; M.A., Northwestern University; Ph.D., University of Illinois, 1960.
- ALAN KRIGLINE, Professor Emeritus of Management (1973) (Ret. 1999) B.I.E., University of Florida; M.B.A., Ph.D., Georgia State University, 1977.
- ELISE H. KRIGLINE, Instructor Emeritus in Family and Consumer Sciences (March 1978) (Ret. June 2000) B.Ed., University of Miami; M.Ed., Georgia State University, 1973.
- ERNEST A. KUEHLS, Associate Professor Emeritus of Mathematical Sciences (1965) (Ret. December 1989) B.S.Ed., M.Ed., Miami University; Ph.D., The University of Akron, 1971.
- METON L KULT, Professor Emeritus of Electrical Engineering (January 1954) (Ret. 1983) B.S.E.E., M.S., University of Illinois, 1952.
- A.W. GERHARD KUNZE, Professor Emeritus of Geology (1974) (Ret. July 2000) B.S., Ph.D., Pennsylvania State University, 1973.
- DAVID E. KYVIG, Professor Emeritus of History (September 1971) (Ret. July 1999) B.A., Kalamazoo College; Ph.D., Northwestern University, 1971.
- GRETCHEN LAATSCH, Associate Director Emeritus, Gardner Student Center (August 1979) (Ret. May 1998) B.S., The University of Akron; M.A., Indiana University, 1970.
 GAYNOR E. LANIK, Assistant Professor Emeritus of Nursing (August 1981) (Ret. 1993) B.S.,
- University of Washington; M.S.N., The University of Akron, 1981. GORDON K. LARSON, Professor Emeritus of Physical Education (February 1961) (Ret. December
- 1984) B.S.Ed., M.E., Kent State University, 1954.
- EDWARD B. LASHER, Professor Emeritus of Education (1972) (Ret. June 1998) B.S., State University of New York College at Oneonta; M.S., Ed.S., Indiana University at Bloomington; Ed.D., University of North Dakota, 1971.
- JOSEPH C. LATONA, Professor Emeritus of Management and Director Emeritus of the Small Business Institute (1971) (Ret. 1994) B.A.Ed., The University of Akron; M.B.A., D.B.A., Kent State University, 1970.
- DOROTHY LAUBACHER, Professor Emeritus of Home Economics (1950) (Ret. 1977) B.S., M.A., The Ohio State University; M.L.S., Kent State University, 1967.
- CAROL W. LAWRENCE, Associate Professor Emeritus of Communicative Disorders (1985) (Ret. 1994) he Ohio State University; M.A., Ph.D., Kent State University, 1980.

- DIANE L. LAZZERINI, Academic Adviser Emeritus (July 1979) (Ret. 2000) B.A., M.A., The University of Akron, 1970.
- VIOLET E. LEATHERS, Associate Professor Emeritus of Education (1974) (Ret. 1996) B.S.Ed., M.S.Ed., Ed.D., The University of Akron, 1985.
- NADA LEDINKO, Professor Emeritus of Biology (1971) (Ret. 1989) B.S., The Ohio State University; M.S., Pennsylvania State University; Ph.D., Yale University, 1952.
- MARY S. LeFEVRE, Member of the General Faculty Emeritus (1979) (Ret, January 1990) B.S., Columbia University, 1945.
- WALTER D. LEHRMAN, Associate Professor Emeritus of English (1956) (Ret. December 1986) B.S., M.A., Columbia University; Ph.D., Case Western Reserve University, 1972.
- BRIAN P. LEONARD, Professor Emeritus of Mechanical Engineering (August 1965) (Ret. July 1997) B.M.E. University of Melbourne; M.A.E., Ph.D. Cornell University 1965.
- ARNO K. LEPKE, Professor Emeritus of Modern Languages (1961) (Ret. December 1989) University of Greifswald (Germany); Ph.D., University of Marburg (Germany), 1947.
- GERALD H. LEVIN, Professor Emeritus of English (1960) (Ret. December 1985) A.M., University of Chicago; M.S., Case Western Reserve University; Ph.D., University of Michigan, 1956.
- RICHARD H. LEWANDOWSKI, Associate Professor Emeritus of Business Management Technology (January 1984) (Ret. 1996) B.S., United States Military Academy; M.A., Georgetown University; M.B.A., The University of Akron, 1981.
- MARTHA C. LEYDEN, Associate Professor Emeritus of Education (1971) (Ret. December 1989) B.S.E., St. John College; M.Ed., Kent State University; Ed.D., Columbia University, 1971.
- ALBERT H. LEVERLE, Professor Emeritus of Law (1974) (Ret. 1996) B.S., The Ohio State University; J.D. Case Western Reserve University, 1960.
- CARL LIEBERMAN, Associate Professor Emeritus of Political Science (1967) (Ret. December 1993) B.A., Temple University; M.A., Ph.D., University of Pittsburgh, 1969.
- M. MARTHA LIERHAUS, Assistant Professor Emeritus of Mathematical Sciences (January 1967) (Ret. December 1989) B.A., B.S.Ed., M.A., Kent State University, 1963.
- HUGO LJERON, Professor Emeritus of Modern Languages; (1963) (Ret. June 2000) B.A., LaSalle University (Bolivia); LL.D., LL.B., Universidad San Francisco Xavier de Chuquisaca (Bolivia); M.A., Middlebury College; Ph.D., University of Madrid (Spain), 1965.
- MICHAEL P. LITKA, Professor Emeritus of Business Law (1971) (Ret. 1996) B.A., Grinnell College; M.A., J.D., University of Iowa, 1958.
- EDWIN L. LIVELY, Professor Emeritus of Sociology (1963) (Ret. 1978) B.A.Ed., Fairmont State College (W.Va.); M.A., Ph.D., The Ohio State University, 1959.
- HELEN P. LIVINGSTON, Associate Professor Emeritus of Bibliography (February 1970) (Ret. March 1987) B.A., Bishop's University; M.S., Simmons College, 1954.
- KRIEMHILDE I. R. LIVINGSTON, Instructor Emeritus in Modern Languages (1968) (Ret. 1994) Diploma, University of Munich (Germany); Diploma, Bavarian Interpreter School (Germany), 1947.
- MARIAN J. LOTT, Associate Professor Emeritus of Music (1967) (Ret. December 1988) B.M., M.M., Roosevelt University, 1951.
- DAVID P. LOYD, Associate Professor Emeritus of Marketing (1977) (Ret. June 1984) B.A., Ashland College; M.B.A., Ph.D., The Ohio State University, 1962.
- LLOYD B. LUEPTOW, Professor Emeritus of Sociology (1967) (Ret. December 1988) B.S., M.S., Ph.D., University of Wisconsin, 1964.
- RICHARD C. LUTZ, Associate Professor of Management (1973) (Ret. 1993) B.S., M.S., Southern Illinois University-Carbondale; Ph.D., Texas Technology University, 1972.
- LAURENCE J. MA. Professor Emeritus of Geography and Planning; (1971) (Ret. July 2000) B.A., National Taiwan University; M.A., Kent State University; Ph.D., University of Michigan at Ann Arbor, 1971.
- JOHN A. MacDONALD JR., Professor Emeritus of Music (1959) (Ret. 1994) B.M.Ed., Oberlin College; M.A., Ph.D., University of Michigan at Ann Arbor, 1964.
- KENNETH E. MacDONALD, Director Emeritus of Sports Information (January 1965) (Ret. December 1989) B.S.I.M., The University of Akron, 1963.
- LAZARUS W. MACIOR, Distinguished Professor Emeritus of Biology (1967) (Ret. June 2000) B.A., M.A., Columbia University; Ph.D., University of Wisconsin, 1959.
- THEODORE MACKIW, Professor Emeritus of Modern Languages (1962) (Ret. 1984) Ph.D., University of Frankfurt, 1950.
- JUDITH E. MAFFETT, Assistant Professor Emeritus of Physical Education (1968) (Ret. 989) B.S.Ed., M.Ed., Kent State University, 1962.
- EUGENE A. MAIO, Professor Emeritus of Modern Languages (1970) (Ret. 1996) B.A., M.A., S.T.L., St. Louis University; Ph.D., University of California at Los Angeles, 1967.
- COLEMAN J. MAJOR, Dean Emeritus of the College of Engineering; Professor Emeritus of Chemical Engineering (1964) (Ret. December 1979) B.S., University of Illinois; Ph.D., Cornell University, 1941.
- GEORGE J. MAKAR, Professor Emeritus in the Community and Technical College (1973) (Ret. 1996) B.S., Pennsylvania State University; M.Ed., Duquesne University; Ed.D., University of Pittsburgh, 1973.
- YOGENDRA K. MALIK, Professor Emeritus of Political Science (1969) (Ret. May 1998) B.A., M.A., Punjab University; M.A., Ph.D., University of Florida, 1966.
- JOHN MAPLES, Member of General Faculty Emeritus (1972) (Ret. January 1990) B.A., M.A., The University of Akron, 1974.
- JOANNE M. MARCHIONE, Associate Professor Emeritus of Nursing (1973) (Ret. May 1998) B.S.N., Case Western Reserve University; M.A.Ed., University of Santa Clara; M.A., University of Washington, 1968.
- FRANK MARINI, Professor Emeritus of Political Science; Professor Emeritus of Public Administration and Urban Studies (June 1985) (Ret. 1996) B.A., M.A., Arizona State University; Ph.D., University of California at Barkeley, 1966.
- ROBERTA P. MARQUETTE, Professor Emeritus of Accounting (1981) (Ret. July 2000) B.S., University of Florida; M.B.A., The University of Akron; D.B.A., Kent State University, 1980; C.P.A., Ohio.
- SPENCER MARSTON JR., Director Emeritus of Gardner Student Center (1970) (Ret. June 1998) B.S.L.E., M.S.Tech.Ed., The University of Akron, 1976.
- LAWRENCE T. MARTIN, Professor Emeritus of English (1977) (Ret. May 1998) A.B., Saint Francis Seminary; M.A., Ph.D., University of Wisconsin, 1977.
- JOHN MARWITT, Professor Emeritus of Anthropology (1971) (Ret. 1994) B.S., Florida State University; Ph.D., University of Utah, 1971.
- KENNETH E. MAST, Professor Emeritus of Marketing (1970) (Ret. 1996) B.A., M.B.A., The Ohio State University; D.B.A., Kent State University, 1980.

- ARMOLENE J. MAXEY, Associate Professor Emeritus of Sociology (Wayne General and Technical College) (1972) (Ret. August 1987) B.S., University of Nebraska; M.A., Kent State University, 1967.
- McKEE J. McCLENDON, Professor Emeritus of Sociology (1972) (Ret. May 1998) B.A., M.A., Ph.D., University of Kansas, 1972.
- KENNETH L.J. McCORMICK, Professor Emeritus of Criminal Justice (1973) (Ret. 1993) B.S., Michigan State University; M.A., Central Michigan University, 1972.
- EDWARD E. McDONALD, Professor Emeritus of Mechanical Technology (1972) (Ret. 1994) B.S.M.E., M.S.T.E., The University of Akron 1976.
- ROBERT McELWEE, Associate Professor Emeritus of Political Science (1972) (Ret. January 1998) B.A., M.A., Kent State University, 1969.
- DONALD McINTYRE, Professor Emeritus of Chemistry; Professor Emeritus of Polymer Science (1966) (Ret. 1996) A.B., Lafayette College; Ph.D., Cornell University, 1954.
- KATHLEEN A. McINTYRE, Coordinator Emeritus of the Tutorial Programs; (1977) (Ret. June 2000) B.A., Ursuline College; M.A., The University of Akron, 1977.
- REGIS O. McKNIGHT, Professor Emeritus of Education (1972) (Ret. 1994) B.S., M.Ed., Ed.D., Pennsylvania State University, 1971.
- MARTIN M. McKOSKI, Associate Professor Emeritus of English; (1974) (Ret. July 2000) B.A., Saint Joseph's College; M.A., The University of Akron; Ph.D., Florida State University, 1972.
- JAMES M. McLAIN, Professor Emeritus of Economics (1946) (Ret. 1978) B.A., The University of Akron; M.A., Western Reserve University; Ph.D., The Ohio State University, 1959.
- WILLIAM E. MCMAHON, Professor Emeritus of Philosophy (1969) (Ret. August 1999) B.A., University of Notre Dame; M.A., Brown University; Ph.D., University of Notre Dame, 1970.
- CLAUDE Y. MEADE, Professor Emeritus of Modern Languages (1964) (Ret. December 1989) B.A., M.A., University of Minnesota; Ph.D., University of California at Berkley, 1957.
- LAVERNE J. MECONI, Professor Emeritus of Education (1967) (Ret. 1996) B.S., West Chester State College (Pennsylvania); M.A., University of Pennsylvania; Ph.D., The Ohio State University, 1966.
- GARY MEEK, Professor Emeritus of Management (1971) (Ret. 1999) B.S., Cleveland State University; Ph.D., Case Western Reserve University, 1970.
- EBERHARD A. MEINECKE, Professor Emeritus of Mechanical Engineering; Professor Emeritus of Polymer Science (October 1963) (Ret. 1996) D. Eng., Brauschweig Institute of Technology (Germany), 1960.
- WARNER D. MENDENHALL, Professor Ementus of Political Science (Wayne College) (1972) (Ret. May 1998) B.S., Davidson College; M.A., Duke University; Ph.D., Kent State University, 1982.
- JACK F. MERCER, Professor Emeritus in the Community and Technical College (1965) (Ret. December 1988) A.B., Ohio University, M.A., Case Western Reserve University, 1958.
- R. PAUL MERRIX, Professor Emeritus of English (1966) (Ret. 1994) B.A., M.A., Butler University; Ph.D., University of Cincinnati, 1966.
- RUTH MESSENGER, Assistant Professor Emeritus of English (1968) (Ret. 1982) B.A., Wellesley College; M.A., The University of Akron; M.A.Ed., Ph.D., Case Western Reserve University, 1976.
- DONALD J. METZGER, Professor Emeritus of Anthropology (1968) (Ret. 1996) B.A., Youngstown University; Ph.D., University of Pittsburgh, 1968.
- CHRISTOPHER P. MEYER, Associate Professor Emeritus of Art (1972) (Ret. July 1997) B.A., Washington and Lee University; M.F.A., The Ohio State University, 1972.
- DENNIS A. MEYER, Professor Emeritus of Art (1969) (Ret. 1995) B.A., St. Norbert College; M.F.A., Ohio University, 1969.
- THOMAS T. MILES, Associate Professor Emeritus of Communication (October 1972) (Ret. 1996) B.S., M.S., Ed.A., Indiana State University; Ph.D., University of Iowa, 1973.
- IRVING MILLER, Professor Emeritus of Biomedical Engineering (1995) B.Ch.E., New York University; M.S., Purdue University; Ph.D., University of Michigan, 1960.
- WILLIAM I. MILLER, Associate Professor Emeritus of Modern Languages (1970) (Ret. July 2000) B.A., Wittenberg University; Ph.D., University of Florida, 1970.
- JOHN B. MONROE, Professor Emeritus in the Community and Technical College (1966) (Ret. December 1989) B.A., College of Wooster; M.A., Rutgers University, 1963.
- CHARLES K. MOORE, Professor Emeritus of Accounting (January 1973) (Ret. July 2000) A.A., Angelo State University; B.B.A., M.B.A., D.B.A., Texas Technical University, 1973; C.P.A., Texas.
- LINDA L. MOORE, Dean Emeritus of the College of Fine and Applied Arts; Professor Emeritus of Communication (1978) (Ret. June 1998) B.S., M.A., Bradley University; Ph.D., Kent State University, 1973.
- MARVIN M. MOORE, Professor Emeritus of Law (July 1960) (Ret. 1994) B.A., Wayne State University; J.D., LL.M., J.S.D., Duke University, 1968.
- DOROTHY C. MOSES, Professor Emeritus of Allied Health Technology; Professor Emeritus of Biology (1981) (Ret. 1996) B.S., Bates College; M.A., Mount Holyoke College; Ph.D., Kent State University, 1983.
- BARBARA G. MOSS, Professor Emeritus of Education (1989) (Ret. July 2000) B.S., The Ohio State University; M.Ed., Ph.D., Kent State University, 1988.
- ROBERT J. MRAVETZ, Associate Professor Emeritus of Physical Education (1970) (Ret. 1994) B.S.Ed., Miami University; M.Ed., Ohio University; Ph.D., The Ohio State University, 1970.
- BEVERLY J. MUGRAGE, Professor Emeritus in the Community and Technical College (1972) (Ret. 1994) B.S., Kent State University; M.S., Ph.D., The University of Akron, 1982.
- JOHN E. MULHAUSER, Associate Professor Emeritus of Geography and Planning (1966) (Ret. December 1993) B.A., M.A., Kent State University; J.D., The University of Akron, 1976.
- FRED L. MULLEN, Professor Emeritus of Mechanical Technology (1967) (Ret. 1993) B.S.E.E., Case Western Reserve University; M.S.E., The University of Akron, 1966.
- JOSEPH C. MULLIN, Assistant Professor Emeritus of Criminal Justice (1970) (Ret. 1986) B.S., Delta State College; M.S.Tech.Ed., The University of Akron, 1974.
- RUTH C. MURRAY, Rubber Division Literature Chemist Emeritus (July 1970) (Ret. December 1993) B.S., Chatham College, 1944.
- HARRY MURUTES, Assistant Professor Emeritus of Art (1982) (Ret. 1996) B.S., M.A., Kent State University; M.A., The Ohio State University; Ph.D., University of Michigan, 1983.
- JEROME MUSHKAT, Professor Emeritus of History (1962) (Ret. June 2000) B.A., M.A., D.S.S., Syracuse University, 1964.
- ROBERT H. MYERS, Professor Emeritus of Education (1966) (Ret. 1986) B.S.Ed., M.A., Ph.D., The Ohio State University, 1964.
- ESTELLE NAES, Professor Emeritus of Nursing and Dean Emeritus of the College of Nursing (1966) (Ret. 1975) B.S.N., M.S.N., Ph.D., Saint Louis University, 1962.

THOMAS L NASH, Professor Emeritus of Geography and Planning (1967) (Ret. 1994) B.A., M.A., Ph.D., Kent State University, 1973.

RICHARD NEAL, Equal Employment Opportunity and Affirmative Action Officer Emeritus (March 1970) (Ret. December 1988) B.A., The University of Akron, 1961.

DANNEL M. NELSON, Professor Emeritus of History (1970) (Ret. June 2000) B.A., Ohio Wesleyan University; M.A., The Ohio State University; Ph.D., University of Wisconsin, 1967.

WILLIAM E. NEMEC, Professor Emeritus of Education (1974) (Ret. 1996) B.S.S.S., John Carroll University; M.Ed., Ohio University; Ph.D., The Ohio State University, 1974.

- DAVID L. NICHOLS, Associate Professor Emeritus of Accounting (1971) (Ret. 1987) B.B.A., M.B.A., University of Houston; Ph.D., University of Arkansas, 1978.
- ALLEN G. NOBLE, Distinguished Professor Emeritus of Geography and Planning (1964) (Ret. 2000) B.A., Syracuse University; M.A., University of Maryland at College Park; Ph.D., University of Illinois at Urbana, 1957.

JUDITH A. NOBLE, Professor Emeritus of Education (1970) (Ret. August 1995) B.S., M.A., Central Michigan University; Ph.D., Michigan State University, 1971.

WALLACE H. NOLIN, Professor Ementus of Music (1969) (Ret. December 1989) B.S., Muskingum College; M.M.E., Kent State University; Ph.D., The Ohio State University, 1969.

JAMES W. NOLTE, Associate Professor Emeritus of Real Estate (1972) (Ret. 1993) B.A., M.A., The University of Akron, 1972.

OLIVER OCASEK, Professor Emeritus of Education (January 1961) (Ret. December 1978) B.S.Ed., M.A., Kent State University, 1950; LL.D., Kent State University, 1975; Litt. D., The University of Akron, 1978.

ROBERT A. DETJEN, Dean Emeritus of Buchtel College of Arts and Sciences; Professor Emeritus of Physics (July 1970) (Ret. 1977) B.A. Asbury College; M.S., Ph.D., University of Michigan, 1942.

JOHN H. OLLYE, Professor Emeritus of Biology (1970) (Ret. 1994) B.S., The Ohio State University, M.A., Ph.D., Kent State University, 1964.

JOHN OWEN, Director Emeritus of Admissions (June 1965) (Ret. August 1993) B.A., Johns Hopkins University; M.A., The University of Akron, 1973.

JOSEPH PADOVAN, Distinguished Professor Emeritus of Mechanical Engineering; Distinguished Professor Emeritus of Polymer Engineering (1970) (Ret. 1999) B.S.M.E., M.S.M.E., Ph.D., Polytechnic Institute of New York, 1969.

D'ORSAY W. PEARSON, Professor Emeritus of English (1966) (Ret. December 1989) B.A., University of North Carolina at Greensboro; M.A., University of Florida; Ph.D., Kent State University, 1969.

NORMA J. PEARSON, Assistant Professor Emeritus of Bibliography (1979) (Ret. 1994) B.A., M.L.S., M.A., Kent State University, 1978.

JOSEPH D. PERRY, Assistant Professor Emeritus of Home Economics and Family Ecology (1994) (Ret. 1996) B.S., Youngstown State University; M.Ed., Westminster College; Ph.D., Kent State University, 1977.

JON ROBERT PESKE, Associate Professor Emeritus in the Community and Technical College (1969) (Ret. 1995) B.A., M.A., The University of Akron, 1969.

- ISOBEL L. PFEIFFER, Professor Emeritus of Education (1966) (Ret. 1982) B.A., Manchester College; M.S., Indiana University; Ph.D., Kent State University, 1966.
- MARVIN E. PHILLIPS, Director of Public Services Emeritus (July 1972) (Ret. December 1988) A.A., Flint Community College; B.A., Albion College; M.A., Michigan State University, 1952.
- IRJA PIIRMA, Professor Emeritus of Polymer Science (December 1952) (Ret. 1990) Diploma in Chemistry, Technische Hochschule of Darmstadt (Germany); M.S., Ph.D., The University of Akron, 1960.
- JOHN C. PIZOR, Associate Professor Emeritus of Office Administration (1966) (Ret. 1985) B.S., Grove City College; M.Ed., University of Pittsburgh, 1946.
- ARTHUR R. POLLOCK JR., Professor Emeritus of Social Science (1967) (Ret. 1993) B.S.Ed., Indiana University of Pennsylvania; M.A., Case Western Reserve University, 1968.

MARGARET M. POLOMA, Professor Emeritus of Sociology (1970) (Ret. 1995) B.A., Notre Dame College of Ohio; M.A., Ph.D., Case Western Reserve University, 1970.

VELMA E. POMRENKE, Professor Emeritus of Social Science (January 1978) (Ret. 1996) B.A., University of Western Ontario; M.A., New York University; Ph.D., The University of Akron, 1979.

JOHN A. POPPLESTONE, Professor Emeritus of Psychology; Director Emeritus of the Archives of History of American Psychology (1961) (Ret. July 1999). B.A., University of Michigan at Ann Arbor; M.A., Wayne State University; Ph.D., Washington University, 1958.

MINNIE C. PRITCHARD, Associate Dean Emeritus of the Community and Technical College; Professor Emeritus of Surveying and Construction Technology (1971) (Ret. 1996) B.S.C.E., M.S.Tech.Ed., The University of Akron, 1981.

JONATHON RAKICH, Distinguished Professor Emeritus of Management (1972) (Ret. 1999) B.A., Oakland University; M.B.A., University of Michigan at Ann Arbor; Ph.D., St. Louis University, 1970.

MALCOLM R. RAILEY, Associate Professor Emeritus of Electrical Engineering (1970) (Ret. 1992) B.S., M.S., Ph.D., University of Texas at Austin, 1970.

- MARY C. RAINEY, Professor Emeritus of Family and Consumer Sciences; Fellow, Institute for Life-Span Development and Gerontology (1980) (Ret. June 2000) B.A., Saint Mary's College; M.A., Ph.D., Michigan State University, 1971.
- JOHN H. RAMEY, Associate Professor Emeritus of Social Work (1969) (Ret. December 1989) B.A., M.S.W., The Ohio State University, 1950.

NICHOLAS RANSON, Associate Professor Emeritus of English; (1973) (Ret. July 2000) B.A., M.A., Cambridge University (England); Ph.D., Case Western Reserve University, 1974.

GEORGE E. RAYMER, Director Emeritus of Communications (August 1961) (Ret. December 1988) B.A., Kent State University; B.A.Ed., M.A.Ed., The University of Akron, 1968.

HOWARD S. REINMUTH JR., Associate Professor Emeritus of History (1966) (Ret. July 1993) B.A., M.A., Ph.D., University of Minnesota, 1958.

JANET R. REUTER, Associate Professor Emeritus of Education (1975) (Ret. July 1997) B.S.Ed., M.Ed., Ohio University; Ph.D., University of Toledo, 1975.

RICHARD S. RICE, Assistant Dean Emeritus of the College of Engineering (August 1984) (Ret. 1996) B.S.B.A., Bowling Green State University, 1959.

ALVIN M. RICHARDS, Professor Emeritus of Civil Engineering (June 1949) (Ret. December 1983) B.C.E., The University of Akron; M.S., Harvard University; Ph.D., University of Cincinnati, 1968.

JAMES F. RICHARDSON, Professor Emeritus of History, Professor Emeritus of Urban Studies (1967) (Ret. 1992) B.A., Iona College; Ph.D., New York University, 1961.

DAVID C. RIEDE, Professor Emeritus of History (1955) (Ret. December 1989) B.A., M.A., Ph.D., University of Iowa, 1957. RICHARD S. ROBERTS, Professor Ementus of Accounting (1964) (Ret. December 1989) B.B.A., University of Cincinnati; M.B.A., Ph.D., The Ohio State University, 1966.

- ROBERT W. ROBERTS, Professor Emeritus of Chemical Engineering (1966) (Ret. December 1988) B.S.Ch.E., Washington University; M.S.Ch.E., Ph.D.Ch.E., University of Iowa, 1962.
- DAVID J. ROBINSON, Professor Emeritus of Electronic Technology (1969) (Ret. 1995) B.S.E.E., The University of Akron; M.S.E., Case Western Reserve University; J.D., The University of Akron, 1975.
- DAVID N. ROBINSON, Professor Emeritus of Civil Engineering (January 1983) (Ret. June 2000) B.Sc., Northern Arizona University; M.Sc., Ph.D., Brown University, 1966.
- LOUIS D. RODABAUGH, Associate Professor Emeritus of Mathematics (1964) (Ret. 1978) B.A., Miami University; M.A., Ph.D., The Ohio State University, 1938.
- LINDA J. RODDA, Professor Emeritus of Office Administration (1967) (Ret. 1993) B.S.Ed., M.A., The University of Akron, 1969.
- LOUIS ROEMER, Professor Emeritus of Electrical Engineering (1968) (Ret. 1989) B.S., M.S.E.E., Ph.D., University of Delaware, 1967.
- WILLIAM ROOT, Professor Emeritus of Education (1968) (Ret. 1982) B.S., M.A., Ph.D., The Ohio State University, 1958.
- HENRY S. ROSENQUIST, Associate Professor Emeritus of Psychology (1965) (Ret. December 1988) B.S., M.A., Columbia University; Ph.D., Tulane University of Louisiana, 1964.
- MICHAEL B. ROSS, Associate Professor Emeritus of Education (1973) (Ret. July 1995) B.S.Ed., Shippensburg State College; M.Ed. Ed.D., Pennsylvania State University, 1974.
- PAMELA R. RUPERT, Director Ementus of Developmental Programs (July 1978) (Ret. 1996) B.S.Ed., Kent State University; M.S.Ed., Ph.D., The University of Akron, 1979.
- HELEN LENORE RYAN-RANSON, Professor Emeritus of Modern Languages; (1968) (Ret. July 2000) B.A., Ohio Wesleyan University; M.A. (Spanish), M.A. (French), D.M.L., Middlebury College, 1980.
- RICHARD W. RYMER, Counseling Psychologist Emeritus (August 1970) (Ret. 1993) B.S., M.A., Kent State University, 1961. AR IAN T. SADHWANI, Professor Emeritus of Accounting (1970) (Ret. August 1995). A. B. Com
- ARJAN T. SADHWANI, Professor Emeritus of Accounting (1970) (Ret. August 1995) A., B.Com., M.Com., Bombay University; Ph.D., Michigan State University, 1971.
- SIMSEK SARIKELLE, Professor Emeritus of Civil Engineering (1967) (Ret. July 1997) B.S.C.E., Robert College; M.S.C.E., Ph.D., West Virginia University, 1966; P.E., Ohio, West Virginia.
- RITA SASLAW, Professor Emeritus of Education (1975) (Ret. 1999) B.S., M.A., Ph.D., Case Western Reserve University, 1971.
- MICHAEL SAVAGE, Professor Emeritus of Mechanical Engineering (1979) (Ret. 1999) B.M.E., Manhattan College; M.S.M.E., Ph.D., Purdue University, 1969.
- BLIN B. SCATTERDAY, Professor Emeritus in the Community and Technical College (1964) (Ret. December 1989) B.A., M.A.Ed., The University of Akron, 1963.
- RUDOLPH J. SCAVUZZO JR., Associate Dean Emeritus of the College of Polymer Science and Polymer Engineering; Professor Emeritus Polymer Engineering; Professor Emeritus of Mechanical Engineering; (1973) (Ret. July 2000) B.S.M.E., Lehigh University; M.S.M.E., Ph.D., University of Pittsburgh, 1962; P.E., Ohio.
- PHILLIP H. SCHMIDT, Professor Ementus of Applied Mathematics; (1972) (Ret. June 2000) B.S., M.S., Ph.D., Purdue University, 1972.
- ROBERT G. SCHMIDT, Associate Professor Emeritus of Sociology (1967) (Ret. 1980) B.A., Illinois College; M.A.T., Harvard University; Ph.D., Washington University, 1955.
- RONALD E. SCHNEIDER, Associate Professor Emeritus of Physics (1962) (Ret. 1993) B.S., The University of Akron; M.S., Virginia Polytechnic Institute; M.S., John Carroll University; Ph.D., Case Western Reserve University, 1964.
- SUSAN J. SCHUNK, Assistant Professor Emeritus of Modern Languages (1971) (Ret. June 2000) B.S. Ed., Indiana University of Pennsylvania; M.A., The Ohio State University, 1968.
- JOHN S. SERAFINI, Associate Professor Emeritus of Mechanical Engineering (January 1982) (Ret. 1996) B.A.E., M.A.E., Rensselaer Polytechnic Institute; Ph.D., Case Western Reserve University, 1962.
- JAMES L. SHANAHAN, Professor Emeritus of Public Administration and Urban Studies (1970) (June 1998) B.B.S., West Virginia State College; M.A., West Virginia University; Ph.D., Wayne State University, 1972.
- ROBERT J. SHEDLARZ, Professor Emeritus of Business Law (1972) (Ret. 1996) B.A., New York University; J.D., Notre Dame Law School, 1972.
- WALTER A. SHEPPE, Professor Emeritus of Biology (1968) (Ret. December 1988) B.S., College of William and Mary; M.A., Ph.D., University of British Columbia, 1958.
- KARL A. SHILLIFF, Professor Emeritus of Management (1967) (Ret. 1996) B.S.Ch.E., Pennsylvania State University; M.B.A., The University of Akron; Ph.D., Pennsylvania State University, 1971.
- MARTIN H. SIEGEL, Associate Professor Emeritus of Marketing and Sales Technology (1972) (Ret. 1996) B.F.A., M.A., Hunter College, 1965.
- KENNETH T. SILOAC, Associate Professor Emeritus of Speech Pathology and Audiology (1971) (Ret. May 1998) B.S., M.Ed., Ph.D., Wayne State University, 1971.
- ANDREW L. SIMON, Professor Emeritus of Civil Engineering (1965) (Ret. 1989) C.E. Diploma, Technical University of Budapest; Ph.D., Purdue University, 1962.
- FRANK L. SIMONETTI, Professor Emeritus of Management (1942-1943), (1945) (Ret. 1981) B.S., The University of Akron; M.B.A., Boston University; D.B.A., Indiana University, 1954.
- HOWARD K. SLAUGHTER, Professor Emeritus of Theatre Arts (1967) (Ret. December 1988) A.A., San Francisco City College; B.A., University of California at Berkeley; M.A., University of Hawaii; Ph.D., University of Pittsburgh, 1966.
- SALLY KENNEDY SLOCUM, Associate Professor Emeritus of English (1966) (Ret. 1996) B.A., Columbia College; M.A., Ph.D., University of Tennessee at Knoxville, 1968.
- HENRY P. SMITH, Associate Professor Emeritus of Music (1947) (Ret. 1978) B.M., Illinois Wasleyan University; M.A., Carnegie Institute of Technology; Ed.D., Columbia University, Teachers College, 1949.
- GLENN H. SNYDER, Professor Emeritus of Community Services Technology (1973) (Ret. July 1997) B.A.Ed., The University of Akron, M.Ed., Kent State University, 1972.
- ROBERT J. SOVCHIK, Professor Emeritus of Education (1973) (Ret. 1996) B.S., Kent State University; M.A., Cleveland State University; Ph.D., Kent State University, 1974.
- NORMA L. SPENCER, Associate Professor Emeritus of Education (1970) (Ret. 1996) B.S.Ed., M.S., The University of Akron, 1970.
- SUSAN J. STEARNS, Associate Professor Emeritus of Nursing (1974) (Ret. May 1998) B.S.N., Saint John's College; M.S.N., Catholic University of America, 1963.
- RAMON F. STEINEN, Professor Emeritus of Education (1969) (Ret. 1987) B.A., M.A., Montclair State College; Ph.D., The Ohio State University, 1966.

- KAY E. STEPHAN, Professor Emeritus of Business and Office Technology; (January 1979) (Ret. June 2000) B.S.Ed., Wittenberg; M.S., The University of Akron, 1978.
- HOWARD L. STEPHENS, Professor Emeritus of Polymer Science; Professor Emeritus of Chemistry (June 1950) (Ret. 1982) B.S., M.S., Ph.D., The University of Akron, 1960.
- WALLACE STERLING, Professor Emeritus of Theatre Arts (1966) (Ret. 1996) B.A., M.A., University of Florida; Ph.D., Southern Illinois University at Carbondale, 1966.
- WARREN P. STOUTAMIRE, Professor Emeritus of Biology (1966) (Ret. 1991) B.S., Roanoke College; M.S., University of Oregon; Ph.D., Indiana University at Bloomington, 1954.
- CHARMAINE J. STREHARSKY, Director Emeritus of Research Services and Sponsored Programs (1964) (Ret. 1996) A.A.S., B.S.T.E., M.S.T.E., Ph.D., The University of Akron, 1988.
- PHILLIP W. STUYVESANT, Associate Professor Emeritus of Modern Languages (1966) (Ret. 1996) B.A., Thiel College; M.A., Ph.D., Case Western Reserve University, 1970.
- LINDA ELLISON SUGARMAN, Assistant Professor Emeritus of Accounting (1970) (Ret. 1996) B.B.A., M.S.Ed., Hofstra University, 1968.
- MICHAEL N. SUGARMAN, Professor Emeritus of Education (1970) (Ret. December 1993) B.S.B.A., Ed.M., Ed.D., State University of New York at Buffalo, 1966.
- JOY S. SWAN, Professor Emeritus of Education (1967) (Ret. December 1988) B.S., Carnegie-Mellon University; M.LITT., M.Ed., D.Ed., University of Pittsburgh, 1964.
- LEONARD SWEET, Professor Emeritus of Mathematical Sciences (1959) (Ret. December 1986) B.A. Ed., The University of Akron; M.Ed., Kent State University; Ph.D., Case Western Reserve University, 1970.
- JAMES D. SWITZER, Professor Emeritus in the Community and Technical College (1965) (Ret. 1995) B.A., College of Wooster; M.A., Kent State University, 1965.
- GEORGE L. SZOKE, Associate Professor Emeritus of Mathematical Sciences (1963) (Ret. December 1992) B.S.M.E., Polytechnical University of Budapest; M.S.E., The University of Akron; Ph.D.Eng., Technical University of Budapest, 1980.
- JAMES W. TAGGART, Professor Emeritus of Business Management Technology; (1969) (Ret. June 2000) B.S., Youngstown State University; M.B.A., Pennsylvania State University; J.D., The University of Akron, 1974.
- JOSEPH A. TAKACS, Professor Emeritus of Electronic Technology (1974) (Ret. 1994) B.S.E.E., M.S.E.E., The University of Akron, 1961.
- CATHRYN C. TALLAFERRO, Assistant Professor Emeritus of English (1961) (Ret. 1981) B.A., The University of Akron; M.A., Radcliffe College, 1940.
- HOWARD L. TAYLOR, Professor Emeritus of Management (1963) (Ret. December 1988) B.S., The University of Akron; M.S., Ph.D., Iowa State University, 1958.
- PATRICIA J. TAYLOR, Assistant Professor Emeritus of Physical Education (1962) (Ret. December 1989) B.S.Ed., The University of Akron, M.A., Kent State University, 1972.
- RONALD D. TAYLOR, Professor Emeritus of Art (1964) (Ret. 1993) B.F.A., M.A., The Ohio State University, 1963.
- JAMES W. TEETER, Professor Emeritus of Geology (1965) (Ret. 1994) B.S.C., M.S.C., McMaster University; Ph.D., Rice University, 1966.
- STUART M. TERRASS, Director of Institutional Studies and Research Emeritus (December 1957) (Ret. March 1986) B.A., B.S., M.A., The University of Akron, 1965.
- LUCILLE M. TERRY, Associate Professor Emeritus of Home Economics and Family Ecology (1986) (Ret. June 1998) B.A., Wartburg College; M.S., Ph.D., University of North Carolina at Greensboro, 1978.
- ROBERT M. TERRY, Professor Emeritus of Sociology (1971) (Ret. December 1989) B.A., M.A., Ph.D., University of Wisconsin, 1965.
- HELEN S. THACKABERRY, Assistant Professor Emeritus of English (1940) (Ret. 1976) B.A., M.A., State University of Iowe, 1937.
- EDWIN THALL, Professor Emeritus of Chemistry (Wayne College) (1974) (Ret. 1996) B.S., Pratt Institute; M.S., New Mexico Highlands University; Ph.D., The University of Akron, 1972.
- HELENE S. THALL, Assistant Dean Emeritus of Wayne College (Wayne College) (1980) (Ret. 1996) B.S., M.S., Pratt Institute, 1969.
- FRANCIS B. THOMAS, Associate Vice President Emeritus for Information Services (December 1970) (Ret. December 1995) B.S., University of Cincinnati; M.A., Kent State University; Ph.D., The University of Akron, 1983.
- JACK E. THOMPSON, Associate Professor Emeritus of Business Management Technology (January 1974) (Ret. December 1991) B.S.B.A., Kent State University; M.S., The University of Akron, 1975.
- STEPHEN J. THOMPSON, Professor Emeritus of Education (1973) (Ret. May 1998) B.S., University of Wisconsin et Oshkosh; M.A., University of Northern Colorado; Ph.D., Syracuse University, 1973.
- DONALD C. THORN, Professor Emeritus of Electrical Engineering (1967) (Ret. 1987) B.S.E.E., Texas A&M College; M.S.E.E., Ph.D.E.E., University of Texas at Austin, 1958.
- DAVID H. TIMMERMAN, Associate Professor Emeritus of Civil Engineering (1962) (1967) (Ret. 1989) B.S.C.E., M.S., Ohio University; Ph.D., Michigan State University, 1969.
- ARLENE A. TOTH, Instructor Emeritus in English (1969) (Ret. 1996) B.A., M.A., The University of Akron, 1969.
- EVELYN M. TOVEY, Professor Emeritus of Nursing (1950) (Ret. November 1975) B.S.N., M.S.N., Case Western Reserve University, 1950.
- GENEVIEVE H. TURLIK, Assistant Professor Emeritus of Medical Assisting Technology (1971) (Ret. 1988) B.A., M.S. Tech.Ed., The University of Akron, 1980.
- KAREN B. TURNER, Associate Professor Emeritus of American Sign Language Interpreting and Transliterating Technology (October 1970) (Ret. August 2000) B.S., Kent State University; M.S.Ed., The University of Akron, 1974.
- PAUL UHLINGER. Professor Emeritus of Philosophy (1968) (Re_ B.A., Youngstown University; B.D., Oberlin College; Ph.D., Boston University, 1953.
- JANET B. VAN DOREN, Associate Professor Emeritus of Chemical Technology (1983) (Ret. 1993) B.S., University of Illinois; M.S., Michigan State University, 1956.
- KATHRYN A. VEGSO, Member of the General Faculty Emeritus (February 1959) (Ret. January 1986) B.S., University of Illinois; M.S.Ed., The University of Akron, 1964.
- RICHARD F. VIERING, Professor Emeritus of Education (1982) (Ret. December 1989) B.S., M.S., Ph.D., Kent State University, 1970.
- DIANE VUKOVICH, Director Emeritus of Developmental Programs (1976) (Ret. July 2000) B.S., Youngstown State University; M.Ed., Kent State University; Ph.D., The University of Akron, 1975.
- MARTHA W. VYE, Professor Emeritus of Office Administration (1973) (Ret. May 1998) B.S., Appalachian State University; M.S., Bowling Green State University, 1965.

- MELVIN C. VYE, Professor Emeritus of Electronic Technology (1972) (Ret. August 1997) B.S.E.E., Ohio University; M.E., Pennsylvania State University, 1969.
- EDWIN E. WAGNER, Professor Emeritus of Psychology (1959) (Ret. August 1989) B.A., M.A., Ph.D., Temple University, 1959.
- JANET W. WAISBROT, Assistant Professor Emeritus of Modern Languages (1965) (Ret. August 1985) B.A., Case Western Reserve University; M.A., Kent State University, 1966.
- MILTON WALES, Assistant Professor Emeritus of Mechanical Technology (1966) (Ret. 1977) B.S., Louisiana State University; M.Ed., Pennsylvania State University, 1966.
- JOHN R. WALKER, Grant and Contract Accountant Emeritus (March 1978) (Ret. July 1997) B.S., M.A., The University of Akron, 1991.
- JOSEPH M. WALTON, Professor Emeritus of Education; (1970) (Ret. July 2000) B.S.Ed., University of Cincinnati; M.Ed., Xavier University; Ph.D., The Ohio State University, 1970.
- JOAN E. WARNER, Professor Emeritus of Office Administration (1964 1971) (1975) (Ret. October 1987) B.S., M.S.Ed., The University of Akron, 1966.
- VIRGINIA J. WATKINS, Associate Professor Emeritus of Office Administration (1967) (Ret. December 1988) B.A.Ed., M.A.Ed., Arizona State University, 1953.
- JOHN STEWART WATT, Professor Emeritus of Education (1956) (Ret. 1989) B.A., The University of Akron; M.A., Ph.D., University of Chicago, 1950.
- WILLIAM V. WEBB, Assistant Professor Emeritus in the Community and Technical College (1968) (Ret. June 1969) B.A., University of Notro Dame; M.S., John Carroll University, 1960.
- WYATT M. WEBB, Associate Professor Emeritus of Physical Education (1967) (Ret. 1994) B.S.Ed., The University of Akron; M.S.Ed., University of Cincinnati; Ph.D., The Ohio State University, 1967.
- PAUL WEIDNER, Professor Emeritus of Political Science (1960) (Ret. December 1984) B.A., M.A., University of Cincinnati; Ph.D., University of Michigen, 1969.
- RUSSELL WEINGARTNER, Professor Emeritus of Modern Languages (1970) (Ret. 1986) B.A., University of Cincinnati; M.S., Ph.D., Princeton University, 1968.
- EDITH K. WEINSTEIN, Professor Emeritus in the Community and Technical College (1969) (Ret. 1994) B.A., M.A.Ed., The University of Akron, 1968.
- DAVID M. WEIS, Professor Emeritus of Education; Senior Fellow, Institute for Life-Span Development and Gerontology (1967) (Ret. July 1998) B.A., Loras College; M.S., Ohio University; Ph.D., The Ohio State University, 1967.
- ARTHUR G. WENTZ, Associate Professor Emeritus of Finance (1982) (Ret. 1994) B.S.B.A., Duquesne University; M.B.A., University of Pittsburgh; Ph.D., The Ohio State University, 1969.
- ROBERT C. WEYRICK, Dean Emeritus in the Community and Technical College; Professor Emeritus in the Community and Technical College (February 1965) (Ret. December 1988) B.E.E., The University of Akron; M.S., Case Institute of Technology, 1965.
- JOHN WIANDT, Associate Controller Emeritus (July 1967) (Ret. 1996) B.S.Bus.Ed., Kent State University, 1965.
- JEAN R. WILLIAMS, Associate Professor Emeritus of Home Economics (1973) (Ret. December 1990) B.S., Iowa State University; M.S., The University of Akron, 1972.
- JOHN D. WILLIAMS, Professor Emeritus of Finance (1969) (Ret. June 1998) B.S., Westminster College; M.B.A., D.B.A., Kent State University, 1971.
- MAURICE WILLIAMS, Professor Emeritus of Education (1966) (Ret. December 1988) B.A., The University of Akron; M.E., Kent State University; Ed.D., Case Western Reserve University, 1962.
- RICHARD A. WILLIAMS, Associate Professor Emeritus of Electrical Engineering (1968) (Ret. 1989) B.S., M.S., Ph.D., The Ohio State University, 1965.
- MAX S. WILLIS JR., Professor Emeritus of Mechanical Engineering; Professor Emeritus of Biomedical Engineering; Associate Dean Emeritus for Research and Graduate Studies in the College of Engineering (1968) (Ret. July 2000) B.S.Ch.E., Pennsylvania State University; M.S.Ch.E., Ph.D., Iowa State University of Science and Technology, 1962.
- CHARLES W. WILSON III, Professor Emeritus of Physics and Polymer Science (1965) (Ret. December 1989) B.S.E., M.S., University of Michigan at Ann Arbor; Ph.D., Washington University, 1952.
- G. EDWIN WILSON JR., Associate Provost Emeritus for Research; (1984) (Ret. July 2000) B.S., Massachusetts Institute of Technology; Ph.D., University of Illinois, 1964.
- JOHN W. WILSON, Member of the General Faculty Emeritus (July 1970) (Ret. December 1989) B.S., Albany State College; M.S.Ed., Ed.D., The University of Akron, 983.
- MARY H. WILSON, Assistant Professor Emeritus of Home Economics (April 1943) (Ret. 1972) B.S., Iowa State College, 1932.
- PAUL S. WINGARD, Associate Dean Emeritus of the Buchtel College of Arts and Sciences; Professor Emeritus of Geology (February 1966) (Ret. December 1989) B.A., M.S., Miarni University; Ph.D., University of Illinois at Urbana, 1960.
- BERNARD S. WINKCK, Associate Professor Emeritus of Business Law (1979) (Ret. June 1998) B.S.B.A., The Ohio State University; J.D., The University of Akron, 1964.
- JAMES A. WITHEROW, Assistant Professor Emeritus of Physical Education (1972) (Ret. December 1984) B.S., M.Ed., Kent State University, 1956.
- MARY O. WITWER, Professor Emeritus of Office Administration (1971) (1972) (Ret. December 1988) B.S., The University of Akron; M.E., Ohio University, 1951.
- CHARLES L. WOOD, Associate Professor Emeritus of Education (1966) (Ret. January 1986) B.A., Simpson College; M.A., Ph.D., University of Iowa, 1966.
- JOHN W. WORKS, Associate Professor Emeritus of Finance (1981) (Ret. 1989) B.A., Brown University, J.D., Ohio Northern University; M.B.A., Ph.D., Northwestern University, 1968.
- ROBERT L. ZANGRANDO, Professor Emeritus of History (1971) (Ret. 1994) B.A., Union College; M.A., Ph.D., University of Pennsylvania, 1963.
- HANS O. ZBINDEN, Assistant Professor Emeritus of Modern Languages (1965) (Ret. 1995) B.A., Wittenberg University; M.A., University of Pennsylvania; Ph.D., Pennsylvania State University, 1971.
- DONALD A. ZIMMERMAN, Associate Professor Emeritus of Marketing and Sales Technology (1973) (Ret. June 1998) B.B.A., Defiance College; M.B.A., University of Pennsylvania, 1968.

Full-Time Faculty and Administration

- LUIS M. PROENZA, President; Professor of Biology; Adjunct Professor of Education; Adjunct Professor of Political Science (January 1999) B.A., Emory University; M.A., The Ohio State University; Ph.D., The University of Minnesota, 1971.
- RULA ABISAAB, Assistant Professor of History (1998) B.A., American University of Beirut; M.A., California State University at Fullerton; M.Phil., Ph.D., Yale University, 1998.
- DANNY W. ABOOD, Coordinator Facilities and Operations (October 1981) B.A., The University of Akron, 1981.
- STEPHEN H. ABY, Associate Professor of Bibliography; Education Bibliographer; (August 1988) B.A., University of Texas at Austin; M.A., University of Houston; Ph.D., State University of New York at Buffalo; M.L.S., Kent State University, 1984.
- MARIA ADAMOWICZ-HARIASZ, Associate Professor of Modern Languages (1995) M.A., Maria Curia-Sklodowska University, Poland; M.A., Ph.D., University of Pennsylvania, 1994.
- JEFFREY D. ADLER, Assistant Professor of Mathematics (1998) B.A., Princeton University; M.A., Ph.D., University of Chicago, 1996.
- AIGBE AKHIGBE, Professor of Finance; Fredrick W. Moyer Chair in Finance (2000) B.S., University of Ibadan, M.S. University of Southwestern Louisiana, M.B.A., Ph.D., University of Houston, 1991.
- M. KAY ALDERMAN, Professor of Education (1979) B.S., University of Southern Mississippi; M.Ed., University of Texas at Austin; Ed.D., University of Houston, 1976.
- SONIA ALEMAGNO, Assistant Professor of Public Administration and Urban Studies; Senior Research Associate, Health and Social Policy (1998) B.A., John Carroll University; M.A., Kent State University; Ph.D., Case Western Reserve University, 1991.
- TANA F. ALEXANDER, Associate Professor of Music (1978) B.M., The Ohio State University; M.M., University of Louisville, 1974.
- MARK ALLEN, Manager of Intramurals (July 1989) B.A., Kent State University, 1975.
- PHILLIP ALLEN, Professor of Psychology, Senior Fellow, Institute for Life-Span Development & Gerontology (2000) B.S., M.A., Ph.D., The Ohio State University (1987).
- ROXANNE ALLEN, Head Women's Basketball Coach (April 1997) B.S., McNeese State University, M.S., Lamar University, 1988.
- STEPHEN J. ALLEN, Multi-Media Producer (March 1997) B.S., Montana State University; M.S., Kent State University, 1987.
- ALAN S. AMBRISCO, Assistant Professor of English (1999) B.A., SUNY Buffalo; M.A., Ph.D., Indiana University, 1999.
- ALFRED L. ANDERSON, Professor of Music (1985) B.M.E., Mississippi College; M.M., Indiana University, 1970.
- CAROLYN M. ANDERSON, Associate Professor of Communication (1995) B.A., University of Detroit; M.A., Wayne State University; Ph.D., Kent State University, 1992.
- LLOYD C. ANDERSON, Professor of Law; C.Blake McDowell Jr., Professor (August 1981) B.A., University of Michigan; J.D., Harvard University, 1973.
- THOMAS E. ANDES, Associate Professor of Business Management Technology (Wayne College) (1983) B.S.Ed., The University of Akron; M.M., Northwestern University, 1979.
- JEROME E. APPLE, Assistant Professor of Accounting (August 1996) B.A., The Ohio State University; J.D., Cleveland State University; M.T., The University of Akron, 1987.
- WILLIAM B. ARBUCKLE, Associate Professor of Civil Engineering (July 1982) B.S.Ch.E., Ohio University; M.S.E.E., Ph.D., University of North Carolina, 1975.
- STEPHEN C. ARON, Professor of Music (1981) B.M., University of Hartford; M.M., University of Arizona, 1981.
- STEVEN R. ASH, Assistant Professor of Management (2001) B.A., M.B.A., Ph.D., New Mexico State University, 1996.
- JOHN H. ASHLEY, Coordinator of Photographic Services (1973) B.S., Southern Illinois University at Carbondale; M.S., Indiana University at Bloomington, 1973.
- ROCHELLE R. ATHEY, Associate Director Research Services and Sponsered Programs (July 2000) B.A., M.A., Kent State University; M.A., The Ohio State University, 1989.
- MARK S. AUBURN, Dean of Fine and Applied Arts; Professor of English; Professor of Dance, Theater and Arts Administration; NCA Self Study Liaison Uuly 1991) B.S., B.A., The University of Akron; M.A., Ph.D., University of Chicago, 1971.
- NORMAN P. AUBURN, Consultant, President Emeritus of the University; Professor Emeritus of Political Science (1951) (ret. as President 1971; Consultant 1971-) B.A., University of Cincinnati, 1927; LL.D., Parsons College, 1945; LL.D., University of Cincinnati, 1952; D.S., University of Tulsa, 1957; LL.D., University of Liberia (West Africa), 1959; Litt.D., Washburn University of Topeka, 1961; L.H.D., College of Wooster, 1963; LL.D., The University of Akron, 1971; D.C.L., Union College, 1979.
- KENNETH E. AUPPERLE, Professor of Management (1986) B.A., M.A., Western Michigan University; M.B.A., Kansas State University; Ph.D., University of Georgia, 1982.
- JAMES F. AUSTIN, Associate Professor of Education (1987) B.A., M.A., Ph.D., Case Western Reserve University, 1971.
- DAVID P. AYERS, Director, International Programs (1998) B.S., University of Colorado; M.A., Ball State University; Ed.S., Pittsburgh State University; Ph.D., Kansas State University, 1996.
- RICHARD L. AYNES, Dean of School of Law; Professor of Law; Research Fellow, Constitutional Law Center (1976) B.S., Miami University; J.D., Cleveland State University, 1974.
- BRIAN P. BAGATTO, Assistant Professor of Biology (2001) B.S., Queen's University; M.S., Aubum University, 1997.
- DAN M. BALLEY, Head Strength and Conditioning Coach (August 1995) B.S., University of Nebraska, 1988.
- WILLIAM D. BAILEY, Assistant Dean and Student Life and Enrollment Management (July 1996) B.A., University of Pittsburgh; M.A., West Virginia University, 1981.
- DAVID B. BAKER. Director of Archives of History of American Psychology, Associate Professor of Psychology (1999) B.A., Millersville State College; M.Ed., Southwest Texas State University, Ph.D., Texas A&M University, 1998.
- FRED A. BALDWIN, Associate Professor of Criminal Justice Technology (1995) A.A.S., B.S., M.P.A., The University of Akron, 1993.
- BRIAN M. BALLOU, Assistant Professor of Surveying and Construction Engineering Technology (1999) B.S., M.S., Case Western Reserve University, 1998.
- KATHLEEN F. BAME, Director of Development (1996) B.A., The University of Akron, 1991.
- CHRISTOPHER P. BANKS, Associate Professor of Political Science (1995) B.A., University of Connecticut; J.D., University of Dayton; Ph.D., University of Virginia, 1995.

- SHELLEY O. BARANOWSKI, Professor of History (1989) B.A., Wells College; M.A., Ph.D., Princeton University, 1980.
- ANTHONY E. BARNES, Associate Director University Communications (June 1989) B.S., Ohio University, 1986.
- JAMES BARNETT, Director, Institute for Global Business; Global Business Executive in Residence (1996) B.S., The University of Akron, 1992.
- ANNA MARIA BARNUM, Professor of Technical Writing and Composition (1970) B.A., Middlebury College; M.A., University of Vermont; J.D., The University of Akron, 1977.
- ENRIQUETA C. BARRERA, Associate Professor of Geology (January 1996) B.S., University of Washington; M.A., M.S., Ph.D., Case Western Reserve University, 1987.
- LINDA R. BARRETT, Associate Professor of Geography and Planning (1995) B.A., M.A., Ph.D., Michigan State University, 1995.
- ABEL A. BARTLEY, Associate Professor of History; Director, Pan African Studies (1994) B.A., M.A., Ph.D., Florida State University, 1994.
- CHARLES R. BARTON, Director of Nurse Anesthesia Track (July 1995) B.A., Malone College; M.Ed., Ashland College, 1992.
- CELAL BATUR, Department Chair of Mechanical Engineering, Professor of Mechanical Engineering (February 1980) B.S., M.S., The Technical University of Istanbul; Ph.D., The University of Leicester, 1976.
- GARY A. BAYS, Associate Professor of English (Wayne College) (1986) B.S., M.A., Central Michigan University, 1984.
- JANET P. BEAN, Assistant Professor of English (1998) M.A., University of New Hampshire; B.A., Ph.D., University of North Carolina, 1998.
- NANCY BEATTY, Assistant Women's Basketball Coech (1997) B.A., Kent State University, 1988.
 THOMAS G. BECK, General Manager of WZIP-FM; Adjunct Assistant Professor of Communication (June 1978) B.S., Slippery Rock State College; M.A., Ohio University, 1975.
- (June 1978) B.S., Slippery Rock State College; M.A., Ohio University, 1975. JULIA BECKETT, Assistant Professor of Public Administration and Urban Studies (1997) B.A., J.D.,
- Washington University; M.A., Ph.D., University of Colorado, 1995. CHERYL LEE BECKWITH, Coordinator of Continuing Education (2000) B.A., Kent State University, 1999.
- CAROLYN BEHRMAN, Assistant Professor of Anthropology (1998) B.A., Amherst College; M.A., Ph.D., University of Pennsylvania, 1997.
- WILLIAM H. BEISEL, Dean of Continuing Education and Evening Division; Interim Dean Community and Technical College; Fellow, Institute for Life-Span Development and Gerontology (1997) B.S. SUNY Plattsburgh; M.Ed., Ed.D. Penn State, 1987.
- THOMAS R. BEITL, Director Hardware Operations and Operating Systems Services (December 2000) B.A., Baldwin-Wallace College; M.B.A., Robert Morris College, 1989.
- SUSAN BEKE, Budget Administrator Senior (January 2001) B.S., The University of Akron, 1992.
- MARCIA CATHERINE BELCHER, Assistant Professor of Survey and Construction Engineering (1999) B.S., M.S., The University of Akron, 1997.
- KRISTINA M. BELISLE, Assistant Professor of Music (2000) B.M., University of Georgia; D.M., M.M., Michigan State University (1994).
- CHARLES C. BENEKE, Assistant Professor of Art (2001) B.A., Connecticut College; M.B.A., Kenyon College, 1996.
- RODNEY B. BENGSTON, Director of University Galleries (February 1992) B.A., Allegheny College; M.F.A., Kent State University, 1982.
- RICHARD L. BENNETT, Assistant Professor of Fire Protection (January 1999) A.A., B.S., M.P.A. M.S., The University of Akron, 1991.
- TIM A. BERENYI, Interim Head Baseball Coach (1992) B.S., The University of Akron, 1992.
- RAJADE M. BERRY, Assistant Professor of Public Administration and Urban Studies (2000) B.S., Rider College; M.A., Kean College of New Jersey; Ph.D., Rutgers University, 1999.
- MICHELE BERSANI, Assistant Director of Admissions (July 1999) B.A., M.Ed., Kent State University, 1999.
- THOMAS M. BESCH, Associate Professor of Surveying and Construction Technology; Program Director, Survey and Construction Technology (1992) A.A., University of Maryland at Baltimore; A.S., Pensacola Junior College; B.S., University of Maryland at Baltimore; M.A., The University of Akron, 1995.
- JULIA M. BEYELER, Director of Learning Support Services; Adjunct Assistant Professor of Education; Americans with Disabilities Act Coordinator, (Wayne College) (August 1988) B.S.Ed., Goshen College; M.Ed., Kent State University; Ph.D., The University of Akron, 1995.
- KIMBERLY A. BEYER, Associate Director, Counseling, Testing and Career Center-Career Placement (October 1992) B.A., M.A., Ed.D., The University of Akron, 1989.
- KARIN J. BILLIONS, Associate Professor of Communication (Wayne College) (1988) B.A., Oklahoma Baptist University; M.A., The University of Akron; Ph.D., Kent State University, 1992.
- WIESLAW K. BINIENDA, Professor of Civil Engineering (1988) M.S., Warsaw Technical University; M.S.M.E., Ph.D., Drexel University, 1988.
- ERIC R. BIRDSALL, Professor of English (June 1987) B.A., California State University; M.A., Ph.D., The Johns Hopkins University, 1976.
- DWIGHT A. BISHOP, Multi Media Project Analyst (January 1992) B.A., University of North Carolina at Chapel Hill; B.S., North Carolina State University at Raleigh; M.S., Purdue University; M.A., The University of Akron, 1997.
- ROBERT J. BISSLER, Editor Akron Magazine (May 2001) B.A., The University of Akron, 1988.
- GWENDOLYN R. BLACKSHEAR, Coordinator Health Education and Wellness (2000) B.S., M.Ed., Kent State University, 1998.
- JOHN M. BOAL, Assistant Professor of Criminal Justice (1990) A.A.S., B.S., M.S., The University of Akron, 1994.
- ALAN K. BODMAN, Professor of Music (1986) B.M., Michigan State University; M.M., University of Michigan, 1973.
- TRACEY J. BOISSEAU, Assistant Professor of History (1999) B.A., Suffolk University; M.A., Georgetown University; Ph.D., Binghamton, 1996.
 ANN D. BOLEK, Assistant Professor of Bibliography; Physical Sciences Bibliographer (1984)
- B.S.Ch.E., Purdue University; M.B.A., M.L.S., Kent State University, 1984. DALE S. BOROWIAK, Professor of Statistics (1980) B.S., M.S., The University of Akron; Ph.D.,
- Bonding Green State University, 1980. Bowling Green State University, 1980.
- ANDREW BOROWIEC, Professor of Art (1984) B.A., Haverford College; M.F.A., Yale University, 1982.

- NANCY JANE BOSE, Clinical Supervisor of Speech, Language/Pathology and Audiology (1999) B.S., Pennsylvania State University; M.A., Kent State University (1985).
- CONSTANCE B. BOUCHARD, Professor of History (August 1990) B.A., Middlebury College; M.A., Ph.D., University of Chicago, 1976.
- MARILYN K. BOWMAN, Director, Sports Medicine; Adjunct Assistant Professor, Education (1991) B.S.Ed., M.S., The University of Akron, 1987.
- MELISSA J. BOWMAN, Assistant Director of Admissions (1987) B.S., M.S., The University of Akron, 2000.
- REBEKKA BOWMAN, International Academic Advisor and Program Specialist (October 1998) B.A., Gettysburg College; M.A., The George Washington University, 1996.
- NANCY BRACHER, Associate Director of University Communications-Production Manager (October 1986) B.A., Southwestern at Memphis, 1978.
- WILLIAM T. BRANDY, Associate Professor of Speech-Language Pathology and Audiology (August 1990) A.B., Heidelberg College; M.S., University of Pittsburgh; Ph.D., University of Oklahoma, 1969.
- MINEL J. BRAUN, Professor of Mechanical Engineering (December 1978) M.S., Ph.D., Carnegie-Mellon University, 1978.
- JAMES L BRECHBILL, Associate Professor of Electronic Engineering Technology (1986) B.S.E.E., The University of Akron; B.S.E., Kent State University; M.S.T., The University of Akron, 1988.
- JEFFREY M. BREWER, Director, Athletic Communications (July 1996) B.S., Pennsylvania State University; M.B.A., Southwest Missouri State University, 1985.
- MARIE A. BRIGHT COBB, Instructor in Nursing (August 1996) B.S.N., M.S.N., The University of Akron, 1995.
- LORI A. BRINKER, Assistant Professor of Business and Office Technology (2000) A.B.A., B.S., The University of Akroon; M.A., Ashland College, 1996.
- WILLIAM J. BRITTAIN, Department Chair of Polymer Science; Professor of Polymer Science (August 1990) B.S., University of Northern Colorado; Ph.D., California Institute of Technology, 1982.
- FRANCIS S. BROADWAY, Assistant Professor Education (1997) B.A., Kalamazoo College; M.A., Eastern Michigan University, Ph.D., University of South Carolina, 1997.
- STEPHEN C. BROOKS, Associate Professor of Political Science; Associate Director of the Ray C. Bliss Institute of Applied Politics (1982) B.A., Colorado College; M.A., Ph.D., Northwestern University, 1982.
- LANCE BROUTHERS, Professor of Marketing and International Business (2001) B.S., The Ohio State University; M.A., Memphis State University; Ph.D., University of Florida, 1993.
- BRENDA J. BROWN, Accountant (March 1986) B.S., The University of Akron, 1990.
- DENISE M. BROWN, Department Budget/Fiscal Administrator (October 1984) A.A.S., B.S., M.S., The University of Akron, 1997.
- DIANE K. BROWN, Instructor in Nursing Uanuary 1997) A.A.S., Youngstown State University; B.S.N., The Ohio State University; M.S.N., Gannon College, 1992.
- ESTON L BROWN, Clinical Instructor of Family and Consumer Sciences (1975) B.S., University of Georgia; M.S., Case Western Reserve University, 1972.
- NANCY BROWN, Assistant Professor of Communication (1997) B.A., Chatham College; M.A., Northeast Louisiana University; Ph.D., Bowling Green State University, 1998.
- PHILLIP M. BROWN, Assistant to the Senior Vice President and Provost, Policy Analysis/Assessment and Planning (January 2001) B.A., Miami University; M.S., Case Western Reserve University, 1999.
- ROBERT W. BROWN, Assistant Professor of Family and Consumer Sciences (1996) B.A., Auburn University; M.A., University of Michigan, 1974.
- SHERDENE A. BROWN-SIMPSON, Director of College Student Affairs (March 1996) B.A., M.Ed., Kent State University, 1991.
- BARBARA A. BUCEY, Academic Adviser II (July 1983) B.A., M.A.Ed., The University of Akron, 1983.
- CHERYL L BUCHANAN, Assistant Professor of Nursing: Coordinator, Baccalaureate Program (1977) B.S.N., M.S.N., University of Cincinnati, 1977.
- JAMES H. BUCHANAN, Professor of Philosophy (1971) B.A., M.A., Ohio University; Ph.D., Pennsylvania State University, 1970.
- PHILP J. BUCKENMEYER, Associate Professor of Physical and Health Education; Department Chair, Sports Science and Wellness Education (January 1997) B.S., Saint Bonaventure University; M.S., Indiana State University; Ph.D., University of Maryland at College Park, 1986.
- SANDRA K. BUCKLAND, Assistant Professor of Family and Consumer Sciences (1999) B.A., M.A., The University of Akron, Ph.D., The Ohio State University, 1996.
- KATE BUDD, Assistant Professor of Art (1998) B.A., Gray's School of Art; M.F.A., Southern Illinois University at Carbondale, 1995.
- JENNIFER BUDZICK, Admissions Counselor (1999) B.A., Ohio University, 1995.
- PASCAL BUMA, Assistant Professor of English (1997) B.A., M.A., D.E.A., The University of Yaounde; Ph.D., Pennsylvania State University, 1997.
- FRAN L. BUNTMAN, Assistant Professor of Political Science (1998) B.A., University of Witwatersrand; M.A., Brandeis University; M.A., Ph.D., University of Texas-Austin, 1997.
- JULIA R. BURDGE, Associate Professor of Chemistry (1994) B.A., M.S., University of South Florida; Ph.D., University of Idaho, 1994.
- TRENT BURNER, Assistant Director of EEO and Training (1998) B.A., M.A., The University of Akron, 1997.
- CHARLOTTE L BURRELL, Associate Director of Student Financial Aid (June 1987) B.S., M.Ed., Kent State University, 1986.
- SUSAN E. BUSCH, Instructor in Nursing (1998) B.S.N., M.S.N., Case Western Reserve University, 1996.
- MARA E. BYERS, Disability Specialist (April 1999) A.S., North Central Technical Institute; B.S., M.A., Kent State University, 1998.
- CATHERINE BYRNE, Head Women's Soccer Coach (2000) B.S., Methodist Colleges; M.S., The University of Akron, 1994.
- SEAN X. CAI, Assistant Professor of Physical and Health Education (1995) B.S., Southwest China Normal University; M.Ed., Shanghai Institute of Physical Education; Ph.D., University of Arkansas, 1995.
- KYONSUKU M. CAKMAK, Associate Professor of Polymer Engineering (August 1983) B.Eng., M.Eng., Kyoto Institute of Technology; Ph.D., University of Tenressee, 1984.
- MUKERREM CAKMAK, Professor of Polymer Engineering (August 1983) B.S., Technical University of Istanbul; M.S., Ph.D., University of Tennessee, 1984.

- ANDRIENNE C. CALDERON, Director of College Administrative Services (August 1988) B.S., University of the West Indies; M.S., Virginia Polytechnic Institute and State University, 1986.
- THOMAS G. CALDERON, Professor of Accounting, Director of Quality Assessment (1988) B.S., M.S., University of the West Indies; Ph.D., Virginia Polytechnic Institute and State University, 1987.
- KIM C. CALVO, Professor of Chemistry (1984) B.A., Ph.D., The Ohio State University, 1981.
- SUSAN CALVO, Director of Academic Support, Arts and Sciences (2000) B.S., M.A., The Ohio State Univesity, 1979.
- MICHELE L CAMPBELL, Associate Director of Gardner Student Center Programs & Events (March 1993) B.S., Ashland College; M.Ed., Kent State University, 1993.
- DONALD F. CANARY, Academic Advisor II (July 1992) B.B.A., M.Ed., M.S., Kent State University, 1991.
- ROSEMARY CANNON, Assistant to the Dean in the School of Law (October 1990) B.A., The University of Akron, 1972.
- CYNTHIA CAPERS, Dean of the College of Nursing; Professor of Nursing; Fellow, Institute for Life-Span Development and Gerontology (June 1997) B.S.N., University of Maryland; M.S.N., Ph.D., University of Pennsylvania, 1986.
- RICHARD E. CAPLAN, Associate Professor of Communication (1980) B.A., Michigan State University; B.S., The University of Akron; M.A., Ph.D., Wayne State University, 1975.
- THOMAS CARANO, Accountant (March 2000) B.A., The University of Akron, 1997.
- JOAN E. CARLETTA, Assistant Professor of Electrical Engineering (1999) B.S., SUNY College at Buffalo; Ph.D., Case Western Reserve University, 1995.
- MICHAEL J. CARLEY. Director of University Press; Associate Professor of History (October 1999) B.S., George Washington University; M.A., Ph.D., Queens University, Belefast Northern Ireland, 1976.
- RUTH E. CARLSON, Instructor in Nursing (August 1990) B.S.N., M.S.N., Kent State University, 1990.FRED M. CARR, Associate Professor of Education; Director of the Center for Economic Education (October 1979) B.A., Westminster College; M.Ed., Ed.S., Ph.D., University of Florida, 1977.
- GUSTAVO ADOLFO CARRI, Assistant Professor of Polymer Science (2000) B.S., University Nancional de La Plata; M.S., Case Western Reserve University; M.S., Ph.D., University of Massachusetts-Amherst 2000.
- J. DEAN CARRO, Professor of Clinical Law; Director of Legal Clinic Offices; Dean's Club Research Professor; Staff Attorney (November 1978) B.A., State University of New York at New Paltz; J.D., The University of Akron, 1978.
- ANDREW W. CARROLL, Assistant Professor of Dance (July 1994) B.F.A., M.B.A., The University of Akron, 2000.
- JEANETTE M. CARSON, Manager, Audio-Visual Services (April 1985) B.A., M.S., The University of Akron, 1990.
- JOSEPH F. CECCIO, Professor of English (1978) B.A., Loyola College; M.A., Ph.D., University of Illinois at Urbana, 1975.
- CHIEN-CHUNG CHAN, Professor of Computer Science (1989) M.S., Ph.D., University of Kansas, 1989.
- AKHILESH CHANDRA, Associate Professor of Accounting (2001) B.A., M.A., University of Delhi, India; Ph.D., Memphis State University, 1993.
- WEI JEN CHANG, Instructor in Biology (1970) B.S., National Taiwan University; M.S., University of Toronto, 1961.
- GEORGE G. CHASE, Professor of Chemical Engineering (1983) B.S., Ph.D., The University of Akron, 1989.
- MICHAEL D. CHATHAM, Assistant Professor of Accounting and International Business (1999) B.S., M.B.A., Emporia State University, 1998.
- JANICE M. CHEBRA, Assistant Professor of Family and Consumer Sciences (2001) B.A., M.A., Kent State University; Ph.D., The Ohio State University, 1996.
- JOHN J. CHEH, Associate Professor of Accounting (1999) B.E., Hanyang University; M.B.A., University of Texas at Austin; Ph.D., University of Michigan, 1986.
- STEPHEN Z. D. CHENG. Professor of Polymer Science; Trustees Professor, Polymer Science (July 1987) B.S., East China Normal University; M.S., East China Institute of Science and Technology; Ph.D. Rensselaer Polytechnic Institute, 1985.
- IRINA CHERNIKOVA, Assistant Professor of Technical Mathematics (2000) M.S., Ph.D., Tambov Chemical Machine Design Institute, 1985.
- H. MICHAEL CHEUNG, Professor of Chemical Engineering (1984) B.S., M.S., Ph.D., Case Western Reserve University, 1985.
- SHEAU-HUEY CHIU, Instructor in Nursing (January 2001) B.S.N., M.S.N., Arizona State University, 1997
- DIANA A. CHLEBEK, Associate Professor of Bibliography; Fine Arts, Language, and Literature Bibliographer (November 1987) B.A., M.A., University of Toronto; M.A., University of Chicago; M.A., Ph.D., Comell University, 1984.
- BETH B. CHONKO, Assistant Director, Counseling, Testing and Career Center-Placement (1999) B.S., M.S., Ed.D., The University of Akron, 1998.
- FRED KAT-CHUNG CHOY, Professor of Mechanical Engineering (1983) B.S.C.E., National Taiwan University; M.S.C.E., Ph.D., University of Virginia, 1977; P.E.
- STEVEN S. CHUANG, Professor of Chemical Engineering; Department Chair of Chemical Engineering (1986) M.S., New Jersey Institute of Technology; Ph.D., University of Pittsburgh, 1985.
- HENRIKO V. CHUNG, Assistant Athletic Director, Facilities and Operations (1996) B.S., Tulane University of Louisiana, 1992.
- LINDGREN L CHYI, Professor of Geology (1978) B.Sc., National Taiwan University; M.Sc., Ph.D., McMaster University, 1972.
- CHARLES D. CLARK, Director, Corporate and Government Relations (October 2000) B.S., Georgetown University, 1959.
- KATHLEEN DIANA CLARK, Assistant Professor of Communication (1998) B.A., M.A., University of Washington; Ph.D., The Ohio State University, 1995.
- NORRIS B. CLARK, III, Associate Professor of English (1987) B.A., Colgate University; M.L.S., Wesleyan University; Ph.D., Cornell University, 1980.
- SUSAN G. CLARK, Assistant Professor of Education (1996) B.S., Miami University; M.Ed., Xavier University, Ph.D., Kent State University, 1997.
- WILLIAM CLARK, Research Analyst (Wayne) (January 1998) B.S., University of Washington; M.A., Kent State University, 1993.

- CURTIS B. CLEMONS, Associate Professor of Applied Mathematics (August 1990) B.S., Ashland College: M.A., Miami University; Ph.D., University of Maryland at College Park, 1990.
- JUDY M. CODREA, Accountant (October 1999) B.A., Otterbein College; M.S., Kent State University, 1999.
- DAVID B. COHEN, Assistant Professor of Political Science (2000) B.A., University of Wisconsin-Madison; M.A., University of Tennessee; Ph.D., University of South Carolina, 2000.
- RICHARD C. COHEN, Associate Professor of Law; Director of the Legal Writing Program (July 1983) B.A., Emory University; J.D., University of Connecticut, 1975.
- DANA COLE, Associate Professor of Law (1997) B.S., University of Cincinnati; J.D., University of Dayton, 1986.
- MALINA COLEMAN, Associate Dean, School of Law; Associate Professor of Law (August 1989) B.S., Central State University; J.D., Yale University, 1985.
- NIKIA L. COLLINS, Assistant Director of Admissions (July 2000) B.S., The University of Akron, 1998.
- SCOTT COLLINS, Professor of Polymer Science (2000) B.S., Ph.D., University of Calgary, 1983. SUSAN G. COLVILLE-HALL, Associate Professor of Education (1989) B.S., M.A., Ph.D., The Ohio
- State University, 1983. **KEVIN CONCANNON**, Assistant Professor of Art (2001) B.A., University of Massachusetts; Ph.D., Virginia Common Wealth University, 2000.
- LAURA CONLEY, Academic Advisor II (1981) B.S., M.S., The University of Akron, 1982.
- EDWARD J. CONRAD, Associate Professor of Accounting (1991) B.S., The University of Akron; Ph.D., Florida State University, 1991.
- AMY LIKALA CONVII, Learning Disabilities Specialist (June 1999) B.A., The Ohio State University; M.Ed., George Mason University, 1998.
- LOUISE R. COOK, Instructor in Nursing (1990) A.S., Corning Community College; B.S., State University of New York at Binghamton; M.S.N., Case Western Reserve University, 1977.
- M. CELESTE COOK, Associate General Counsel (1997) B.A., J.D., The University of Akron, 1987.
- DENISE N. COOL, Assistant Director of Purchasing (February 1989) A.B.M., The University of Akron, 1985.
- DUANE COVRIG, Assistant Professor of Education (1999) B.A., Weimar College; M.A., Loma Linda University, Ph.D., University of California, 1999.
- G. JEAN COWSER, Academic Adviser II (January 1987) B.S., Wilberforce University; M.Ed., Kent State University, 1972.
- RAYMOND W. COX III, Professor of Public Administration and Urban Studies; Department Chair, Public Administration and Urban Studies; Fellow, Institute for Life-Span Development and Gerontology (July 2000) B.A., Northeastern Unversity; M.S. Suffolk University; Ph.D., Virginia State College, 1983.
- SANDRA C. COYNER, Assistant Professor of Education (June 1994) A.A., Cuyahoga Community College; B.A., Cleveland State University; M.B.A., Baldwin-Wallace College; M.Ed., Ed.D., The University of Akron, 1992.
- THOMAS PATRICK CREAMER, Immigration Program Specialist (July 2000) B.A., Walsh College, 1998.
- ROGER B. CREEL, Dean of the Buchtel College of Arts and Sciences; Professor of Physics; Professor of Chemistry (1970) B.A., Kalamazoo College; Ph.D., Iowa State University, 1969.
- RENEE L. CROSKEY, Assistant Professor of Office Administration (2000) B.S., M.Ed., Kent State University, 1983.
- JAMES R. CROWE, Slide Librarian (July 1988) B.F.A., Youngstown State University; M.A., Cleveland State University; M.L.S., Kent State University, 1992.
- LINDA F. CROWELL, Assistant Professor of Social Work (1996) B.S., Knoxville College; M.S., Ph.D., Case Western Reserve University, 1995.
- RONN T. CUMMINGS, Assistant Professor of Music; Director of Orchestra (2000) B.M., University of Wisconsin, M.M., Southern Methodist University, DMA, University of North Texas College of Music, 1997.
- CHRISTINE CURRY, Public Relations Representative (1997) B.A., M.A., The University of Akron, 1992.
- COLLEEN CURRY, Assistant Dean of University College (July 1990) B.A. Temple University; M.A., The University of Akron, 1991.
- THEODORE CURTIS, Vice President, Capital Planning and Facilities Management, (1998) B.S., Kent State University, 1959.
- TERESA J. CUTRIGHT, Associate Professor of Civil Engineering (1994) B.S., M.S., Ph.D., The University of Akron, 1994.
- DANIEL L DAHL, Executive Director of the Performing Arts Hall; Campus Special Performance Coordinator (February 1991) B.B.A., University of Wisconsin at Whitewater; M.A., University of Wisconsin at Madison, 1987.
- MICHAEL F. D'AMICO, Professor of Marketing (1972) B.S., Georgetown University; M.B.A., Rutgers University; D.B.A., Texas Technical University, 1975.
- ENOCH DAMSON, Assistant Professof of Computer Information Systems (1999) B.B.A., M.S., Andrews University, 1999.
- RICHARD A. DANALS, Director, Gardner Student Center (1998) B.S., The University of Akron; M.A., Kent State University, 1988.
- XUAN-HEN THI DANG, Assistant Professor of Computer Science (2000) B.S., M.S., The University of Pierre et Marie Curie; Ph.D., The University of Akron, 2000.
- ISIAH DANIELS, III, Contract Compliance Officer (December 1982) B.A., J.D., The University of Akron, 1976.
- HELEN C. DANNEMILLER, Assistant Professor of Nursing (1988) B.S.N., M.S.N., The University of Akron, Ph.D., Wayne State University, 1988.
- PAUL A. DAUM, Professor of Theatre Arts (1965) B.F.A., Wesleyan College; M.A., The University of Akron; Ph.D., The Ohio State University, 1973.
- VICTOR DAVILA, Assistant Professor of Marketing and International Business (1999) B.B.A., Pan American University; Ph.D., University of Texas – Pan American, 2000.
- BRIAN E. DAVIS, Assistant Vice President for Business and Finance (January 1985) B.S., M.S., The University of Akron, 1991.
- KATHLEEN M. DAVIS, Assistant Professor of Dance (1977) B.A., M.S., The University of Akron, 1986.
- KIRK H. DAVIS, Assistant Strength and Conditioning Coach (1998) B.S., The University of Akron, 1998.

- RUSSELL K. DAVIS, III, Associate Professor of Business Management Technology; Associate Professor of Real Estate (1971) B.S.B.A., M.A., Wayne State University; Ed.D., The University of Akron, 1978.
- JOSE ALEXIS De ABREU-GARCIA, Professor of Electrical Engineering (1987) B.Sc., Ph.D., Queen's University at Kingston, 1986.
- DEBRA L. DEANE, Director of English Language Institute; Instructor in the English Language Institute (1981) B.A., Albion College; M.A., University of Michigan, 1977.
- LUCINDA MARIE DEASON, Assistant Professor of Public Administration and Urban Studies; Fellow, Institute for Life Span Development and Gerontology (2000) B.S., Wayne State University; M.A., University of Michigan-Dearborn; Ph.D., Michigan State University, 2000.
- AMIEE DeCHAMBEAU, Assistant Professor of Bibliography (1997) B.A., Clarion University; M.L.S., C.A.S., University of Pittsburgh, 1994.
- DANIEL C. DECKLER, Associate Professor of Engineering (Wayne College) (1991) B.S., Ohio Northern University; M.S., The University of Akron, 1990.
- PARIZAD T. DEJBORD-SAWAN, Associate Professor of Modern Languages (1980) B.S., M.A., The University of Akron; Ph.D., University of Michigan, 1994.
- JOSEFINA P. de los REYES, Assistant Professor of Statistics (1985) B.S., M.S., University of the Philippines; M.S., Cleveland State University; Ph.D., Case Western Reserve University, 1985.
- CHRISTINA A. DePAUL, Professor of Art; Director of the School of Art (1986) B.F.A., Carnegie-Mellon University; M.F.A., Temple University, 1984.
- ROBERTA A. DePOMPEI, Professor of Speech-Language Pathology and Audiology; Clinical Supervisor in Speech-Language Pathology and Audiology (January 1983) B.S.Ed., M.A., Kent State University; Ph.D., The University of Akron, 1991.
- SHANNON DERMER, Assistant Professor of Education (1998) B.S., M.S., Illinois State University, Ph.D., Kansas State University, 1998.
- CAROLYN DESSIN, Associate Professor of Law (1999) B.S., Temple University; M.A., Westminister Choir College; J.D., Villanova University School of Law, 1987.
- ALI DHINOJWALA, Assistant Professor of Polymer Science (1997) Ph.D., Northwestern University, 1994.
- KAREN E. DICKERSON, Senior Assistant Director of Admissions (July 2000) B.A., Concordia College at Moorhead; M.S., Miami University, 1990.00
- JILL L DICKIE, Assistant Professor of Community Services Technology (1996) B.A., University of Pittsburgh; M.S.S.A., Case Western Reserve University; M.P.A., Kent State University, 1995.
- GREGORY S. DIERINGER, Assistant Director of Admissions (1995) B.A., M.Ed., The University of Akron, 1999.
- JOETTE DIGNAN WEIR, Editor, University Communications (January 1991) B.S, Bowling Green State University, 1975.
- JEFFREY C. DILTS, Associate Professor of Marketing; Fitzgerald Institute Fellow, Entrepreneurship (1983) B.A., University of Missouri at Columbia; M.A., Northwest Missouri State University; Ph.D., Oklahorna State University, 1983.
- MARGUERITE A. DIMARCO, Instructor in Nursing (1997) B.S.N., The Ohio State University; M.S.N., The University of Akron, 1993.
- SUSAN DIRENZO, Project Manager, Digital Library Information Systems; Assistant Professor of Bibliography (December 1998) B.A., Cleveland State University; M.L.S., University of Pittsburgh, 1995.
- GEORGE L DISABATO, Professor of Art (1981) B.F.A., The Ohio State University; M.A., University of Louisville, 1964.
- MELANEY A. DITCHEY, Assistant Professor of Surgical Assisting Technology; Program Director, Surgical Assisting Technology (1995) A.A., B.S., Youngstown State University, 1995.
- JAMES J. DIVOKY, Professor of Management; Assistant Dean and Director, Graduate Business Programs (1983) B.B.A., M.B.A., D.B.A., Kent State University, 1984.
- FRANCOIS K. DOAMEKPOR, Associate Professor of Public Administration and Urban Studies (1991) B.A., University of Cape Coast of Ghana; M.B.A., Ball State University; Ph.D., University of Pittsburgh, 1989.
- DIANE L DOLL, Budget Administrator (March 2001) B.A., Walsh College; M.B.A., Ashland College, 1992.
- MICHAEL D. DONNELLY, Personal Computer and Network Specialist Leader (December 1984) A.A.B., B.A., The University of Akron, 1989.
- BRIAN DONOHER, Assistant Men's Basketball Coach (April 2000) B.S., University of Dayton, 1992.
- DENNIS DOVERSPIKE, Professor of Psychology; Fellow, Institute for Life-Span Development and Gerontology (1984) B.S., John Carroll University; M.S., University of Wisconsin at Oshkosh; Ph.D., The University of Akron, 1983.
- THERESA M. DOWD, Associate Professor of Nursing; Fellow, Institute for Life-Span Development and Gerontology (1994) B.S.N., St. Louis University; M.S., University of Minneapolis at St. Paul; Ph.D., Wayne State University, 1994.
- DOUGLAS M. DRAHER, Senior Budget Administrator (March 1988) B.S., The University of Akron, 1987.
- BRETT A. DRAPER, Assistant Athletic Trainer (November 1993) B.S., Ball State University; M.Ed., University of Cincinnati, 1990.
- RICHARD A. DRAPER, Data Base Services Manager (February 1986) B.A., Otterbein College, 1977.
- JAY DRATLER JR., Professor of Law; Holder, Goodyear Chair in Intellectual Property; Intellectual Property Center Fellow (1999) A.B., University of California; M.S., Ph.D., The University of California-San Diego; J.D., Harvard University, 1978.
- JULIE DREW, Assistant Professor of English (1997) B.A., M.A., Ph.D., University of South Florida, 1997.
- JERRY E. DRUMMOND, Associate Professor of Mechanical Engineering (1981) B.S.M.E., General Motors Institute; M.S.M.E., The University of Akron; Ph.D., The Ohio State University, 1981; P.E., Ohio.
- ZHONG-HUI DUAN, Assistant Professor of Computer Science (2001) B.S., Chengdu Institute of Technology; M.S., Chinese Academy of Geological Science; M.S., Ph.D., Glorida State University, 1997.
- KATHY D. DuBOSE, Coordinator, UA Computer Lab Services (October 1984) B.S., M.B.A., The University of Akron, 1989.
- HOWARD M. DuCHARME JR., Professor of Philosophy; Department Chair of Philosophy (1986) B.A., Hope College; M.A., Trinity Divinity School; Ph.D., Oxford University, 1984.
- VENKAT REDDY DUDIPALA, NMR Lab Manager of Chemistry (October 1999) B.S., Kakatiya University; M.S., Osmania University; Ph.D., Indian Institute of Chemical Technology.

- ROBERT J. DUFF, Assistant Professor of Biology (1999) B.S., Calvin College; M.S., Ph.D., University of Tennessee at Knoxville, 1995
- TIMOTHY R. DuFORE, Associate Vice President for Research and University Development-Development; Executive Director of The University of Akron Foundation (February 1984) B.A., Westminster College; M.A., Bowling Green State University, 1977.
- J. THOMAS DUKES, Professor of English (1984) B.A., M.A., University of Texas at El Paso; Ph.D., Purdue University, 1984.
- KENNETH A. DUNNING, Professor of Management and Information Systems; Fitzgerald Institute Fellow, Entrepreneurship (1973) B.S.E.E., North Carolina State University at Raleigh; M.B.A., Ph.D., University of Pittsburgh, 1972.
- STEVE DUNPHY, Assistant Professor of Management; Fitzgerald Institute Fellow, Entrepreneurship (1997) B.A., Hampshire College; M.B.A., University of Pennsylvania; Ph.D., Indiana University, 1990.
- ROGER W. DURBIN, Associate Dean of University Libraries; Professor of Bibliography; Head, Collection Management Department (January 1978) B.A., M.A., Youngstown State University; M.L.S., Ph.D., Kent State University, 1985.
- JOHN DURKIN, Associate Professor of Electrical Engineering (1987) A.E.T., B.S.E.E., Pennsylvania State University; M.S.E.E., Ph.D.E.E., University of Pittsburgh, 1983.
- DAVID R. DURST, Professor of Finance (1968) B.S.B.A., Kent State University; M.B.A., D.B.A., Georgia State University, 1972.
- ASHOK K. DUTT, Professor of Geography and Planning; Professor of Urban Studies (1968) B.A., M.A., M.A., Ph.D., Patna University (India), 1961.
- STEVEN R. DUVALL, Assistant Law Librarian Technical Services (June 2000) B.A., University of Florida; M.A., University of South Florida, 1992.
- PAUL A. EASTERLING, Coordinator of Academic Programs (October 1991) B.A., The University of Akron, 1991.
- JOHN W. EDGERTON, Professor of Electronic Technology (January 1984) B.S., Cornell University; M.S., Purdue University, 1972.
- HENRY EFEBERA, Assistant Professor of Accounting (1999) B.S., University of Ibadan; M.B.A., Texas Southern University; M.S., Georgia State University; Ph.D., University of South Florida, 1999.
- JAMES J. EGAN, Professor of English; Director, Careers Program (1971) B.A., St. Joseph's College; M.A., Ph.D., University of Notre Dame, 1971.
- RICHARD L. EINSPORN, Associate Professor of Statistics (1987) B.S., Indiana University of Pennsylvania; M.A., M.A., The Pennsylvania State University; Ph.D., Virginia Polytechnic Institute, 1987.
- MALIK E. ELBULUK, Professor of Electrical Engineering (1989) B.Sc., University of Khartoum; M.S.E.E., D.Sc., Massachusetts Institute of Technology, 1986.
- JANICE L. ELEY, Professor of Hospitality Management (1976) B.A., Manchester College; M.A., Indiana University, 1974.
- ROBERT K. ELEY, Associate Professor of Education; Assistant Dean for Initial Programs (1975) B.S.Ed., M.S.Ed., Ball State University; Ed.D., Indiana University, 1975.
- J. RICHARD ELLIOTT JR., Professor of Chemical Engineering (January 1986) B.S., Christopher Newport College; M.S., Virginia Polytechnic Institute and State University; Ph.D., Pennsylvania State University, 1985.
- MICHELLE ELLIS, Associate Director of Student Financial Aid (November 1983) A.A., B.S., M.A., The University of Akron, 1992.
- CHERYL S. ELMAN, Associate Professor of Sociology; Fellow, Institute for Life-Span Development and Gerontology (1995) A.A.S., State University of New York; B.A., Syracuse University; M.A., Ph.D., University of North Carolina at Chapel Hill, 1993.
- DANIEL L ELY, Professor of Biology; Fellow, Institute for Life-Span Development and Gerontology (1976) B.A., M.S., Ph.D., University of Southern California, 1971.
- JAMES R. EMORE, Assistant Dean and Director of Undergraduate Business Programs; Associate Professor of Accounting (1973) B.A.Ed., M.S.Acct., The University of Akron; D.B.A., Kent State University, 1984.
- KATHLEEN L ENDRES, Professor of Communication; Director, Women's Studies (1987) B.A., M.A., University of Maryland; Ph.D., Kent State University, 1985.
- ELIZABETH B. ERICKSON, Associate Professor of Economics (1969) B.S., M.S., University of Western Australia; Ph.D., University of Illinois, 1972.
- REBECCA J. ERICKSON, Associate Professor of Sociology (1991) B.A., Indiana University; M.A., Ph.D., Washington State University, 1991.
- RICHARD A. EROSHEVICH, Assistant Athletic Trainer (April 1996) B.A., M.A., The University of Akron, 1995.
- MATTHEW P. ESPE, Assistant Professor of Chemistry (January 1997) B.S., M.S., Illinois State University; Ph.D., Michigan State University, 1993.
- JOHN CHRISTOPHER EUSTIS, Professor of Modern Languages, Chair of the Department of Modern Languages (2000) B.A., Brown University; M.S. Middlebury College; Ph.D., Indiana University, 1977.
- EDWARD A. EVANS, Assistant Professor of Chemical Engineering (1997) B.A., Dartmouth College; M.S., Ph.D., Case Western Reserve University, 1998.
- WALTER L. EVEGE JR., Staff Equal Employment Opportunity Officer (July 1988) B.S., Tougaloo College, 1964.
- THOMAS L. FAESSEL, Associate Director of Residence Life Activities (November 1983) B.A., Bowling Green State University; M.A., Ball State University, 1978.
- GJAZI FALAH, Associate Professor of Gegraphy and Planning (2001) B.A., M.A., Hebrew University, Jerusalem; Ph.D., University of Durham, 1982.
- R. FRANK FALK, Professor of Sociology; Fellow, Institute for Life-Span Development and Gerontology (1989) A.A., Oakland City College; B.A., M.A., San Francisco State University; Ph.D., University of Minnesota, 1969.
- J. CLAYTON FANT, Associate Professor of Classical Studies; Associate Professor of History (1984) B.A., Williams College; Ph.D., University of Michigan, 1976.
- GERALDINE FARIA, Professor of Social Work (1987) B.A., Rhode Island College; M.S.W., University of Connecticut; Ph.D., University of Denver, 1980.
- RICK FARMER, Assistant Professor of Political Science; Fellow, Ray C.Bliss Institute of Applied Politics (1998) B.A., Ph.D., Northern Oklehoma College, 1998.
- ZARREEN FAROOOI, Assistant Professor of Computer Information Systems (1999) M.S., Ph.D., Oregon State University, 1987.

- DIANE FASHINPAUR, Director, Health Services (September 1998) B.S.N., St. John College; M.S.N., The University of Akron, 1995.
- JAMAL FEERASTA, Assistant Professor of Hospitality Management (2000) B.A., University of Karachi; B.S., M.S., Florida International University, 1981.
- KEVIN M. FELDT, Assistant Professor of Marketing and Sales Technology (1998) B.B.A., Cleveland State University; M.B.A., Case Western Reserve, 1992.
- KATHRYN M. FELTEY, Associate Professor of Sociology (January 1988) B.A., M.A., Wright State University; Ph.D., The Ohio State University, 1988.
- RUDY FENWICK, Associate Professor of Sociology (1978) B.A., University of Oklahoma; M.A., McGill University; Ph.D., Duke University, 1978.
- KIM R. FERGUSON, Coordinator, Cooperative Education; Assistant Director, Career Placement Services (July 1998) B.A., Ashland College; M.A., The University of Akron, 1993.
- LUKE FICKELL, Assistant Football Coach (March 2000) B.S., The Ohio State University, 1997.
- CAROL A. FICKEN, Coordinator of Library Acquistions (1985) B.S., The University of Akron, 1991.
- ROBERT A. FIGLER, Associate Professor of Management (1985) B.A., Indiana University of Pennsylvania; M.A., Ph.D., West Virginia University, 1984.
- LAURI S. FILE, Director, Admissions and Financial Assistance, Law; Assistant to the Dean, School of Law (November 1983) B.A., The University of Akron, 1993.
- TODD FINKLE, Associate Professor of Management; Fitzgerald Institute Fellow, Entrepreneurship; Intellectual Property Center Fellow (1997) B.S., D.O.C., University of Nebraska; M.B.A., University of Wisconsin, 1993.
- ANN R. FISCHER, Associate Professor of Psychology (1995) B.A., Ball State University; M.A., Ph.D., University of Missouri at Columbia, 1995.
- ELAINE M. FISHER, Assistant Professor of Nursing (1986) B.S.N., The University of Akron; M.S.N., Kent State University, 1985.
- VIRGINIA L FITCH, Professor of Social Work; Director, School of Social Work; Fellow, Institute for Life-Span Development and Gerontology (1981) B.S., East Tennessee State University; M.S.W., University of Hawaii; Ph.D., Case Western Reserve University, 1982.
- CHAD A. FLANDERS, Assistant Men's Soccer Coach (July 2000) B.S., Illinois State University, M.S., Eastern Illinois University, 1996.
- CAROL A. FLEXER, Professor of Speech-Language Pathology and Audiology (1982) B.A., Metropolitan State College; M.A., University of Denver; Ph.D., Kent State University, 1982.
- JOSEPH FOLEY, Instructor in Nursing (1987) B.S.N., M.S.N., The University of Akron, 1990. ANNABELLE M. FOOS, Professor of Geology (1984) B.A., State University of New York at Potsdam;
- Ph.D., University of Texas at Dallas, 1984.
 BRJGIE A. FORD, Professor of Education (1987) B.S., M.S., Eastern Illinois University, Ph.D., Purdue
- University, 1983.
- ANTONIA M. FORSTER, Professor of English (1986) B.A., M.A., Flinders University; Ph.D., University of Melbourne, 1986.
- HAROLD M. FOSTER, Professor of Education (1976) B.A., Indiana University of Pennsylvania; M.A., University of Pittsburgh; Ph.D., University of Michigan, 1976.
- MARK D. FOSTER, Professor of Polymer Science (November 1990) B.S., Washington University; Ph.D., University of Minnesota at Minneapolis, 1987.
- ALICE FOTHERGILL, Assistant Professor of Sociology (2001) B.A., University of Vermont, 1989.
- SHAANETTE M. FOWLER, Director of the College of Business Student Affairs; Fitzgerald Institute Adjunct Fellow, Entrepreneurship (March 1982) B.A., Mount Union College; M.A., The University of Akron, 1991.
- ANTHONY FOX, Head Women's Tennis Coach (October 1999) B.A., M.A., Northern Illinois University, 1993.
- H. DONALD FOX JR., University Registrar (October 2000) B.S., M.A., Indiana University of Pennsylvania; Ph.D., West Virginia University, 1975.
- JAMES D. FRAMPTON, Professor of Drafting and Computer Drafting Technology; Department Chair, Engineering and Science Technology (1989) B.S., M.A., The Ohio State University, 1988.
- WILLIAM A. FRANCIS, Associate Dean of Arts and Sciences; Professor of English (1966) B.A., M.A., Duquesne University; Ph.D., Case Western Reserve University, 1975.
- GARY B. FRANK, Professor of Accounting (January 1985) B.A., University of Minnesota; M.A., Ph.D., M.S., University of Illinois, 1984
- SUSAN THOMAS FRANK, Director, Audiology and Speech Center, Assistant Professor of Speech Language Pathology and Audiology (1998) B.A., Marshall University; M.A., The George Washington University, 1977.
- JEFFREY A. FRANKS, Assistant Professor of Bibliography; Head of Reference Department (November 1995) B.A., The University of Akron; M.L.S., Kent State University, 1983.
- KAREN D. FRANKS, Director of Small Business Development Center & Counselor (May 1997) B.S., Kent State University, 1993.
- LAUCHLAN H. FRASER, Assistant Professor of Biology (1999) B.S. M.S., University of British Columbia; Ph.D., University of Sheffield, 1996.
- LA VERNE M. FRIBERG, Associate Professor of Geology (March 1976) B.S., University of Wisconsin; M.A., Ph.D., Indiana University at Bloomington, 1976.
- ROBERT L. FRITZ JR., Assistant Director of Gardner Student Center (June 1976) B.S., The University of Akron, 1976.
- JOHN L. FROLA, Associate Professor of Biology (1971) B.S., Waynesburg College; M.S., Ph.D., West Virginia University, 1970.
- THOMAS G. FURLAN, Disability Specialist (2001) B.A., Saint Ambrose College, 1998.
- NICOLE M. GAFFNEY, Courseware Trainer (January 1996) B.S., The University of Akron, 1992.
- SALLY M. GAMAUF, Director, Office of Accessibility; Psychologist; Americans with Disabilities Act Coordinator for Students (1981) B.S., Indiana University; M.S., Ph.D., The University of Akron, 1979.
- JULIA A. GAMMON, Associate Professor of Bibliography; Head of Acquisitions Department; Marketing Manager for University of Akron Press (August 1973) B.A., University of Florida; M.S.L.S., University of Pittsburgh, 1967.
- XIAOSHENG GAO, Assistant Professor of Mechanical Engineering (January 2001) B.S., M.S., Xi'an Jiaotong University; M.S., Ph.D., Brown University, 1997.
- GAIL E. GARBRANDT, Coordinator of Internships in Political Science (May 2000) B.A., Kent State University; M.A., The University of Akron, 1995.
- PAMELA G. GARN-NUNN, Professor of Speech-Language Pathology and Audiology (1996) B.S., Ohio University; M.S., Ph.D. Southern Illinois University at Carbondale, 1982.

- GASPER A. GAROFALO, Professor of Economics; Intellectual Property Center Fellow (1979) B.A., St. Vincent College; M.A., Ph.D., University of Pittsburgh, 1974.
- THOMAS A. GAYLORD, Vice President of Information and Instructional Technologies, Library and Institutional Programming; Adjunct Professor of Education; Adjunct Professor of Statistics (February 2000) B.S., University of Alaska-Anchorage; M.S., Ph.D., University of Florida, 1980.
- R. RAY GEHANI, Assistant Professor of Management and International Business; Fitzgerald Institute Fellow, Entrepreneurship; Intellectual Property Center Fellow (1997) B.T., M.S., Indian Institute of Technology; Ph.D., Tokyo Institute of Technology, 1981.
- KAREN R. GEHRLING, Associate Professor of Nursing; Coordinator, Education Progression Programs (1989) B.S.N., Ohio University; M.N., University of Pittsburgh; Ph.D., University of North Caroline-Greensboro, 1988.
- DOUGLAS W. GEISER, Video Coordinator of Athletics Department (1996) B.A., Cornell University, 1992.
- LAURA D. GELFAND, Assistant Professor of Art (1997) B.A., State University of New York at Stony Brook; M.A., Ph.D., Case Western Reserve University, 1994.
- BERNADETTE B. GENETIN, Assistant Professor of Law (1997) B.A., University of Notre Dame; J.D., The Ohio State University, 1988.
- KIMBERLY A. GENTILE, Interim Director of Admissions; Associate Director of Admissions-Outreach (May 1995) B.A., The University of Akron, 1991.
- ARTHUR V. GEORGE, Associate Professor of Transportation (1979) B.B.A., City College of New York; M.B.A., Iona College, 1972.
- THEODORE N. GEORGIADIS, Research Microscopist (February 1993) B.S., University of Athens; M.S., Harvard University; Ph.D., McGill University (Canada), 1970.
- SUCHARITA GHOSH, Assistant Professor of Economics (August 1992) B.A., University of Bornbay, India; M.A., Ph.D, University of Kansas, 1993.
- GEORGE C. GIAKOS, Associate Professor of Biomedical Engineering (1994) B.A., University of Turin; M.S., University of Edinburgh; M.S., Ohio University; Ph.D., Marquette University, 1991.
- ANN L. GIBSON, Assistant Professor of Education (2000) B.A., Albertus Magnus College; M.B.A., M.S., Ph.D., University of New Mexico, 2000.
- REBECCA L. GIBSON, Assistant Professor of Medical Assisting Technology; Program Director, Medical Assisting Technology (1994) B.S., M.S., The University of Akron, 1995.
- TIFFANY GIBSON, Assistant Academic Advisor for Student Athletes (October 1999) M.E.D., Centenary College, 1999.
- WILLA E. GIBSON, Associate Professor of Law; Intellectual Property Center Fellow (1995) B.A., Tulane University; J.D., Drake University, 1991.
- KELLY C. GIENGER, Academic Adviser II (July 2000) B.S., M.Ed., Ohio University, 2000.
- CAROL C. GIGLIOTTI, Assistant Dean of the Community and Technical College; Professor of Office Administration (1981) A.A.S., Becker Junior College; B.S.Ed., M.S.Ed., Ph.D., The University of Akron, 1994.
- KRISTINE M. GILL, Associate Professor of Nursing (1976) B.S.N., St. John College, Cleveland; M.Ed., Cleveland State University; M.S.N., Ph.D., The University of Akron, 1985; R.N.
- YVONNE M. GILLETTE, Associate Professor of Speech-Language Pathology and Audiology (August 1990) B.Ed. University of Toledo; M.A., Ph.D., The Ohio State University, 1990.
- AMY GILLIAND, Director, Office of Resource Analysis and Budget (1998) B.B.A., Kent State University, 1985.
- GREG GILLUM, Assistant Football Coach (August 1995) B.S., M.A., University of Dayton, 1992.
- LAWRENCE GILPATRIC, Associate Professor of Hospitality Management (1995) A.S., Manchester Community College; B.S., M.S., Central Connecticut State College, 1991.
- GABRIEL F. GIRALT, Associate Professor of Communication (1989) B.S., Xavier University, M.F.A., Ohio University, 1989.
- RONALD E. GIRARD, Instructor in Accounting (1998) B.S., Northwestern State University; M.S.Ed., Troy State University; B.A., M.A.University of South Florida, 1986.
- RENE GLANVILLE, Assistant Professor of Nursing (1982) B.S.N., The Ohio State University; M.S.N., Ph.D., The University of Akron, 1992.
- LLOYD A. GOETTLER, Professor of Polymer Engineering; Chair, Department of Polymer Engineering (July 2000) B.Ch.E., Comell University; Ph.D., University of Delaware, 1967.
- LATHARDUS GOGGINS, Associate Dean of the Graduate School; Professor of Geography and Planning (1969) B.A., Central State University; M.A., The Ohio State University; Ph.D., St. John's University; Ed.D., M.S.T.E., The University of Akron, 1984.
- LATHARDUS GOGGINS II, Assistant Director, Upward Bound Programs (March 1999) B.A., The University of Akron; M.A., Kent State University,1996.
- DOLLI QUATTROCCHI GOLD, Assistant to the Vice President for Research and Dean of the Graduate School (October 1982) B.A., M.A.Ed., The University of Akron, 1999.
- DMITRY GOLOVATY, Assistant Professor of Applied Methematics (2000) B.S., Institute of Steel and Alloys; M.S., Ph.D., Camegie Mellon University, 1995.
 LESLEY J. GORDON, Associate Professor of History (1998) A.B., The College of William and Mary;
- M.A., Ph.D., The University of Georgia, 1995.
- SAMUEL GORDON, Professor of Music; Director of Choral Studies (July 1994) B.S., University of Pennsylvania; M.M., Ph.D., Indiana University, 1972.
- MICHAEL F. GRAHAM, Associate Professor of History; Course Director, Humanities in the Western Tradition (1995) B.A., M.A., Ph.D., University of Virginia, 1993.
- NANCY K. GRANT, Professor of Public Administration and Urban Studies; Fellow, Institute for Life-Span Development and Gerontology (1983) B.A., University of Dallas; M.A., Ph.D., The University of Texas, 1982.
- MARY JANE GREBENC, Compensation Analyst (April 1998) B.B.A. Cleveland State University, 1989. JOHN C. GREEN, Professor of Political Science; Director of the Ray C. Bliss Institute of Applied
- Politics (1997) B.A., University of Colorado; Ph.D., Cornell University, 1983. KRISTI L GREEN Clinical Instructor English and Control University, 1983.
- KRISTI L. GREEN, Clinical Instructor, Family and Consumer Sciences (2000) B.A., M.A., Keamey State College, 1994.
- MARY LU GRIBSCHAW, Associate Athletic Director; Senior Woman Administrator (July 1995) B.S.B.A., Robert Morris College; M.S., Old Dominion University, 1993.
- LAURA K. GROSS, Assistant Professor of Applied Methematics (1997) B.A., Yele University; M.S., Ph.D., Rensselaer Polytechnic Institute, 1997. BICHARD L COOSS Associate Disference Official Association (1997)
- RICHARD J. GROSS, Associate Professor of Mechanical Engineering (1967) B.S.M.E., University of Pittsburgh; M.S.M.E., Ph.D., Carnegie Institute of Technology, 1967; P.E., Ohio. JAMES F. GROVER Associate Professor of Control of Con
- JAMES E. GROVER, Associate Professor of Electrical Engineering (1979) B.S., Ohio Northern University; M.S., Ph.D., Ohio University, 1981.

- DOROTHY D. GRUICH, Senior Archives Associate (1998) B.S., The University of Akron, 1991.
- WILLIAM K. GUEGOLD, Professor of Music; Director of the School of Music (1991) B.M., Capital University; M.M., Ph.D., Kent State University, 1989.
- KEVIN S. GUILFOY, Assistant Professor of Philosophy (2000) B.A., University of Vermont; M.A., Ph.D., University of Washington, 1999.
- PURUSHOTTAM DAS GUJRATI, Professor of Physics; Professor of Polymer Science (1983) B.S., Banaras Hindu University, India; M.S., Indian Institute of Technology, India; M.A., M.S, Ph.D., Columbia University, 1978.
- VIRGINIA L GUNN, Professor of Family and Consumer Sciences (1974) B.S., Kanses State University; M.S., Syracuse University; Ph.D., The University of Akron, 1992.
- MINGMING GUO, Manager, Nuclear Magnetic Resonance Center (1994) B.S., M.S., Nanjing University; Ph.D., Fudan University, 1988.
- JO ANN M. GUSTAFSON, University Auditor (February 1990) B.S.B.A., Kent State University, 1981. SUSAN K. GUY, Budget Analyst (February 1984) B.A., The University of Akron, 1998.
- DEBORAH S. GWIN, Director of the Evening Division (January 1980) B.M., The University of Akron; M.A., The Ohio State University, 1973.
- MCHAEL P. HABER, Professor of Music (1983) B.A., Brandeis University; M.M., Indiana University, 1966
- RICHMAN W. HAIRE, Professor of Art (August 1990) B.A., Rochester Institute of Technology; M.F.A., State University of New York at Buffalo, 1970.
- LIONEL D. HAIZLEP, Associate Professor of Mechanical Technology (August 1990) B.S.M.E., Draxel University; M.S.C.E., The University of Akron, 1979.
- ALI HAJJAFAR, Associate Professor of Mathematics (1984) B.S., M.S., University for Teacher Education in Tehran, Iran; M.S., Ph.D., Michigan State University, 1984.
- ROSALIE J. HALL, Associate Professor of Psychology; Fellow, Institute for Life-Span Development and Gerontology (1988) B.S., Nebraska Wesleyan University; M.A., Ph.D., University of Maryland, 1988.
- STEPHEN F. HALLAM, Deen of the College of Business Administration; Professor of Management (July 1995) B.S., M.S., Illinois State University; Ph.D., University of Iowa, 1974.
- TERRY L HALLETT, Assistant Professor of Speech Language Pathology and Audiology (2000) B.S., M.A., Kent State University; Ph.D., Pennsylvania State University, 1994.
- GARY R. HAMED, Professor of Polymer Science (1980) B.S.C.E., M.S.C.E., Cornell University; Ph.D., The University of Akron, 1978.
- LYNNE ANN HAMMANN, Assistant Professor of Education (1999) B.S., Shippensburg State College; M.A., Western Kentucky University; Ph.D., The Pennsylvania State University, 2000.
- CHANG D. HAN, Benjamin Franklin Goodrich Endowed Professor of Polymer Engineering (January 1993) B.S., Seoul National University; M.S., Sc.D., Massachusetts Institute of Technology; M.S., Newark College of Engineering; M.S., New York University, 1971.
- KEVIN F. HANE, Assistant Professor of Mechanical Engineering (January 2001) B.S., The University of Akron; M.S., Ph.D., University of Minneapolis-St. Paul, 1998.
- SUSAN C. HANLON, Associate Professor of Management; Director of the Center for Family Business; Fitzgerald Institute Fellow, Entrepreneurship (January 1990) B.A., Grove City College; M.B.A., Kent State University; D.B.A., Memphis State University, 1989.
- MARY HARDIN, Director of Technology, College of Business Administration (January 2001) B.S., Case Western Reserve University, 1979.
- SUSAN L HARDIN, Assistant Professor of Psychology (1981) B.A., University of New Mexico; M.A., Ph.D., The Ohio State University, 1973.
- JAMES K. HARDY, Professor of Chemistry (1981) B.S., Cumberland College; Ph.D., Louisiana State University, 1981.
- CHRISTOPHER HARIASZ, Staff Technical Director of Dance, Theatre, and Arts Administration (1996) L.L.M., University of Pennsylvania; M.S., Drexel University, 1987.
- SUBRAMANIYA I. HARIHARAN, Interim Associate Deen of Engineering; Professor of Applied Mathematics; Professor of Electrical Engineering (1985) B.Sc., University of Sri Lanka; M.Sc., University of Salford, England; M.S., Ph.D., Carnegie-Mellon University, 1980.
- STEPHEN L. HARP, Associate Professor of History (1993) B.A., Manchester College; M.A., Ph.D., Indiana University, 1993.
- AUGUSTUS L. HARPER, Associate Professor of Business Management Technology (1987) B.B.A., Case Western Reserve University; M.B.A., University of Pennsylvania, 1973; C.P.A., Ohio.
- WILLIAM D. HARPINE, Professor of Communication (1982) A.B., William and Mary College; M.A., Northern Illinois University; Ph.D., University of Illinois, 1982.
- ALISON K. HARRIGAN, Instructor in Nursing; Coordinator for Junior year, Nursing (1988) B.S.N., University of Cincinnati; M.S.N., Case Western Reserve University, 1985.
- FRANK W. HARRIS, Director of The Maurice Morton Institute of Polymer Science; Distinguished Professor of Polymer Science; Distinguished Professor of Biomedical Engineering; Research Associate, Institute of Polymer Science (1983) B.S., University of Missouri; M.S., Ph.D., University of Iowa, 1968.
- HOLLY J. HARRIS-BANE, Assistant to the Senior Vice President and Provost, Educational Outreach (March 2001) B.A., University of Toledo; M.A., The Ohio State University; M.A., The University of Akron, 1992.
- CYNTHIA L. HARRISON, Business Intelligence Tool Trainer (January 2001) B.A., M.A., M.L.S., Kent State University, 1995.
- TOM T. HARTLEY, Professor of Electrical Engineering (1984) B.A., B.S.E.E., Ohio Northern University; M.S., Ph.D., Vanderbilt University, 1984.
- JEFFREY S. HARWELL, Graphic Artist/Designer (November 1985) A.D., B.F.A., The University of Akron, 1984.
- H. JAMES HARWOOD, Professor of Polymer Science; Professor of Chemistry (October 1959) B.S., The University of Akron, Ph.D., Yale University, 1956.
- ANN HASSENPFLUG, Associate Professor of Education (1997) B.A., University of Louisville; M.A., Leicester Junior College; M.S., University of Wisconsin; Ph.D., University of Wisconsin, 1981.
- DOUGLAS R. HAUSKNECHT, Associate Professor of Marketing and International Business (January 1986) B.S., M.B.A., Ph.D., University of Florida, 1988.
- KIMBERLY A. HAVERKAMP, Program Coordinator, Rey C. Bliss Institue of Applied Politics (May 2000) A.A.B., B.A., The University of Akron, 1999.
- JON M. HAWES, Professor of Marketing; Director of Fisher Institute for Professional Salling (January 1991) B.S., M.B.A., Indiana State University; Ph.D., University of Arkansas, 1981.
- DEBRA L. HAYES, Associate University Registrar for Student Information Systems (1976) B.S., M.A., The University of Akron, 1998.

- ILLONA M. HAYES, Assistant to the Senior Vice President and Provost/Administrative Services (1994) B.A., The University of Akron, 1998.
- NANCY L. HAYES, Associate Professor of Bibliography (October 1994) B.S., The Ohio State University; M.L.S., Kent State University; M.A., The University of Akron, 2000.
- JESS W. HAYS, Director, Academic Advisement Center (August 1977) B.A., The University of Akron; M.A., Bowling Green State University; M.B.A., The University of Akron, 1985.
- JOHN E. HEBERT, Professor of Management (1980) B.S.E., University of Toledo; M.S.I.E., Ph.D., Purdue University, 1975.
- JOHN A. HEMINGER, Associate Professor of Applied Mathematics (1984) B.S., University of Cincinnati; M.S., Ph.D., Purdue University, 1974.
- ALAN A. HERBERT, Manager of the Help Desk (October 1978) B.S., M.S., The University of Akron, 1985.
- PAUL A. HEROLD, Assistant Vice President, Public Affairs and Development (November 1980) B.A., M.Ed., The University of Akron, 1999.
- BECKY H. HERRNSTEIN, Executive Assistant to the President for Organizational Development (September 1999) B.A., Kent State University; J.D., The Ohio State University, 1983.
- LANA HEYLOCK, Head Dance Institute (1984) B.F.A., The University of Akron, 1997.
- DANIEL LEE HICKEY, Coordinator, Continuing Education (November 1999) B.S., M.A., University of Missouri-Columbia, 1973.
- TERRY L HICKEY, Senior Vice President and Provost; Professor of Psychology (May 2000) B.A., Southern Illinois University; M.A., Michigan StateUniversity; Ph.D., University of Miami, 1972.
- V. DOUGLAS HICKS, Associate Professor of Music; Director of Computer Instruction in Music (July 1981) B.M., The University of Akron; M.M., University of Miami, 1975.
- PATRICIA S. HILL, Assistant Professor of Communication (1999) A.A., Cuyahoga Community College; B.A., M.A., Cleveland State University; Ph.D., Bowling Green State University, 1998.
- DANIEL E. HIPSHER, Head Basketball Coach (April 1995) B.S., Bowling Green State University; M.Ed., Miami University, 1978.
- JOHN J. HIRSCHBUHL, Senior Multi-Media Producer; Professor of Education (1971) B.S., M.S., Temple University; Ph.D., Pennsylvania State University, 1971.
- WALTER L. HIXSON, Professor of History; Department Chair of History (1989) B.A., University of Kentucky; M.A., Western Kentucky University; Ph.D., University of Colorado, 1986.
- GEORGE V. HODOWANEC, Professor of Bibliography (1983) B.S., Temple University; M.S., Drexel University; Ed.D., Temple University, 1972.
- PHIL R. HOFFMAN, Manager, Media Production Facilities (July 2000) B.A., M.A., The University of Akron, 1990.
- SCOTT HOGUE, Director Ticket Operations-Athletics (1999) B.S., The University of Akron, 1993.
- JAMES H. HOLDA, Associate Professor of Biology (1987) B.S., University of Michigan at Dearborn; Ph.D., Wayne State University, 1982.
- PAMELA J. HOLLINGER, Coordinator, Academic Developmental Programs (2000) B.A., M.A., The University of Akron, 1983.
- JENNIFER L HOLZ, Assistant Professor of Sociology (1998) B.A., Kent State University; M.A., Ph.D., Colorado State University, 1995.
- YU-HUNG HONG, Assistant Professor of Geography and Planning (1999) B.S., Northeastern University; M.A., Ph.D., Massachusetts Institute of Technology, 1995.
- MICHELLE S. HOO FATT, Associate Professor of Mechanical Engineering (1995) B.S., M.S., Ph.D., Massachusetts Institute of Technology, 1992.
- CHRISTOPHER P. HOOT, Associate Professor of Art (1991) B.A., Indiana University; M.F.A., Yale University, 1990.
- DAVID H. HOOVER, Professor of Fire Protection Technology; Professor, Emergency Management; Director of Training Center for Fire and Hazardous Materials; Director, Fire Protection and Emergency Management (1983) A.A.S., B.S.T.E., M.S.T.E., The University of Akron; Ph.D., Union Experimenting C&U, 1993.
- DAVID P. HORN, Director of College Centered Development and Planned Giving (1984) B.A., Borromeo Seminary College; M.A.T.E., The University of Akron, 1990.
- SUSANNA K. HORN, Coordinator of Developmental Programs (January 1999) B.A., M.A. Ph.D., The University of Akron, 2000.
- NANCY E. HOUSE, Coordinator, Academic Advising for Student Athletes (June 1999) B.S., M.S., Emporia State University, 1994.
- PHILP A. HOWARD, Associate Professor of History; Course Director, World Civilizations (August 1991) B.S., Manchester College; M.A., Ph.D., Indiana University at Bloomington, 1988.
- WILLIAM G. HOYT JR., Professor of Music (1981) B.M., University of Wisconsin; M.M., Yale School of Music, 1975.
- CARA HRABUSA, Marketing and Promotions Manager (2000) B.A., The University of Akron, 1999. GEORGE P. HRUBY, Instructor in Finance (1988) B.S., Marquette University; M.B.A., Cleveland State
- University, 1976. SHERRI L. HRUSOVSKI, Assistant Director College Career Center (November 2000) B.A., Youngstown State University, 1989.
- JUN HU, Assistant Professor of Chemistry (1999) B.S., Fudan University; M.S., Shanghai Institute of Organic Chemistry; M.S., West Virginia University; Ph.D., Purdue University, 1997.
- YU-KUANG BEN HU, Assistant Professor of Physics (1998) B.A., Swarthmore College; M.S., Ph.D., Cornell University, 1990.
- SANDRA L. HUDAK, Assistant Professor of Family and Consumer Sciences (2000) B.S., University of Pennsylvania; M.S., The University of Akron, 1996.
- MARLENE S. HUFF, Assistant Professor of Nursing (1984) M.S.N., The University of Akron; Ph.D., Case Western Reserve University, 1991.
- ROBERT J. HUFF, Associate Professor of Art (1980) B.F.A., The University of Akron; M.F.A., The Ohio State University, 1980.
- WILSON R. HUHN, Professor of Law; Research Fellow, Constitutional Law Center; Intellectual Property Center Fellow; C. Blake McDowell Jr. Professor (1984) B.A., Yale University; J.D., Cornell University, 1977.
- SUE HUM, Assistant Professor of English (1997) B.A., Park College; Ph.D., Texas Christian University, 1994.
- RALPH P. HUMMEL, Professor of Public Administration and Urban Studies (1997) B.A., M.A., Wayne State University; Ph.D., New York University. 1972.
- KEITH A. HUNT, Director of Distributed Systems (July 1979) B.S., B.A., The University of Akron, 1979.

- IOBAL HUSAIN, Associate Professor of Electrical Engineering (July 1994) B.S., Bangladesh University of Engineering and Technology; M.S., Ph.D., Texas A&M University, 1993.
- NATHAN IDA, Professor of Electrical Engineering (January 1985) B.Sc.E.E., M.Sc.E.E., Ben-Gurion University of the Negev; Ph.D., Colorado State University, 1983.
- AVRAAM I. ISAYEV, Distinguished Professor of Polymer Engineering (1983) M.Sc., Azerbaijan Institute of Oil and Chemistry; M.Sc., Moscow Institute of Electronic Machine Building; Ph.D., USSR Academy of Sciences, 1970.
- MICHAEL J. JALBERT, Interim Associate Dean, Community and Technical College; Professor of Labor Studies; Professor of Social Science (1979) B.S., University of Rhode Island; M.S., University of Massachusetts; J.D., The University of Akron, 1983.
- ANNETTE M. JAMES, DARS Coordinator (November 1999) B.S., Kent State University; M.B.A., The University of Akron, 1999.
- DAVID L. JAMISON, Professor of Communication (1972) B.A., Muskingum College; M.A., J.D., University of Michigan at Ann Arbor, 1969.
- SADHAN C. JANA, Assistant Professor of Polymer Engineering (1998) Ph.D., Northwestern University, 1993.
- LOUIS M. JANELLE JR., Associate Professor of Mathematics; Director of Computing Services (Wayne College) (1981) B.A., St. Michael's College; M.A.T., Bowling Green State University, 1971.
- ROBERT FIELDS JEANTET, Associate Professor of Modern Languages (1984) B.A., M.A., Queens College; Ph.D., City University of New York, 1976.
- JOHN O. JENSEN, Assistant Professor of History (January 2001) B.A., Lawrence University; M.S., East Carolina University; M.S., Carnegie Mellon University, 1995.
- **QETLER JENSRUD**, Assistant Professor of Education (1997) B.A., St. Cloud State College; Ph.D., University of Minnesota, 1995.
- DEBRA L. JOHANYAK, Associate Professor of English (Wayne College) (1992) B.A., M.A., The University of Akron; Ph.D., Kent State University, 1988.
- MICHAEL F. JOHANYAK, Associate Professor of Technical Writing and Composition (1995) B.S., Kent State University; M.A., The University of Akron, 1990.
- PAUL R. JOHN, Professor of Drafting and Computer Drafting Technology (1981) B.S., Kent State University; M.S.T.E., The University of Akron, 1985.
- AVIS L JOHNSON, Associate Professor of Management (January 1984) B.A., Yankton College; M.A., Kansas State University; M.A., Ph.D., University of Nebraska at Lincoln, 1986.
- LAURA J. JOHNSON, Professor of Social Science; Department Chair of Public Service Technology (1975) B.A., M.A., The University of Akron, 1975.
- SYLVIA J. JOHNSON, Director of Hower House (January 1987) B.S., The University of Akron, 1962. SCOTT A. JOHNSTON, Professor of Music (1978) B.M., University of Wisconsin; M.M., The Ohio
- State University, 1974. TUCKER R. JOLLY, Professor of Music (1980) B.M., North Texas State University; M.A., University
- of Connecticut, 1977. GWENDOLYN JONES, Associate Professor of Business Management Technology (1988) B.A.,
- Notre Dame College; M.B.A., Baldwin-Wallace College; Ph.D., The University of Akron, 1989.
- SCOTT JONES, Assistant Track Coach (September 1998) B.S., Duke University; Ph.D., University of California at San Diego, 1989.
- WILLIAM S. JORDAN, M, Professor of Law; C. Bleke McDowell Jr. Professor (1985) B.A., Stanford University; J.D., University of Michigan, 1974.
- ANNE JORGENSEN, Senior Assistant Director of Admissions (December 1997) B.M., Michigan State University; M.M., Morehead State University, 1976.
- ROBERT D. JORGENSEN, Professor of Music; Director of University Bands (1987) B.S.M., University of Illinois at Urbana; M.M., Michigan State University, 1974.
- LU-KWANG JU, Professor of Chemical Engineering (1990) B.S., National Taiwan University; M.S., Ph.D., State University of New York at Buffalo, 1988.
- PARAMJIT KAHAI, Assistant Professor of Management (1999) B.S., Bombay University; M.S., Ph.D., Aubum University,
- DOUGLAS R. KAHL, Professor of Finance (1989) B.A., University of North Dakota; M.A., M.S., Ph.D., University of Iowa, 1981.

MEREDITH KALAPICH, Academic Adviser II (2000) B.A., M.A., The University of Akron 1997.

- CHRISTOPHER M. KANDUS, Coordinator of Greek Afairs (June 2000) B.A., Ashland College; M.A., The University of Akron, 2000.
- JAMES M. KARAS, Accountant Senior (December 1984) B.S., The University of Akron, 1976.
- JEANNE T. KARNS, Assistant Professor of Family and Consumer Sciences (1997) B.S., Butler University; M.S., Ph.D., Purdue University, 1989.
- GALEN S. KARRIKER, Assistant Professor of Music; Assistant Director, University Bands; Director, Marching Band (1999) B.M., Louisiana State University-New Orleans; M.M., Michigan State University, 1994.
- MAUREEN G. KATANIC, Director of Development (July 1999) B.A., John Carroll University; B.A., The University of Akron, 1982.
- KARYN B. KATZ, Professor of Speech-Language Pathology and Audiology (1979) B.S., University of Texas at Austin; M.A., Case Western Reserve University; Ph.D., Kent State University, 1982.
- MARJORIE C. KEIL, Coordinator, Writing Labs in Developmental Programs; Coordinator, Basic Writing (1992) A.A., Lorain Community College; B.A., M.A., Cleveland State University, 1991.
- BRUCE D. KEILLOR, Associate Professor of Marketing and International Business; Associate Director, Institute for Global Business (1999) B.A., University of Minnesota; M.B.A., Mankato State University; Ph.D., University of Memphis, 1994.
- DEBRA S. KELLER, Assistant Professor of Computer Information Systems (1982) B.S, B.S, M.A., The University of Akron, 1996.
- FRANK N. KELLEY, Dean of the College of Polymer Science and Polymer Engineering; Professor of Polymer Science (1978) B.S., M.S., Ph.D., The University of Akron, 1961.
- S. GRAHAM KELLY III, Interim Dean of Engineering; Associate Professor of Mechanical Engineering (August 1992) B.S., M.S., Ph.D., Virginia Polytechnic Institute and State University, 1979.
- PAMELA KAY KELTYKA, Assistant Professor of Accounting (1997) B.S., Purdue University; M.A., University of California-Riverside; Ph.D., University of California-Irvine, 1999.
- THOMAS KEMP, Multi-Media Producer (1999) B.A., The University of Akron, 1998.

CHARLENE KEMP-QUEENER, Academic Advisor II (May 1996) B.A., College of Wooster; M.S., University of Dayton, 1987.

MARY A. KENDRA, Assistant Professor of Nursing (1998) B.S.N., St. John College of Cleveland; M.S.N., Case Western Reserve University; Ph.D., Kent State University, 1990.

- ELIZABETH A. KENNEDY, Assistant Professor of Social Science; Fellow, Institute for Life-Span Development and Gerontology (1990) B.A., M.A., Ph.D., The University of Akron, 2000.
- JOSEPH KENNEDY, Distinguished Professor of Polymer Science; Distinguished Professor of Chemistry (April 1970) B.S.c., University of Budapest; M.B.A., Rutgers University; Ph.D., University of Vienna, 1954.
- ROBERT B. KENT, Professor of Geography and Planning; Department Chair, Geography and Planning (1983) B.A., M.A., University of California at Davis; Ph.D., Syracuse University, 1983.
- JOSEPH F. KEREKES, Accountant (October 1999) B.S., M.A., The University of Akron.
- CHERYL H. KERNANDER, Director, Development (April 1997) B.A., University of California, 1986.
- ELYS L. KETTLING, Director of the Library (Wayne College) (1992) B.A., M.L.I.S., University of Wisconsin at Milvaukee, 1991.
- WASEEM U. KHALIFA, Adjunct Design Associate Professor (January 2001) B.S., University of Engineering and Technology; M.S., University of Toledo, Ph.D., University of Glasgow, 1995.
- LORI I. KIDD, Instructor in Nursing (October 1998) B.S.N., The University of Akron; M.S.N., Case Western Reserve University, 1987.
- WYATT KILGALLIN, Associate Professor of Electronic Technology (1986) A.A.S., B.S., Morehead State University; M.S., University of Tennessee at Knoxville, 1983.
- AMANDA KIM, Psychologist Resident (2000) B.S., M.S., Ph.D., University of Illinois-Urbana, 2000.
 DOSEONG KIM, Assistant Professor of Finance (2000) B.A., M.A., Sogang University; M.S., Ph.D., Drexel University, 2000.
- IL-WOON KIM, Professor of Accounting and International Business; Associate Director, Institute for Global Business (January 1986) B.B.A., Yonsei University; M.B.A., Arizona State University; Ph.D., University of Nebraska, 1985.
- SHARON L. KIMMELL, Associate Professor of Accounting; Director of the Accounting Internship Program (1981) B.A., College of Wooster, M.B.A., University of Wisconsin; D.B.A., Kent State University, 1986; C.P.A., Ohio.
- DAWN M. KING, Assistant to the Vice President/CIO Budget (February 2001) B.B.A., M.B.A., Kent State University, 1999.
- RANDALL H. KING, Professor of Economics (1978) B.S., B.A., M.A., Ph.D., The Ohio State University, 1978.
- ELIZABETH KINION, Director, Professional Practice; Professor of Nursing; Fellow, Institute of Life-Span Development and Gerontology (1987) B.S.N., Montana State University; M.S.E.d. The University of Akron; M.S.N. Kent State University; E.d.D., The University of Akron, 1987.
- MARY K. KIRTZ, Professor of English; Director of Canadian Studies (1985) B.A., University of Toronto; M.A.T., Oberlin College; Ph.D., Case Western Reserve University, 1984.
- GAY C. KITSON, Professor of Sociology (July 1989) B.S., Northwestern University; M.A., Ph.D., University of North Carolina at Chapel Hill, 1972.
- WILLIAM E. KLINGELE, Professor of Education (August 1989) B.S., Western Illinois University; M.S., Ed.D., Indiana University at Bloomington, 1970.
- MONA KLINGLER, Assistant Professor of Speech-Language Pathology and Audiology (1985) B.A., M.A., The University of Akron, 1981.
- RICHARD E. KLOSTERMAN, Professor of Geography and Planning; Professor of Urban Studies (1983) B.S., Purdue University; Ph.D., Cornell University, 1976.
- CATHARINE C. KNIGHT, Associate Professor of Education (January 1996) B.S., M.S., St. Cloud State College; Ph.D., Arizona State University, 1982.
- MARK E. KOEHLER, Assistant to the Director of the Institute of Polymer Science (June 1995) B.S., University of Dayton; M.S., Wright State University; Ph.D., Case Western Reserve University, 1978.
- CHRISTINE A. KOLACZEWSKI-FERRIS, Coordinator of Academic Developmental Programs (July 1981) B.S., M.S., The University of Akron, 1981.
- KATHARINE Y. KOLCABA, Associate Professor of Nursing; Fellow, Institute for Life-Span Development and Gerontology (1987) M.S.N., Frances Payne Bolton School of Nursing, Ph.D., Case Western Reserve University, 1997.
- KWADWO KONADU-AGYEMANG, Associate Professor of Geography and Planning (1997) B.S.C., University of Science and Technology; M.S., University of Melbourne; Ph.D., Monash University, 1991.
- ROSE MARIE B. KONET, Manager of Computer Based Education and Testing (July 1976) B.S. M.A., The University of Akron, 1999.
- MARY S. KONKEL, Associate Professor of Bibliography; Head of Cataloging; (November 1992) B.A., M.L.S., University of Wisconsin at Milwaukee; M.A., Governors State University, 1992.
- MARGERY B. KOOSED, Professor of Law; Aileen McMurray Trusler Professor; Research Fellow, Constitutional Law Center (1974) B.S. Miami University; J.D., Case Western Reserve University, 1974.
- KAREN F. KOPERA-FRYE, Assistant Professor Psychology; Fellow, Institute for Life-Span Development and Gerontology (July 1996) B.A., M.A., Ph.D., Wayne State University, 1992.
- MARTHA M. KORY, Associate Professor of Biology; B.S./M.D. Program Coordinator (1984) B.A., B.S., M.A., Indiana University; Ph.D., University of Nebraska, 1984.
- GERALD F. KOSER, Distinguished Professor of Chemistry (1969) B.S., The Ohio State University, M.S., Ph.D., University of Illinois at Urbana, 1968.
- RICHARD J. KOVACH, Professor of Law; C. Blake McDowell Jr. Professor; Intellectual Property Center Fellow (1980) A.B., Oberlin College; J.D., Harvard University, 1974.
- CINDY L. KOVALIK, Assistant Professor of Education (1998) B.A., Miami University; M.A., Ph.D., Kent State University, 1999.
- FRANCES M. KRAMER. Associate Director, Graduate Nurse Anestisia Program; Instructor in Nursing (2000) B.S., Edinboro University of Pennsylvania; D.N.S., M.S.N., CWRU Bolton School; Ph.D., Case Western Reserve University, 1997.
- ERIC KREIDER, Project Manager, UA Web (November 1997) B.A., The University of Akron, 1982.
- KEVIN L. KREIDER. Professor of Applied Mathematics (1989) B.A., Wittenberg University; M.S., Ph.D., Purdue University, 1986.
- MARYHELEN C. KREIDLER, Professor of Nursing; Fellow Institute for Life-Span Development and Gerontology (1985) B.S., St John College; M.A., M.S., Ed.D., Columbia University, 1978.
 LALA B. KRISHNA, Professor of Mathematics (1981) B.Sc., M.Sc., Patna University (India); M.A.,
- Ph.D., Kent State University, 1979.
 JOHN KRISTOFCO, Dean of Wayne College; Professor of English (Wayne) (1997) B.A., John Carroll
- University; M.A., Cleveland State University; Ed.S., Wright State University; Ph.D., The Ohio State University, 1990.

- JANET S. KROPFF, Assistant Professor of Computer Information Systems (January 2000) B.S., M.A., Kent State University, 1991.
- RAVINDRA KROVI, Associate Professor of Management (1999) B.E., University of Baroda; M.S., Ph.D., Memphis State University, 1993.
- SHARON D. KRUSE, Director, Professional Development and Field Experience; Associate Professor of Education (1995) B.A., Western Washington State College; M.Ed., Seattle Pacific College; Ph.D., University of Minnesota at Minneapolis St. Paul, 1995.
- DEBORA KUCHARSKI, Academic Adviser-International (February 2001) B.S., Carlow College; M.S.Ed., Youngstown State University, 1986.
- RONALD J. KUDLA, Professor of Finance (August 1990) B.S., Pennsylvania State University; M.B.A., Ph.D., University of Pittsburgh, 1978.
- LOUISE M. KUHNS, Director of Development for the College of Fine and Applied Arts (December 1983) B.A., Baldwin-Wallace College, 1963.
- SUZANNE KUNKLE, Assistant Softball Coach (1996) B.S., University of Pennsylvaria, 1994.
 CHARLES A. KUNSMAN, Manager of Aquatics Facilities (July 1991) B.S.Ed., Cleveland State University; M.S.Ed., The University of Akron, 1980.
- CHUN-YI KUO, Assistant Professor of Civil Engineering (1998) B.S., National Taiwan University; M.S., The Ohio State University; Ph.D., Georgia Institute of Technology, 1994.
- SUSAN N. KUSHNER BENSEN, Associate Professor of Education (1994) B.S., Ohio University; M.A., John Carroll University; Ph.D., University of South Florida, 1995.
- PAUL J. KUZDRALL, Professor of Management (1985) B.S.E., University of Michigan; M.B.A., Southern Illinois University at Edwards; Ph.D., Saint Louis University, 1977.
- THEIN KYU, Professor of Polymer Engineering (1983) B.Eng., Kyoto Institute of Technology; M.Eng., D.Eng., Kyoto University, 1980.
- DONALD V. LACONI, Assistant to the Dean for Advising Services in the Community and Technical College; Professor of Hospitality Management; Adjunct Associate Professor of Family and Consumer Sciences (1984) Assoc., B.S.Tech.Ed., The University of Akron; M.Ed., Kent State University, 1988.
- MARTIN LACAYO, Coordinator, Programs Access and Retention (June 2000) B.A., M.S., SUNY College at Buffalo, 2000.00
- LAURIE J. LAFFERTY, Assistant Professor of Music (1996) B.M.E., Baldwin Wallace College; M.M., Youngstown State University, 1992.
- JOHN A. LeGUARDIA, Vice President of Public Affairs and Development (June 1994) B.A., M.A., The University of Akron, 1974.
- KAREN E. LAHEY, Professor of Finance; Charles Herberich Professor of Real Estate; Fitzgerald Institute Fellow, Entrepreneurship (1991) B.A., University of Florida; M.B.A., Ph.D., Florida State University, 1985.
- RICHELLE S. LAIPPLY, Assistant Professor of Medical Assisting Technology (1995) B.S., The Ohio State University; M.S., The University of Akron, 1996.
- PAUL C. LAM, Associate Dean of Engineering for Undergraduate Studies and Diversity Programs; Professor of Engineering Education; Director of Cooperative Engineering Education; Professor of Education (1980) B.S., Purdue University; M.S., University of Illinois at Urbana; Ph.D., The University of Akron, 1978.
- GREGORY K. LANDIS, Assistant Director, Admissions (1998) B.B.M., M.E., Ohio University, 1996.
- LINDA LANIER, Associate Director Admissions-Operations (February 2000) B.S., The University of Akron; M.S., Kent State University, 1993.
- JOHN C. LANSHE, Academic Adviser II (June 1981) B.A., The University of Akron; M.A., Bowling Green State University, 1981.
- ELIZABETH A. LARIVIERE, Professor of Office Administration (1985) A.A., Cape Cod Community College; B.S., Salem State College; M.Ed., Florida Atlantic University; Ph.D., Arizona State University, 1984.
- JOSEPH A. LAROSE, Associate Professor of Bibliography (October 19B7) B.A., M.A., The University of Akron; M.L.S., Kent State University, 1988.
- ANTHONY J. LaSALVIA, Assistant Professor of Criminal Justice Technology (1992) B.S.S., John Carroll University; M.S.W., University of Michigan at Ann Arbor; J.D., The University of Akron, 1972.
- EDWARD J. LAUGHNER, Assistant Professor of Art (1984) B.S.Ed., Youngstown State University; M.A., Kent State University, 1978.
- LUCINDA S. LAVELLI, Associate Professor of Dance; Director of the School of Dance, Theatre and Arts Administration (1993) B.A., Dennison University; M.F.A., Case Western Reserve University, 1991.
- PETER J. LAVRENTYEV, Assistant Professor of Biology (November 1998) M.S., Russian State Pedagogical University; Ph.D., Russian Academy of Sciences, 1991.
- PETER J. LEAHY, Professor of Public Administration and Urban Studies; Center Associate, Center for Urban Studies; (January 1980) B.A., St. Peters College; M.A., The University of Akron; Ph.D., Syracuse University, 1975.
- BRANT LEE, Assistant Professor of Law (1997) B.A., University of California at Berkely; J.D., M.A., Harvard University, 1994.
- MATTHEW T. LEE, Assistant Professor of Sociology (2000) B.A., Kent State University; M.A., Ph.D., University of Delaware, 2000.
- LYNN M. LENART, Assistant Law Librarian for Reference Services (1982) M.L.S., Kent State University; B.A., J.D., The University of Akron, 1999.
- JAMES V. LENAVITT, Associate Professor of Art (1969) B.F.A., M.F.A., Ohio University, 1969.
- LISA A. LENHART, Assistant Professor of Education (1998) B.S., Bowling Green State University; M.Ed., John Carrol University; Ph.D., Kent State University, 2000.
- JANE K. LEONARD, Professor of History (1987) B.S., Milwaukee-Downer College; M.A., University of Idaho; Ph.D., Cornell University, 1971.
- ARKADY I. LEONOV, Professor of Polymer Engineering (1988) B.S., Moscow Institute of Chemical Engineering; M.S., Moscow State University; Ph.D., USSR Academy of Sciences; Ph.D., Karpov Physico-Chemical Research Institute, Moscow USSR, 1969.
- MAUREEN T. LERCH, Reference/Outreach Librarian-Wayne (January 2001) B.A., M.L.S., Kent State University, 1995.
- SHARON A. LESNER, Professor of Speech-Language Pathology and Audiology; Fellow, Institute for Life-Span Development and Gerontology (1979) B.A., Hiram College; M.A., Kent State University; M.A., Wayne State University; Ph.D., The Ohio State University, 1979.
- MICHAEL J. LEVIN, Assistant Professor of History (1999) B.A., Vassar College; M.A., Ph.D., Yale University, 1998.
- JAY A. LEVINE, Director of Career Planning and Placement-Law (2000) B.A., M.A., Kent State University; M.A., Ph.D., The University of Akron, 1991.
- PAUL E. LEVY, Associate Professor of Psychology; Fellow, Institute for Life-Span Development and Gerontology (1989) B.A., Washington and Lee University; M.S., Ph.D., Virginia Polytechnic Institute and State University, 1989.
- JUDITH H. LEWIS, Director of Nursing Education; Associate Professor of Nursing (June 2000) B.S.N., M.S., The Ohio State University; E.D.D., University of Cincinnati, 1991.
- MARK LEWIS, Director, Center for Organizational Development (April 1998) B.A., Morehouse College; M.A., Michigan State University, 1997.
- DALE M. LEWISON, Professor of Marketing; Department Chair of Marketing (1981) B.Ed., University of Wisconsin; M.A., Ph.D., University of Oklahoma, 1974.
- HUEY-LI LI, Associate Professor of Education (1995) B.A., National Taiwan University; M.S.Ed., Eastern Illinois University; M.A., Southern Illinois University; Ph.D., University of Illinois at Urbana, 1994.
- JING LI, Accountant (1995) B.S., Zhe Jiang University; M.S., Harbin University of Architectural and Civil Engineering; M.B.A., The University of Akron, 1996.
- PETER K. LJ, Assistant Professor of Social Work (1995) B.S., Mount Allison University; M.S.W., University of Hong Kong; D.S.W., Columbia University, 1988.
- ROBERT YING-KO LLANG, Professor of Civil Engineering (1985) B.S.C.E., Tarnkang University; M.S.C.E., North Carolina State University; Ph.D., University of California at Berkeley, 1985.
- ALVIN H. LIEBERMAN, Associate Professor of Accounting; Coordinator of Taxation Studies (1969) B.S., J.D., M.B.A., The University of Akron, 1969; C.P.A., Ohio.
- TIMOTHY H. LILLE, Assistant Professor of Education (1996) A.B., Lafayette College; M.A., Ph.D., University of North Caroline, 1991.
- EDWARD C. LIM, Goodyear Professor of Chemistry (June 1989) B.S., St. Procopius College; M.S., Ph.D., Oklahoma State University, 1959.
- YOUNG Y. LIN, Assistant Professor of Communication (1997) B.S., Peking University; M.A., Morehead State University; A.B.D., University of Oklahoma, 1998.
- YUEH-JAW R. LIN, Associate Professor of Mechanical Engineering (1988) B.S., National Tsing-Hua University; M.S., Ph.D., University of Illinois Chicago Circle, 1988.
- PETER LINBERGER, Associate Professor of Bibliography (February 1980) B.S., M.S., The University of Akron; M.L.S., Kent State University, 1988.
- LINDA G. LINC, Professor of Nursing (1982) B.S.N., M.S.N., Ph.D., Kent State University, 1983.
- KATHY J. LISZKA, Associate Professor of Computer Science (1993) B.A., Thiel College; M.S., Ph.D., Kent State University, 1992.
- LIPING LIU, Associate Professor of Management (2001) B.S., M.S., Huazhong University; B.E., Wuhan University; Ph.D., University of Kansas, 1995.
- CIIN LIU, Assistant Professor of Biology (2000) B.S., Huazhong Agricultural University; M.S., Ph.D., University of Kentucky, 1994.
- CELIA C. LO, Associate Professor of Sociology (1996) B.A., Honk Kong Shue Yan College; M.A., Ph.D., University of Alabama, 1993.
- JACK A. LOESCH, Assistant Professor of Business Management Technology (Wayne College) (July 1993) B.B.A., Kent State University; M.B.A., Kennesaw Junior College, 1988.
- WILLIAM M. LOHRUM JR., Chief, University Police (January 1999) A.A.S., A.A., B.A., The University of Akron, 1975.
- KENNETH C. LOLLA, Head Soccer Coach (August 1993) B.S., Duke University, 1986.
- RICHARD L LONDRAVILLE, Assistant Professor of Biology (1996) B.S., Long Island University of Southampton Center; M.S., Ph.D., University of Maine at Orono, 1994.
- JOAN C. LONG, Assistant Professor of Bibliography (1993) B.A., MacMurray College; M.S.L.S., Case Western Reserve University; M.B.A., Baldwin Wallace College, 1977.
- STEPHANIE T. LOPINA, Assistant Professor of Chemical Engineering; Assistant Professor of Biomedical Engineering (1997) B.S., University of Notre Dame; M.S., Lehigh University; Ph.D., Massachusetts Institute of Technology, 1996.
- ROBERT G. LORD, Professor of Psychology; Fellow, Institute for Life-Span Development and Gerontology (1974) B.A., University of Michigan at Ann Arbor; M.S., Ph.D., Carnegie Mellon University, 1975.
- DAVID J. LOUSCHER, Professor of Political Science; Department Cheir of Political Science (1970) B.A., Morningside College; M.A., American University; M.A., Ph.D., University of Wisconsin, 1972.
- TAMARA A. LOWE, Director of Business Operations and Finance (Wayne College)(June 1977) B.S., M.S., The University of Akron, 1994.
- JEFFREY W. LUCAS, Assistant Professor of Sociology (2000) B.B.A., M.A., Ph.D., University of Iowa, 2000.
- THERESE L LUECK, Professor of Communication (1989) A.A., B.A., Thomas More College; M.A., Ph.D., Bowling Green State University, 1989.
- JUTTA LUETTMER-STRATHMANN, Assistant Professor of Physics; Assistant Professor of Chemistry (1998) Ph.D., University of Meryland, 1994.
- THOMAS F. LUKACH, Assistant Professor of Mechanical Engineering Technology (2000) B.S., University of Cincinnati; M.S., The University of Akron, 1980.
- JOHN J. LUTHERN, Associate Professor of Polymer Technology (1996) B.A., Youngstown State University, M.S., Ph.D., The University of Akron, 1991.
- JAMES M. LYNN, Associate Dean Fiscal Affairs, Fine and Applied Arts; Professor of Speech-Language Pathology and Audiology; Director of the School of Speech-Language Pathology and Audiology (1980) B.S., M.A., Ph.D., University of Iowa, 1975.
- WILLIAM T. LYONS JR., Assistant Professor of Political Science (1996) B.A., University of Massachusetts; M.A.L.D., Tufts University, Ph.D., University of Washington, 1995.
- SERGEL F. LYUKSYUTOV, Assistant Professor of Physics (2000) M.S., Moscow Institute of Physics and Technology; Ph.D., Academy of Science, 1991.
- MARY JO MacCRACKEN, Professor of Physical and Health Education (1968) B.A., College of Wooster, M.A., The University of Akron; Ph.D., Kent State University, 1980.
- SUZANNE C. MacDONALD, Associate Professor of Education (1989) B.S., Otterbein College; M.A., California State University at Los Angeles; Ed.D., University of Hawaii, 1987.
- BARBARA J. MacGREGOR, Professor of Music (1969) B.M., The University of Akron; M.M., Cleveland Institute of Music, 1967.
- CHERIE A. MADARASH-HILL, Assistant Professor of Bibliography (May 1989) B.A., University of Saskatchewan (Canada); M.L.S., Vanderbilt University, 1984.

- LAURGE E. MADDEN, Assistant Vice President for Physical Facilities (March 1989) A.A.S., B.S.B.A., The University of Akron, 1985.
- DIANE Y. MAFFEI, Institutional Research Analyst (November 1986) B.A., The University of Akron, 1996.
- CYNTHIA A. MAKO, Assistant Director, College Career Center, Coordinator of College of Business Administration Student Organizations (November 1998) B.S.A., The University of Akron, 1990.
- PATSY A. MALAVITE, Associate Professor of Business and Office Technology (Wayne College) (1984) B.A., B.S., Ohio University; M.Ed., Kent State University, 1983.
- DEVINDER M. MALHOTRA, Associate Dean, Buchtel College of Arts and Sciences; Professor of Economics (1979) B.A., M.A., University of Delhi; Ph.D., Kansas State University, 1979.
- ROBERT R. MALLIK, Professor of Physics; Department Chair, Physics; Professor of Chemistry (1988) B.S., Ph.D., Leicester Polytechnic, 1985.
- TED A. MALLO, Vice President and General Counsel; Secretary of the Board of Trustees; Inspector General Liaison; Adjunct Associate Professor of Education (July 1969) B.S.Ed., M.S., J.D., The University of Akron, 1972.
- ELIZABETH MANCKE, Associate Professor of History (1994) B.A., Colorado College; M.A., University of British Columbia; Ph.D., John Hopkins University, 1990.
- LORRI L MARCH, Admissions Counselor (Wayne College) (June 1998) B.A., The University of Akron, 1997.
- CHRISTINA MARGALA, Assistant Director College Career Center (July 2000) B.A., Bowling Green State University; M.Ed., Kent State University, 1998.
- TIMOTHY S. MARGUSH, Assistant Professor of Computer Science (1982) B.S., Indiana University of Pennsylvania; M.A., Ph.D., Bowling Green State University, 1980.
- BRENDA L. MARINA, Academic Advisor II (March 1998) A.A.S., B.S., M.S., The University of Akron, 1996.
- RICHARD M. MARINGER, Associate Professor of Business and Office Technology (Wayne College) (1986) B.S., U.S. Military Academy; M.S.B.A., Boston University; M.B.A., The University of Akron, 1991.
- DEBORAH D. MARINO, Associate Professor of Family and Consumer Sciences (1994) B.S., Saint Mary's College; M.S., Drexel University; M.S., Ph.D., University of California at Berkley, 1983; R.D. Illinois.
- NANCY E. MARION, Professor of Political Science (August 1990) B.S., Pennsylvania State University; M.S., American University; M.A., Ph.D., State University of New York at Binghermon, 1990.
- JOHN A. MAROLI, Coordinator of Developmental Programs (Wayne College) (August 1992) B.S., M.A., Ph.D., Bowling Green State University, 1989.
- JESSE F. MARQUETTE, Director of the Center for Policy Studies; Professor of Political Science; Fellow, Ray C. Bliss Institute of Applied Politics (1971) B.A., M.A., Ph.D., University of Florida, 1971.
- GUY J. MARRELLI, Electrical Engineer (June 1990) B.E.E., M.S.E.E., Cleveland State University, 1975.
- ROBERT KENT MARSDEN, Director of Administrative Services for the College of Polymer Science and Polymer Engineering (January 1984) B.A., The University of Akron, 1970.
- DAVID A. MARSTELLER, Assistant Director, Student Financial Aid (May 2000) B.A., B.A., Kent State University, 1995.
- CATHY L MARTIN, Instructor in Marketing (1997) B.S., Old Dominion University; M.B.A., Northeast Louisiana University, 1985.
- JUANITA K. MARTIN, Senior Associate Director, Counseling Testing and Career Center; Psychologist (1988) B.A., Brown University; M.Ed., University of Hartford; M.A., Ph.D., Kent State University, 1990.
- ROBERTA R. MARTIN, Academic Adviser II (July 1968) B.S., M.A., The Ohio State University; Ed.D., The University of Akron, 1987.
- JANET S. MARTING, Professor of English (1984) B.A., University of Vermont; M.A., Colorado State University; Ph.D., Michigan State University, 1982.
- LINDA E. MARX, Coordinator of International Programs (June 1979) A.A.S., B.A., The University of Akron, 1994.
- AMY H. MAST, Director of Training and Special Programs (Wayne College) (1992) B.S., M.S., The University of Akron, 1990.
- JOHN E. MATEJKOVIC, Assistant Professor of Business Law (2000) B.A., J.D., The University of Akron, 1979.
- HERBERT S. MATHENY JR., Manager of Personal Computer Support Services (August 1991) A.A.S., The University of Akron; B.A., Hiram College, 1987.
- WAYNE L. MATTICE, Alex Schulman Professor of Polymer Science (July 1986) B.A., Grinnell College; Ph.D., Duke University, 1968.
- RUTH E. MATTY, Controller (March 1980) B.S., M.B.A., The University of Akron, 1986.
- P. RUBY MAWASHA, Director of Diversity in Engineering and Science; Assistant to the Dean, College of Engineering (1998) B.E., City College of New York; M.S., Ph.D., The University of Akron, 1997.
- ROGER C. MAYER, Professor of Management (2001) B.A., Kent State University; Ph.D., Purdue University, 1989.
- TIMOTHY McCARRAGHER, Professor of Social Work (2000) B.A., Pontifical College Josephinum, STB., STL., Pontificia Universita Gregoriana, MSW, Cleveland State University, 1997.
- DANIEL W. McCARTHY, Associate Professor of Music (2000) M.M., The University of Akron; B.M., Ph.D., Kent State University, 1988.
- REBECCA L. McCOLLUM, Associate Professor of Computer Information Systems (1989) B.S., Kent State University; M.B.A., The University of Akron, 1988.
- DAVID A. McCONNELL, Professor of Geology (August 1989) B.S., The Queen's University; M.S., Oklahoma State University; Ph.D., Texas A&M University, 1987.
- THERESA M. McCUNE, International Admissions Officer (October 1992) B.S., The University of Akron, 1993.
- RONALD L. McDONALD, Assistant Dean of Student Affairs (August 1979) B.A., The University of Akron; M.A., Bowling Green State University, 1976.
- ROBERT A. McGUIRE, Professor of Economics (August 1990) B.A., California State University at Long Beach; M.A., Ph.D., University of Washington, 197B.
- WILLIAM K. MCHENRY, Associate Professor of Management (2000) B.S.E., Princeton University; M.S., University of Virginia; Ph.D., University of Arizona, 1985.

- SUSAN M. McKIBBEN, Manager Software Training Services (May 1985) A.S., Stark Technical College; B.S., M.S., The University of Akron, 1996.
- SUSAN P. MCKIERNAN, Assistant Director of the School of Art (1977) B.F.A., M.S.T.E., The University of Akron, 1987.
- MARTHA J. MCNAMARA, Instructor in the English Language Institute; Assistant Director of the English Language Institute (August 1982) B.A., State University of New York at Oneonta; M.Ed., State University of New York at Buffalo; M.A., University of Pittsburgh, 1980.
- DOUGLAS A. McNUTT, Director of Student Financial Aid (January 1995) A.A.S., Devry Institute of Technology; B.A., M.A., Governor's State University, 1979.
- SUSANNE M. MEEHAN, Assistant Professor of Psychology (1998) B.A., Ph.D., Kent State University; M.A., SUNY at Binghamton, 1996.
- LORI A. MEEK, Advertising Manager (October 1986) A.A.S., B.S., The University of Akron, 1982. CAROLYN L. MEHL, Director of Major Gifts; Associate Director of Planned Giving (November 1979)
- B.F.A., B.S.Ed., Bowling Green State University; M.S.Ed., The University of Akron, 1983. CRAIG C. MENZEMER, Associate Professor of Civil Engineering (1996) B.S., M.S., Ph.D., Lehigh
- University, 1992.
- ADAM P. MESSNER; Admissions Counselor (2000) B.S., Youngstown State University, 1999.
- DAVID G. MEYER, Associate Professor of Management (1989) B.S., University of Michigan; M.B.A., Concordia University; Ph.D., University of Michigan, 1986.
- ROBERT MEYERS, Assistant Professor of Art (1998) B.F.A., Bowling Green State University; M.F.A., Kent State University, 1997.
- CHAND MIDHA, Professor of Statistics; Department Chair, Statistics; Director, Center for Statistical Consulting; Faculty Coordinator of Student Outcomes Assessment (1983) M.S., Indian Agricultural Research Institute; Ph.D., Iowa State University, 1980.
- JOSEPH MIGDEN, Assistant Director of the Academic Advisement Center, Academic Adviser (July 1975) B.B.A., M.Ed., Kent State University; Ph.D., The University of Akron, 1988.
- ADEL A. MIGID-HAMZZA, Professor of Theatre Arts (1980) B.F.A., School of Dramatic Arts, Cairo; M.F.A., Ohio University, 1972.
- CHRISTOPHER M. MILLER, Associate Professor of Civil Engineering (1995) B.S., M.S., Ph.D., University of Iowa, 1995.
- JOHN V. MILLER JR., Associate Professor of Bibliography; Director of Archival Services; Director of the American History Research Center; University Records Officer (July 1972) B.A., Franklin and Marshall College; M.A., University of Delaware, M.L.S., Kent State University, 1992.
- JON S. MILLER, Assistant Professor of English (2000) B.A. University of Delaware; Ph.D., University of Iowa, 2000.
- MARIAN A. MILLER, Associate Professor of Political Science (1990) A.A., B.A., M.A., Ph.D., University of Southern California Los Angeles, 1988.
- GEORGE E. MILLIGAN, UA Data Administrator (December 2000) B.S., University of North Carolina; M.B.A., Cleveland State University, 1987.
- AMY MILSTED, Professor of Biology (1993) B.S.Ed., The Ohio State University; Ph.D., City University of New York, 1977.
- JANET L. MINC, Professor of English (Wayne College) (1978) B.A., Hofstra University; Ph.D., State University of New York at Binghamton, 1979.
- JOYCE E. MIRMAN, Professor of Computer Information Systems (1976) A.A.S., B.S.Tech.Ed., M.S.Tech.Ed., The University of Akron, 1980.
- DENNIS W. MITCHELL, Head Men's and Women's Track Coach (1995) B.A., Abilene Christian College, 1985.
- RANDALL J. MITCHELL, Associate Professor of Biology (1995) B.S., University of California; M.A., Ph.D., University of California-Riverside, 1991.
- ANNETTE R. MITZEL, Instructor in Nursing (1994) B.S.N., M.S.N., The University of Akron, 1983.
- ANDRE C. MIZELL, Assistant Professor of Sociology (2000) B.A., Oberlin College; M.A., Ph.D., The Ohio State University, 1997.
- PHILIP J. MOBERG, Assistant Professor of Psychology; Fellow, Institute for Life-Span Development and Gerontology (1999) M.A., Ph.D., University of Illinois at Urbana-Champaign, 1995.
- ERIC MOBLEY, Assistant Track and Field Coach (September 2000) B.S., La Salle University, 1993. DAVID A. MODARELLI, Assistant Professor of Chemistry (1997) B.A., College of Wooster; Ph.D.,
- University of Massachusetts at Amherst, 1991. CHARLES B. MONROE, Associate Dean, Buchtel College of Arts and Sciences; Professor of
- Geography and Planning: Center Associate Dealter College of Arts and Sciences, Polessor of Geography and Planning: Center Associate, Center for Urban Studies (1981) B.A., University of Wisconsin; M.A., Ph.D., Pennsylvania State University, 1974.
- DENISE K. MONTANARI, Assistant Director Counseling, Testing and Career Center Placement (March 1994) Assoc., Stark Technical College; B.A., Malone College, 1997.
- FRANCISCO B. MOORE, Assistant Professor of Biology (2001) B.S., M.S., Ph.D., Michigan State University, 1996.
- CHARLES N. MOOREFIELD, Associate Research Scientist (February 2001)
- CORA L. MORETTA, Assistant Director, Student Financial Aid (September 1990) B.S., The University of Akron, 1993.
- KIMBERLY MORGAN, Associate Director of the Alumni Association (1993) B.A., M.A., The University of Akron, 1995.
- JANE C. MORIARTY, Associate Professor of Law (1999) B.A., J.D., Boston College;
- E. STEWART MORITZ, Assistant Professor of Law (2001) B.A., Yale University; J.D., Vanderbilt University, 1995.
- ROBERT MORRIS, Assistant Football Coach/Defensive Coordinator (April 1998) B.S., M.S., University of Colorado, 1983
- JOHN W. MORRISON, II, Assistant Professor of Art (August 1986) B.F.A., The University of Akron, 1980.
- MICHAEL W. MORSCHES, Director of Developmental Programs (2000) B.A., Central State University; M.A., The University of Akron, 1993.
- SHARON A. MOSHER, Coordinator of Developmental Programs (1999) A.A., Mt. Vernon Nazarene College; B.A., Revecca Nazarene College; M.Ed., University of Akron, 1993.
- DENISE M. MOSS, Manager of the Cashier's Office (June 1993) B.S., Franklin University, 1981.
- CAROL C. MRAK, Academic Adviser II (1995) B.S., Dyke College; M.S., The University of Akron, 1997.
- DALE H. MUGLER, Professor of Applied Mathematics; Professor of Biomedical Engineering; Interim Master, University Honors Program (1989) B.A., University of Colorado; M.A., Ph.D., Northwestern University, 1974.

- KARLA T. MUGLER, Dean of the University College (January 1990) B.A., Kent State University; M.A., Ph.D., Northwestern University, 1974.
- JOHN MUMPER, Professor of Community Services Technology; Fellow, Institute for Life-Span Development and Gerontology (January 1977) B.A., The University of Akron; M.S.S.W., University of Louisville; J.D., The University of Akron, 1981.
- MARTIN D. MURPHY, Professor of Psychology; Senior Fellow, Institute for Life-Span Development and Gerontology (1975) A.B., Dartmouth College; M.S., Ph.D., University of Illinois at Urbana, 1975.
- CONNIE F. MURRAY, Interim Director of Admissions (June 1989) B.A., M.A., The University of Akron, 1992.
- DAVID R. MUSSER, Mechanical Engineer (1995) B.S.M.E., The University of Akron, 1985.
- STEVEN C. MYERS, Associate Professor of Economics (1979) B.S.Ec., M.A., West Virginia University; M.A., Ph.D., The Ohio State University, 1980.
- JAMES E. NALEN, Assistant Professor of Bibliography (2000) B.A., University of Massachusetts-Amherst; M.S., Simmons College; M.S., University of Massachusetts-Boston Campus, 1999.
- LESA D. NALLEY, Career Placement and Adult Services Specialist-Wayne College (April 2001) A.A., University of Maine; B.S., M.A., Ball State University, 1990.
- JOHN D. NAPIER, Assistant Volleyball Coach (July 1999) B.A., The University of Akron, 1995.
- VIVIAN C. NEAL, Assistant to the Senior Vice President and Provost/Educational Outreach (April 2001) B.S., Clarion State College; M.S., The University of Akron, 1988.
- DONNA FELBER NEFF, Assistant Professor of Nursing; Fellow, Institute for Life-Span Development and Gerontology (January 2000) A., Erie Community College; M.S.N., The University of Akron, 1994.
- MICHAEL A. NELSON, Professor of Economics; Department Chair, Economics (2000) B.A., University of Washington; Ph.D., Purdue University, 1981.
- HENRY NETTLING, Vice President for Business and Finance (February 1964) B.S., B.A., The University of Akron, 1959.
- BI-MIN ZHANG NEWBY, Assistant Professor of Chemical Engineering (2000) B.S., Drexel University; M.S., Ph.D., Lehigh University, 1999.
- GEORGE R. NEWKOME, Vice President and Dean of Graduate School; Professor of Chemistry; Professor of Polymer Science; James and Vanita Oelschlager Professor of Science and Technology (January 2001) B.S., Ph.D., Kent State University, 1966.
- DANIEL M. NEWLAND, Assistant Provost and Dean of Students (August 1971) B.A., Coe College (Iowa); M.S., Indiana University at Bloomington; Ph.D., The University of Akron, 1987.
- CAROLE H. NEWMAN, Associate Professor of Education (1993) B.Ed., University of Miami; M.A., Ph.D., The University of Akron, 1987.
- CHARLES A. NEWMAN, Associate Professor of Law (1996) B.A., J.D., University of Oklahoma, 1980.
- ISADORE NEWMAN, Distinguished Professor of Education; Associate Director of the Institute for Life-Span Development and Gerontology; Senior Fellow, Institute for Life-Span Development and Gerontology (1971) B.A., University of Miami; M.A., New School for Social Research (New York); Ph.D., Southern Illinois University at Carbondale, 1971.
- MELINDA L. NEWMAN, Assistant Professor of Finance (2000) B.S., Miami University; Ph.D., Michigan State University, 1999.
- EVANGELINE NEWTON, Associate Professor of Education (1997) B.A., M.A., Washington University; Ph.D., Kent State University, 1992.
- PAGE L. NICHOLAS, Assistant Director of Development (January 2001) B.S., Ohio University, 1990. ELAINE F. NICHOLS, Associate Dean of Academic Affairs; Associate Professor of Nursing (1980)
- B.S.N., M.S.N., Case Western Reserve University; Ed.D., The University of Akron, 1987. RANDALL G. NICHOLS, Associate Professor of Education (1999) B.S., M.Ed., Ph.D., The Ohio State
- University, 1984. THOMAS M. NICHOLS, Assistant Director of Student Financial Aid (November 1996) B.A., B.S.,
- The University of Akron; B.S. M.A., Kent State University, 1991.
- PETER H. NIEWIAROWSKI, Associate Professor of Biology (1995) B.S., Marlboro College; Ph.D., University of Pennsylvania, 1992.
- GLEN O. NJUS, Research Associate Professor in the Institute for Biomedical Engineering Research (November 1986) B.S., M.S., Ph.D., University of Iowa, 1985.
- SAMUEL NOH, Professor of Sociology; Senior Research Associate, Center for Health and Social Policy (2001)
- TIMOTHY S. NORFOLK, Professor of Mathematics; Program Coordinator, Mathematics; Associate Department Chair, Mathematics and Computer Science (January 1984) B.Sc., Exeter University (England); M.S., The University of Akron; Ph.D., Kent State University, 1984.
- LINDA NORTON-SMITH, Director, Center for Child Development (January 1998) A.A., Grand Rapids Jr. College; B.A., University of Michigan; M.A., Drury College, 1976.
- DAVID NYPAVER, Senior Writer (1997) B.A., The University of Akron, 1982.
- THOMAS D. OBERDIER, Director of Systems Programming and Operations (July 1975) B.S., The University of Akron, 1978.
- JERRY C. OBIEKWE, Associate Professor of Mathematics (Wayne College) (August 1993) B.S., M.S., Southem University A&M; Ph.D., Memphis State University, 1992.
- PHYLLIS G. O'CONNOR, Assistant Dean of University Libraries; Associate Professor of Bibliography; Head of Circulation (1978) B.A., The University of Akron; M.L.S., Kent State University, 1992.
- T. MODIBO OCRAN, Professor of Law; Intellectual Property Center Fellow; Dean's Club Research Professor (1984) L.L.B., University of Ghana; M.L.I., Ph.D., University of Wisconsin, 1971.
- SAMUEL A. ODDI, Professor of Law; Holder, Giles Sutherland Rich Chair in Intellectual Property; Intellectual Property Center Fellow (2000) B.S., Carnegie-Mellon University; J.D., University of Pittsburgh; LL.M., George Washington University, 1971.
- EMEKA O. OFOBIKE, Associate Professor of Accounting; Department Chair, Accounting (1989) B.B.A., M.B.A., Western Illinois University; Ph.D., University of Oregon, 1984.
- CRITTENDEN J. OHLEMACHER, Assistant Manager of Applied Polymer Research (December 1999) B.S., Ohio University; M.S., The University of Akron, 1990.
- JULIA E. OLIVER, Acadenuc Adviser II (January 2001) B.A., Baldwin-Wallace College; M.Ed., The University of Akron, 1983.
- GARY H. OLLER, Associate Professor of Classical Studies; Department Chair of Classical Studies, Anthropology and Archeology (1979) B.A., Dickinson College; Ph.D., University of Pennsylvania, 1977.

GRACE E. OLMSTEAD, Academic Advisor II (October 1977) B.A., Wilberforce University; M.Ed., Kent State University, 1972.

- CAROL A. OLSON, Associate Professor of Law (1986) B.A., Washington College; M.A., M.Ed., University of Delaware; J.D., University of the Pacific, 1983.
- SUSAN J. OLSON, Professor of Education; Department Chair of Curricular and Instructional Studies (1989) B.S., M.Ed., Indiana University of Pennsylvania; Ph.D., Pennsylvania State University, 1989.
- F. SCOTT ORCUTT JR., Associate Professor of Biology (1971) B.S., M.S., Ph.D., Cornell University, 1969.
- DAVID A. OSTERLAND, Associate Vice President for Community Relations (March 2000) B.A., Kent State University, 1979.
- RUTH OSWALD, Assistant Professor of Education (2001) B.S., M.S., Ph.D., The University of Akron, 2000.
- BARBARA A. OSYK, Associate Professor of Management (1989) A.A., Cuyahoga Community College; B.S.I.M., M.B.A., The University of Akron; Ph.D. Kent State University, 1991.
- DONALD W. OTT, Associate Professor of Biology (1974) B.S., Southeastern Louisiana University; Ph.D., University of North Carolina at Chapel Hill, 1973.
- DEBORAH L. OWENS, Assistant Professor of Marketing and International Business (1996) B.S., Ohio University; M.S., Saint Joseph's College, Ph.D., Kent State University, 1997.
- KATHARINE OWENS, Assistant Professor of Education (1997) B.A., Nazareth College; M.S., Texas A & M University; E.d.D., University of Mississippi, 1997.
- LEE A. OWENS, Head Football Coach (January 1995) B.A., Bluffton College; M.A.A., Ashland College, 1981.
- MARC C. OZANICH, Professor of Dance (1973) A.A., Bakersfield College; B.A., University of California at Santa Barbara; M.A., University of California at Los Angeles, 1968.
- LYNNE M. PACHNOWSKI, Associate Professor of Education; Coordinator, Distance Education (1993) B.A., M.Ed., John Carroll University; Ph.D., Boston College, 1994.
- KENNETH J. PAKENHAM, Associate Professor of English (August 1980) B.A., Trinity College (Ireland); M.A., University of Essex (England); Ph.D., University of Pittsburgh, 1980.
- ARTHUR L PALACAS, Professor of English (1976) B.A., Harvard University; Ph.D., Indiana University at Bloomington, 1970.
- JUDITH A. PALAGALLO, Professor of Mathematics (1978) B.S., Westminster College; M.S., Purdue University; Ph.D., Colorado State University, 1975.
- DARYL W. PALMER, Associate Professor of English (August 1990) B.A., Washburn University of Topeka; M.A., Ph.D., University of Kansas, 1990.
- LISA E. PARK, Associate Professor of Geology (1995) B.A., College of Wooster; M.S., Ph.D., University of Arizona, 1995.
- GERALD M. PARKER, Director of Research Services and Sponsored Programs (November 1989) B.A., The University of Akron; M.A., Kent State University, 1983.
- MONICA DEANNA PARKS, Heed Women's Softball Coach (October 1996) B.S., M.A., Kent State University, 1995.
- PATRICIA E. PARR, Associate Professor of Education; Fellow, Institute for Life-Span Development and Gerontology (1993) B.S., The Ohio State University; M.S., Ph.D., The University of Akron, 1994.
- STEPHEN H. PASCHEN, Senior Archives Associate (1984) B.S., Iowa State University Science and Technology; M.A., The University of Akron, 1986.
- KYLE S. PASSMORE, Associate Law Librarian (May 2001) B.A., Capital University; M.L.S., Kent State University; J.D., The University of Akron, 1993.
- JAYPRAKASH G. PATANKAR, Professor of Management (1978) B.S., Bombay University (India); M.S., Ph.D., Clemson University, 1978.
- JOHN A. PECK, Assistant Professor of Geology (2000) B.S., M.S., Ph.D., University of Rhode Island, 1995.
- GEORGIA K. PEEPLES, Professor of Music (1983) B.M., Baylor University; M.A., University of North Carolina; D.M.A., University of Maryland, 1981.
- WOLFGANG PELZ, Professor of Computer Science; Professor of Statistics; Intellectual Property Center Fellow (1978) B.S., Rose Hulman Institute of Technology; M.S., Ph.D. (Statistics), M.S. (Computer Science), Virginia Polytechnic Institute and State University, 1984.
- BRIAN F. PENDLETON, Professor of Sociology (1978) B.A., University of Minnesota at Duluth; M.A., University of North Dakota; Ph.D., Iowa State University, 1977.
- LINDA M. PEROSA, Assistant Professor of Education (1998) B.A., M.A., M.Ed., Ph.D., SUNY at Buffalo, 1983.
- SANDRA L.-PEROSA, Associate Professor of Education (1989) B.A., M.A., M.Ed., Ph.D., State University of New York at Buffalo, 1983.
- DAVID S. PERRY, Professor of Chemistry; Department Chair of Chemistry (January 1987) B.Sc., Ph.D., University of Toronto, 1975.
- GWENDOLYN D. PERRY-BURNEY, Assistant Professor of Social Work (1995) B.S.W., M.S.W., Temple University; Ph.D., University of Pittsburgh, 1995.
- JULIA C. PHILLIPS, Assistant Director, Counseling, Testing and Career Center Training (1994) B.A., M.A., Ph.D., The Ohio State University, 1992.
- DAVID J. PIERSON, Assistant Director, Architectural Services (February 1999) B.A., University of Cincinneti, 1974
- VICTOR E. PINHERO, Associate Professor of Physical and Health Education (1989) B.S., M.S., Jiwaji University, Ph.D., University of Pittsburgh, 1989.
- NANCY PITRE, Assistant Professor of Bibliography (October 1999) S.P.C., College of Outaouais; C.R.T., University of Montreel; B.B.M., University of Quebec-Hull; M.A., McGill University, 1999.
- LAWRENCE A. PITTINGER, Administrative Systems Trainer (1985) A.A.B., B.S., M.S., The University of Akron, 1997.
- KAREN A. PLUMMER, Assistant Professor of Bibliography (January 2001) M.A., Southern Illinois University; B.A., M.L.S., Kent State University, 1984.
- KELLY M. POND, Instructor in Nursing (2000) B.S.N., Kent State University; M.S.N., The University of Akron, 1998.
- DURAND L. POPE, Associate Professor of Theatre Arts (1995) A.B., Brown University, M.A., Case Western University, 1973.
- GEORGE S. POPE, Professor of Music (1978) B.M.E., University of Tulsa; M.M., Northwestern University, 1975.
- ROBERT F. POPE JR., Professor of English (1977) B.A., University of California at Berkeley; M.A., California State University, San Diego; M.F.A., University of Iowa, 1976.

SUSAN H. POPE, Associate Professor of Business Management Technology (January 1992) B.S., Pennsylvania State University; M.B.A., The Ohio State University, 1978.

- PAULETTE M. POPOVICH, Associate Professor of Business Management Technology; Associate Dean of Instruction (Wayne College) (1998) B.A., The University of Akron; M.Ed., Pennsylvania State; Ph.D., Virginia Polytechnic Institute and State University, 1988.
- THOMAS E. PRICE JR., Professor of Applied Mathematics (1976) B.S., M.S., Ph.D., University of Georgia, 1976.
- LORETO R. PRIETO, Assistant Professor of Education (2000) B.A. PhD., University of Iowa, 1996.
- DAVID PROCHAZKA, Assistant Professor of Bibliography (June 1998) B.M., Roosevelt University; M.L.S., Rosary College, 1993.
- GEORGE E. PROUGH, Professor of Marketing (1968) M.A., Michigan State University; D.B.A., Kent State University, 1977.
- COLEEN PUGH, Associate Professor of Polymer Science (1998) B.A., B.S., University of California; M.S., Ph.D., Case Western Reserve University, 1990.
- CLAIRE J. PURDY, Associate Controller (June 1991) B.S., The University of Akron, 1982.
- CHERYL PUREFOY, Director of Printing Services (May 2001) B.A., Hiram College, 1992.
- HELEN K. QAMMAR, Associate Professor of Chemical Engineering (January 1989) B.S., Syracuse University; M.S., Ph.D., University of Virginia, 1986.
- PIZHONG QIAO, Associate Professor of Civil Engineering (1999) B.S., East China Shipbuilding Institute; M.S., Florida Atlantic University; Ph.D., West Virginia University, 1997.
- JOY Y. QIU, Budget Administrator (September 1986) B.A. Fudan University; M.A., The University of Akron, 1989.
- JOHN E. QUEENER. Assistant Professor of Education (January 1996) B.A., College of Wooster; M.A., The Ohio State University; Ph.D., The University of Akron, 1995.
- ANTONIO R. QUESADA, Professor of Mathematics (1984) M.S., Ph.D., University of Florida, 1978.
- THOMAS J. QUICK, Research Associate in Geology (1983) A.S., B.S., M.S., The University of Akron, 1983.
- DONALD D. QUINN, Associate Professor of Mechanical Engineering (1995) B.M.E., Georgia Institute of Technology; Ph.D., Cornell University, 1995.
- RODERIC P. QUIRK, Distinguished Professor of Polymer Science; Kumho Professor of Polymer Science (October 1983) B.S., Rensselaer Polytechnic Institute; M.S., Ph.D., University of Illinois, 1967.
- NEAL C. RABER, Associate Professor of Mathematics (1972) B.S.Ed., Kent State University; M.S., Ph.D., The Ohio State University, 1972.
- PATRICIA A. RAIFF, Clinical Instructor (2001) B.S., M. Ed., Kent State University, 1979.
- PENNY RAKOFF, Professor of Art (1978) B.F.A., University of Michigan at Ann Arbor; M.F.A., Rochester Institute of Technology, 1976.
- HARRIDUTT RAMCHARRAN, Professor of Finance and International Business (1986) B.S., Mankato State College; M.A., Ph.D., State University of New York at Binghamton, 1978.
- SUSAN E. RAMLO, Associate Professor of General Technology (1994) B.S., Mount Union College; M.S., Miami University, 1986.
- REX D. RAMSIER, Assistant Professor of Physics; Assistant Professor of Chemistry (1996) B.S., M.S., The University of Akron; Ph.D., University of Pittsburgh, 1994.
- CYNTHIA D. RAMSTHALER, Assistant to the Dean, College of Fine and Applied Arts (August 1984) B.A., Kent State University, M.A., The University of Akron, 1995.
- ANDREW S. RANCER, Professor of Communication (August 1991) B.A., M.A., Queens College; Ph.D. Kent State University, 1979.
- SCOTT P. RANDBY, Assistant Professor of Technical Mathematics (1997) B.S., Grove City College; M.S., Ph.D., The Ohio State University, 1991.
- SUE A. RASOR-GREENHALGH, Associate Professor of Family and Consumer Sciences (1987) A.A., B.S., Morehead State University; M.S., University of Southern California, 1982.
- DARIUS RASTOMJI, Professor of Computer Information Systems; Professor of Marketing and Sales Technology; Associate Chair, Business Technology (1980) B.Comm., M.Comm., University of Poona; A.A.S., M.S.Ed., Ph.D., The University of Akron, 1987.
- JAMES S. RAY, Accountant Senior (October 1981) B.S., The University of Akron, 1980.
- NARENDER P. REDDY, Professor of Biomedical Engineering (March 1981) B.E., Osmania University; M.S., University of Mississippi; Ph.D., Texas A&M University, 1974.
- DAVID A. REDLE, Professor of Business Law; Department Chair of Finance (January 1981) B.B.A., University of Notre Dame; M.B.A., J.D., The University of Akron, 1980.
- CHARLENE K. REED, Assistant to the Dean, Education (October 1982) B.A., M.Ed., Ph.D., The University of Akron. 1997.
- DIANA C. REEP, Professor of English; Department Chair, English (1980) B.S., M.A., Ph.D., University of Wisconsin at Milwaukee, 1979.
- ELIZABETH A. REILLY, Associate Dean of the School of Law; Professor of Law; Research Fellow, Constitutional Law Center; C. Blake McDowell Jr. Professor (1984) B.A., Princeton University; J.D., The University of Akron, 1978.
- VALENTINA REMIG, Assistant Professor of Family and Consumer Sciences; Fellow, Institute for Life-Span Development and Gerontology (1997) B.S., College of Mount Saint Joseph; M.S., University of Houston; Ph.D., The Ohio State University, 1990.
- DARRELL H. RENEKER, Professor of Polymer Science (1989) B.Sc., Iowa State University; M.Sc., Ph.D., University of Chicago, 1959.
- PAULA R. PENKER, Assistant Professor of Nursing (1986) B.S.N., The Ohio State University; M.S.N., The University of Akron, 1986; R.N.
- NIKOLA RESANOVIC, Professor of Music (1983) B.M., M.M., The University of Akron; D.M.A., Cleveland Institute of Music, 1981.
- CYNTHIA A. REYNOLDS, Assistant Professor of Education (1996) B.S., M.Ed., Ph.D., Kent State University, 1996.
- SANGKEUN RHEE, Chief Engineer of Polymer Engineering (November 1999) B.S., Inha University, 1993.
- WILLIAM D. RICH, Associate Professor of Law; Research Fellow, Constitutional Law Center (August 1981) B.A., University of Rochester; J.D., University of Deriver; L.L.M., Harvard University, 1986.
- PAUL RICHERT, Law Librarian; Professor of Law (July 1977) B.A., M.S., University of Illinois; J.D., Tulane University of Louisiana, 1977.
- HELEN W. RICHTER, Professor of Chemistry (1984) B.A., The Woman's College of Georgia; M.S., Ph.D., The Ohio State University, 1974.

- LAURA RICKETT, Instructor in Accounting (1994) B.S., Bowling Green State University, 1989.
- WILLIAM G. RICKETT, Assistant to the Dean External Programs; Director, Law Alumni and Development (1982) B.S., M.A., The Ohio State University; J.D., The University of Akron, 1986.BRETT RIEBAU, Accountant (October 1999) B.S., The University of Akron.
- JEFFREY M. RIEDL, Assistant Professor of Mathematics (2001) B.S., Marquette University; Ph.D., University of Wisconsin-Madison, 1998.
- TRACY A. RILEY, Assistant Professor of Nursing (1992) B.S.N., Walsh College; M.S.N., Case Western Reserve University, 1992.
- PETER L. RINALDI, Professor of Chemistry; Director of the Molecular Spectroscopy Laboratory (May 1987) B.S., Polytechnic Institute of New York; Ph.D., University of Illinois, 1978.
- DAVID RITCHEY, Associate Professor of Communication (August 1990) B.A., Georgetown College; M.A., Ph.D., Louisiana State University, 1971.
- STANLEY E. RITTGERS, Professor of Biomedical Engineering; Director of the Institute for Biomedical Engineering Research (1987) B.S., State University of New York at Buffalo; M.S., Ph.D., The Ohio State University, 1978.
- MARCY R. RITZERT, Assistant Director of Admissions for Events (1998) B.A., M.A., The University of Akron, 1998.
- JANE F. ROBERTS, Professor of Social Services Technology; Fellow, Institute for Life-Span Development and Gerontology; Coordinator, Social Services Technology (Wayne College) (1985) B.A., Gettysburg College; M.S., Case Western Reserve University, 1975.
- PATRICK S. ROBERTS, Director of the Alumni Association (May 1993) B.S., The University of Akron, 1988.
- BENNIE P. ROBINSON, Assistant Professor of Bibliography (March 1987) B.A., Tougaloo College; M.L.S., Atlanta University, 1967.
- GREGORY F. ROBINSON, Director, Counseling, Testing and Career Center Training (July 1994) B.S., M.A., Ph.D., The Ohio State University, 1992.
- KEVIN S. ROBINSON, Assistant Professor of Statistics (2000) B.A., Messiah College; M.S., Ph.D., University of Florida, 2000.
- EMILY A. ROCK, Professor of Biology (Wayne College) (1983) B.S., University of Richmond; M.S., The University of Akron, 1984.
- PAMELA K. RODEHAVER, Administrative Systems Trainer (Novemer 2000) B.A., Northern Michigan University; M.B.A., Case Western Reserve University, 1989.
- MICHAEL J. RODRIGUEZ, Assistant Athletic Director for Business (December 1987) B.B.A., Cleveland State University; M.S.A., Ohio University, 1983.
- RAYMOND C. RODY, Associate Professor of Marketing: Associate Director of the Fisher Institute of Professional Selling (2001) B.B.A., University of Michigan, Ph.D., University of Southern California, 1992.
- GREGORY A. ROGERS, Director Institutional Planning (December 2000) B.S., M.Ed., Kent State University, 1981.
- MELVIN S. ROGERS, Educational Specialist for the Educational Talent Search (January 2000) B.A., The Ohio State University; M.A. The University of Akron, 1998.
- WILLIAM S. ROGERS, Inventory Accountant (January 1996) B.S., The University of Akron, 1968.
- JAMES R. ROGERS JR., Associate Professor Education; Fellow, Institute for Life-Span Development and Gerontology (1998) B.A., M.A., Ph.D., The University of Akron, 1993.
- BETTY J. ROGGE, Instructor in Computer Services and Network Technology (Wayne College) (1998) A.A.B., A.A.S., B.S., The University of Akron, 1989.
- MARLESA A. RONEY, Vice President for Student Affairs; Adjunct Professor of Education (2000) B.S., M.S., Kansas State University; Ph.D., Purdue University, 1985.
- DEBORAH L. ROPER, Director of Compensation; Deputy Appointing Authority (1995) A. A., B.A., The University of Akron, 1985.
- KATHLEEN M. ROSS-ALAOLMOLKI, Associate Professor of Nursing; Coordinator, Master's Programs (August 1990) B.S.N., College of Mount Saint Joseph; M.S.N., Ph.D., Case Western Reserve University, 1985.
- VICKI D. ROSTEDT, Associate Professor of Social Science; Associate Professor of Marketing and Sales Technology (1994) B.A., B.S., M.B.A., Kent State University, 1983.
- ANDREW W. ROTH, Associate Director of Purchasing (December 1982) B.S., The University of Akron, 1981.
- MARY ANNE ROTHERMEL, Associate Professor of Management (1984) B.S., M.B.A., The University of Akron; Ph.D., The Ohio State University, 1981.
- JEANNE-HELENE ROY, Assistant Professor of Modern Languages (1995) B.A., University of Michigan; M.A., Ph.D., Comell University, 1995.
- BERNADETTE M. RUF, Associate Professor of Accounting (2001) B.A., State University-New York; M.A., Ph.D., Virginia State College, 1990.
- RICHARD A. RUMSEY, Director of Development (December 1996) A.A.S., Alfred University; B.S., State University of New York at Oneonta; M.Ed., Springfield College, 1991.
- JAMES M. RYON, Professor of Music (1984) B.S., Yale University; B.M., M.M., The Juilliard School, 1978.
- CHERYL S. SADLER, Assistant Professor of Nursing; Fellow, Institute For Life-Span Development and Gerontology (1989) B.S.N., University of Maryland; M.Ed., Howard University; M.S.N., Catholic University of America; Ph.D., The University of Akron, 1995.
- JOHN P. SAHL, Associate Professor of Law; Intellectual Property Center Fellow; Research Fellow; Constitutional Law Center (August 1991) B.A., Boston College; J.D., Vermont Law School; L.L.M., Yale University, 1989.
- PRISCILLA K. SAKEZLES, Assistant Professor of Philosophy (1995) B.A., M.A., University of South Florida; Ph.D., Florida State University, 1993.
- ATEF F. SALEEB, Professor of Civil Engineering (1983) B.Sc., Cairo University; M.Sc., Ph.D., Purdue University, 1981.
- LINDA M. SALIGA, Associate Professor of Mathematics (1993) B.S.E., Missouri Western State College; M.S., Ph.D., University of Missouri-Rolla, 1993.
- RONALD L SALISBURY, Associate Professor of Biology (1982) A.B., Greensboro College; M.S., University of Richmond; Ph.D., Virginia Commonwealth University, 1979.
- BETH L. SAMPSEL, Director of University Communications (October 1999) B.A., The Ohio State University, 1980.

- TERRIE L. SAMPSON, Assistant Director of Research Development (July 1995) B.A., The University of Akron, 1993.
- WILLIAM D. SAMPSON, Assistant Foundation Accountant (February 1999) B.S., The University of Akron, 1996.
- JEFFREY M. SAMUELS, David L. Brennan Professor of Law; Director, Intellectual Property and Technology Center; Intellectual Property Center Fellow (1998) B.A., Colgate University; J.D., Albany Law School, 1975.
- EROL SANCAKTAR, Professor of Polymer Engineering (January 1996) B.S., Robert College, Instanbul; M.S., Ph.D., Virginia Polytechnic Institute and State University, 1979.
- RAYMOND E. SANDERS, Associate Professor of Psychology; Senior Fellow, the Institute for Life-Span Development and Gerontology (1969) B.A., M.A., Ph.D., University of Arizona, 1969.
- NEIL B. SAPIENZA, Professor of Art (1987) B.F.A., Ohio University; M.S., Brooks Institute at Santa Barbara, 1987.
- FRA D. SASOWSKY, Associate Professor of Geology; Director of Environmental Studies (1995) B.S., University of Delaware; M.S., Ph.D., Pennsylvania State University, 1992.
- JOHN R. SAVERY, Assistant Professor of Education (2000) B.Ed., M.Ed., University of Calgary; Ph.D., Indiana University, 1996.
- SCOTT D. SAWYER, Assistant Professor of Mechanical Engineering (1998) B.S.M.E., Milwaukee School of Engineering; M.S.M.E., Ph.D., Purdue University, 1997.
- JEFFRY D. SCHANTZ, Assistant Professor of Technical Writing and Composition (1997) B.A., M.A., Youngstown State University, Ph.D., Case Western Reserve University, 1998.
- KAREN R. SCHEEL, Assistant Professor of Education (2000) B.A. University of California, Santa Cruz; M.A., Ph.D. University of Iowa 1999.
- MARY G. SCHILLER, Professor of Music (1982) B.M., University of North Carolina at Greensboro; M.M., D.M.A., The Ohio State University, 1979.
- VICTORIA M. SCHIRM, Professor of Nursing; Senior Fellow, the Institute for Life-Span Development and Gerontology (1987) B.S., M.S., Penn State University; Ph.D., Case Western Reserve University, 1987.
- SUSAN M. SCHMIDT, Project Manager Student-Alumni, Academic, Research (1975) B.S., M.S., Purdue University, 1970.
- MELANIE L. SCHNEIDER, Assistant Director of Athletic Communications (1999) B.S., Northwestem University, 1998.
- MAE N. SCHREIBER, Associate Professor of Bibliography (1989) B.S., The Ohio State University; M.L.S., Simmons College, 1988.
- CAROLYN R. SCHUBERT, Instructor in Nursing (1995) B.S., M.S., University of Maryland, 1983. GARY A. SCHULLER, Instructor in Survey and Construction Engineering Technology (1999) A.S.,
- Stark Technical College; B.A., The University of Akron, 1989. PAMELA ANN SCHULZE, Assistant Professor of Family and Consumer Sciences (2000) B.A.,
- Southeastern LA University; M.A., Ph.D., University of Connecticut, 2000.
- ROBERT C. SCHWARTZ, Assistant Professor of Education (2000) B.S., M.Ed., Ed.S., Ph.D., University of Florida, 1997.
- KAREN A. SCHWARZ, Associate Professor of Nursing; Fellow, the Institute for Life-Span Development and Gerontology (1995) B.S.B., University of Illinois; M.S.N., The University of Akron; Ph.D., Case Western Reserve, 1995.
- ALLEN L. SEHN, Assistant Professor of Civil Engineering (January 1990) B.S.C.E., M.S.C.E., South Dakota School of Mines and Technology; Ph.D., Virginia Polytechnic Institute and State University, 1990; P.E., Ohio, Virginia.
- ROBERT H. SEIPLE, Manager of Applied Research (1984) B.A., Youngstown State University; M.A., The University of Akron, 1985.
- NANCI SELF, Coordinator Educational Talent Search (March 1998) B.A., Antioch University; M.A., University of California, 1994.
- MICHAEL D. SERMERSHEIM, Associate Vice President; Deputy General Counsel; Industrial Securities Supervisor (December 1976) B.A., J.D., The University of Akron, 1973.
- KIMBERLY S. SHAMSI, Academic Adviser and Coordinator Career Planning (Wayne College) (August 1993) B.S., M.A., Bowling Green State University, 1992.
- RICHARD L. SHANKLIN, Associate Professor of Music (1982) B.S., Illinois State University; M.M.Ed., North Texas State University, 1973.
- LINDA SHANKS, Instructor in Nursing (2000) B.A., Baldwin-Wallace College; D.N.S., M.S.N., Case Western Reserve University, 1989.
- ROBERT J. SHARDY, SR., Director of Engineering Computer and Network Services (August 1984) B.S., The University of Akron, 1972.
- DOUGLAS V. SHAW, Associate Professor of Public Administration and Urban Studies (1972) B.A., Lebanon Valley College; M.A., Brown University; Ph.D., University of Rochester, 1972.
- DANIEL B. SHEFFER, Associate Professor of Biomedical Engineering; Associate Professor of Biology; Director, Biostereometrics Laboratory, IBER (July 1980) B.S., M.Ed., Northwestern State College; Ph.D., Texas A&M University, 1976.
- DIANE T. SHOVESTULL, Manager of Payroll (1994) B.S., David Lipscomb College, 1986. RAYMOND SIBBERSON, Professor of Respiratory Care Technology (1978) A.A.S., Cuyahoga
- Community College; B.S.Ed., M.S.T.E., The University of Akron, 1981.
 RUSSELL D. SIBERT, Vice President of Board Operations; Assistant Secretary of the Board of Trustees (February 1995) B.A., M.S.T.E., The University of Akron, 1989.
- Instees (February 1995) B.A., M.S.T.E., The University of Akron, 1989. LOREN SIEBERT, Assistant Professor of Geography and Planning (1997) B.A., Western Washington
- State College; M.A., Ph.D., University of Washington, 1997. SANDRA L. SIEDLECKI, Instructor in Nursing (1993) B.S.N., M.S.N., The University of Akron, 1992.
- S. MARC SILLING, Coordinator of Testing Services and Psychologist (November 1981) B.A., Marietta College; M.A., Cleveland State University; Ph.D., Kent State University, 1981.
- STANLEY B. SILVERMAN, Professor of Social Science (January 1981) B.S., The Ohio State University, M.A., Middle Tennessee State University, 1973.
- FRANKLIN B. SIMMONS, III, Associate Professor of Management (January 1982) B.A., M.A., Ph.D., University of Cincinnati; J.D., The University of Akron; L.L.M., Cleveland State University, 1991; C.P.M.
- SHERRY A. SIMMS, Assistant Professor of Art (2001) B.F.A., The University of Akron, M.F.A., State University of New York-New Paltz, 1998.
- LISA SIMONS, Coordinator, Access Service (Wayne) (January 1998) B.A., The University of Akron, 1987.
- JAMES M. SINGLETARY, Coordinator of Academic Support Services (June 1999) B.A., Youngstown State University; M.A., West Virginia University, 1987.

- JAMES R. SLOWIAK, Professor of Theatre Arts (1989) B.A., Macalester College; M.F.A., University of California-Irvine, 1985.
- DANIEL J. SMITH, Professor of Chemistry; Faculty Research Associate, IPS (1977) B.S., Wisconsin State University; Ph.D., University of California at Berkeley, 1974.
- FORREST SMITH, Professor of Biology (Wayne College) (1975) B.A., Hiram College; M.S., Purdue University; M.A., Kent State University, 1982.
- FREDERICK T. SMITH, Associate Professor of Dance (August 1990) B.A., University of Colorado; M.F.A., University of California at Irvine, 1990.
- LOIS M. SMITH, Associate Controller (December 1980) B.A., Walsh College, 1976.
- MELISSA B. SMITH, Department Budget/Fiscal Administrator Senior (January 2001) B.S., Ashland College; M.B.A., Kent State University, 1996.
- MONICA H. SMITH, Associate Professor of Mathematics (1983) B.A., Walsh College; M.S., University of Notre Dame, 1982.
- PRISCILLA R. SMITH, Assistant Professor of Social Work (1995) A.B., Indiana University; M.S.W., Washington University; Ph.D., St. Louis University, 1988.
- ROREY SMITH, Director of Academic Success Programs (Oct 2000) B.B.A.; University of Michigan-Ann Arbor; J.D., University of Toledo, 1998.
- SHANNON DANIEL SMITH, Assistant Professor of Education (2000) M.A., Ashland University, Ph.D., Oregon State University, 2000.
- YVONNE M. SMITH, Coordinator of the Nursing Outreach Program (Wayne College) (May 1999) A.D., Kent State University; B.S.N., M.S.N., The University of Akron, 1994.
- LYNN A. SMOLEN, Associate Professor of Education (1981) B.A., American University; M.Ed., Ph.D., University of Florida, 1981.
- ANDREA F. SNELL, Associate Professor of Psychology (1994) B.A., Agnes Scott College; M.S., Georgia Institute of Technology; Ph.D., The University of Akron, 1995.
- LARRY D. SNIDER, Professor of Music (1977) B.S., Illinois State University; M.M.E., North Texas University; D.M.A., University of Illinois, 1983.
- ALEXI SOKOLOV, Assistant Professor of Polymer Science (September 1998) Ph.D., Novosibirsk State University, 1986.
- NANCY M. SOMERICK, Professor of Communication (1978) B.S.J., Ohio University; M.A.J., Kent State University; Ph.D., Ohio University, 1974.
- GANGBING SONG, Assistant Professor of Mechanical Engineering; Director, Smart Materials and Structures Laboratory (1998) B.S., Zhejiang University; M.S., Ph.D., Columbia University, 1995.
- CHRISTINE SOPKO, Assistant Director of Financial Aid (1997) B.F.A., Bowling Green State University, 1993.
- MARK E. SOPPELAND, Professor of Art (1976) B.F.A., University of Colorado; M.F.A., The Ohio State University, 1976.
- ERIC SOTNAK, Associate Professor of Philosophy (1995) B.A., Gustavus Adolphus College; M.A., University of Wisconsin; Ph.D., University of Rochester, 1994.
- ANNETTE A. SOUARE, Public Services Librarian (1994) B.A., Cleveland State University; M.L.S., University of Pittsburgh, 1994.
- SUSAN D. SPEERS, Professor of Theatre Arts (1988) B.A., M.A., University of Houston; Ph.D., University of California at Santa Barbara, 1982.
- JAMES C. SPERLING, Professor of Political Science (1988) B.A., University of California at Santa Barbara; M.A., Johns Hopkins University; Ph.D., University of California at Santa Barbara, 1986.
- CYNTHIA SPERRY, Assistant Women's Basketbell Coach (1997) B.S., Ashland College; M.A., The University of Akron, 1997.
- JULIA A. SPIKER, Assistant Professor of Communication (1999) B.A., John Carroll University; M.S., University of Southwestern Louisiana; Ph.D., University of Oklahoma, 1998.
- J. D. SPINNER, Graphic Designer (November 1995) B.S.D., University of Cincinnati, 1988.
- CYDNEY SPOHN, Instructor in Dance (1998).
- ERIC A. SPONSELLER, Assistant Director Institutional Reporting (January 2001) B.S., The University of Akron; M.B.A., Kent State University, 1995.
- GARY N. SPONSELLER, Enterprise Systems Programmer (July 1977) B.A., B.A., The University of Akron, 1977.
- TIRUMALAI S. SRIVATSAN, Professor of Mechanical Engineering (1987) B.E., University of Bangalore; M.S., Ph.D., Georgia Institute of Technology, 1984.
- THOMAS D. STACY, Assistant Football Coach (January 1995) B.A., Bowling Green State University, 1981.
- JOHN F. STAFFORD JR., Assistant Director of Student Financial Aid (July 1979) B.S., Hampton Institute; M.Ed., Kent State University, 1979.
- DAVID B. STARK, Associate Professor of Statistics (1981) B.A., Weber State College; M.S., J.D., Brigham Young University; Ph.D., University of Texas at Austin, 1981.
- DAVID N. STEER, Assistant Professor of Geology (1999) B.S., United States Military Academy; M.S., Ph.D., Cornell University, 1996.
- RICHARD P. STEINER, Associate Professor of Statistics (1983) B.S., Grove City College; M.S., Clarion State College; M.P.H., Ph.D., University of Michigan, 1985.
- DAVID B. STEPHEN, SR., Director of Residence Life and Housing (1995) A.A., Los Angeles Valley College; B.S., Northern Arizona University; M.A., University of Redlands; M.Ed., Ph.Ed., Oregon State University, 1982.
- CHARLES R. STEPHENS, Coordinator of Minority Student Advising Services/Academic Adviser (August 1979) B.A., Wilberforce University; M.Ed., Kent State University, 1970.
- EUGENE STEPHENS, Director of Purchasing (October 1990) B.S.I.M., M.B.A., The University of Akron, 1981.
- RICHARD C. STEPHENS, Professor of Sociology; Director, Center for Social and Heelth Policy (1993) B.A., Louisiana State University; M.A., Ph.D., University of Wisconsin, 1971.
- HARVEY L. STERNS, Professor of Psychology; Director of the Institute for Life-Span Development and Gerontology; Senior Fellow, Institute for Life-Span Development and Gerontology (1971) B.A., Bard College; M.A., State University of New York at Buffalo; Ph.D., West Virginia University, 1971.
- SHERYL A. STEVENSON, Associate Professor of English (1986) B.A., M.A., Ph.D., University of Maryland, 1986.
- JO ANNE STEWART, Vocational Coordinator (1997) B.A., M.A., The University of Akron, 1997.
- CATHERINE E. STILLER, Instructor in Nursing (2000) B.S.N., M.S.N., Edinboro State College, 1992.
- JERRY N. STINNER, Professor of Biology; Department Chair of Biology (1982) B.S., California Baptist College; Ph.D., University of California at Riverside, 1980.

- SUSAN R. STOCK-WARD, Psychologist (1995) B.A., University of Illinois at Urbane; M.A., Ph.D., Iowa State University, 1995.
- NANCY L. STOKES, Associate Provost for Academic Policies, Procedures and Reviews; Professor of Bibliography (November 1984) B.M.E., The University of Akron; M.M., Kent State University, 1986.
- ISABELLE A. STOMBAUGH, Associate Professor of Family and Consumer Sciences (1989) B.S., M.S., Ph.D., The Ohio State University, 1987.
- DEBORAH G. STONE, Coordinator of the Strive Toward Excellence Program (May 1988) B.S., Bowling Green State Univesity, 1978.
- ROBIN STONE, Academic Advisor for Upward Bound and STEP (May 1997) B.A., M.A., Kent State University, 1996.
- DONALD P. STORY, Associate Professor of Mathematics (1976) B.A., M.A., Ph.D., University of Florida, 1976.
- CATHERINE A. STOYNOFF, Compensation Analyst (1997) B.S., The University of Akron, 1999.
- RICHARD W. STRATTON, Associate Director of Institutional Assessment; Associate Professor of Economics (1978) B.A., Drew University; M.A., Ph.D., University of Connecticut, 1977.
- JOSEPH E. STRAW, Assistant Professor of Bibliography (1994) B.S., M.L.S., M.A., Kent State University, 1994.
- ELIZABETH J. STROBLE, Dean in the College of Education; Professor of Education (September 2000) A.B., Augustana College; M.A., Southern Illinois University-Edwardsville; Ph.D., University of Virginia, 1987.
- JAMES T. STRONG, Associate Dean in the College of Business Administration; Professor of Marketing (1989) B.A., Lafayette College; M.B.A., University of Toledo; Ph.D., Drexel University, 1990.
- DENISE H. STUART, Assistant Professor of Education (2001) B.A., M.Ed., Ph.D., Kent State University, 1999.
- DONGWEI SU, Assistant Professor of Economics (1997) B.A., Xiamen University; M.A., Ph.D., The Ohio State University, 1997.
- LINDA M. SUBICH, Professor of Psychology; Department Chair of Psychology; Fellow in the Institute for Life Span Development and Gerontology (1981) B.S., University of Wisconsin at Milwaukee; M.A., Ph.D., The Ohio State University, 1981.
- LEE-JEN SUEN, Assistant Professor of Nursing (2000) B.S.N., Duke University; M.S.N., Ph.D., Case Western Reserve University, 2000.
- BONNA SULLIVAN, Assistant Professor of Education (1999) B.S., M.Ed., Ph.D., The University of Pittsburgh, 1998.
- DENNIS K. SULLIVAN, Professor of Manufacturing Technology (1977) B.S.B.A., M.S.T.E., The University of Akron, 1974.
- CYNTHIA M. SUMMBERS, Assistant to the Dean (Wayne College) (May 2000) B.S., Western Carolina University, 1986.
- JOSHUA PAUL SUTTER, Associate Director of Athletic Communications (July 2000) B.S., Ohio University; M.S., University of Tennessee-Knoxville, 1996.
- LANCE M. SVEHLA, Assistant Professor of English (1997) B.A., University of Nebraska; M.A., Ph.D., University of New Hampshire, 1997.
- DANIEL J. SVYANTEK, Associate Professor of Psychology (1987) B.A., Indiana University; M.A., Ball State University; Ph.D., University of Houston, 1987.
- GERARD M. SWEENEY, Professor of English (1971) B.S., Manhattan College; M.A., New York University; Ph.D., University of Wisconsin, 1971.
- MICHAEL G. SWEITZER, Head Volleyball Coach (July 1991) B.A., The University of Akron, 1990.
- TERRI JO SWIM, Assistant Professor of Education (June 1999) B.S., Purdue University, Ph.D., The University of Texas-Austin, 1997.
- VERNON L. SYKES, Assistant Professor of Social Science (1982) B.B.A., Ohio University; M.S., Wright State University; M.P.A., Kent State University, 1982.
- JOHN P. SZABO, Professor of Geology; Department Chair of Geology (1975) B.S., University of Notre Dame; Ph.D., University of Iowa, 1975.

LYNNE A. SZABO, Accountant (July 1979) B.S., A.A.B., The University of Akron, 1987.

- BAFFOUR K. TAKYI, Assistant Professor of Sociology (1997) B.A., University of Ghana; M.A., Ph.D., SUNY State University, 1993.
- JAY TARBY, Multi-Media Producer (January 1998) B.A., Ohio State University; M.A., San Diego State University, 1994.
- MICHAEL J. TASCHNER, Professor of Chemistry (1982) B.S., University of Wisconsin; Ph.D., Iowa State University, 1980.
- MARK B. TAUSIG, Professor of Sociology (1983) B.A., University of Wisconsin; M.A., Cornell University; Ph.D., State University of New York at Albany, 1979.
- BRUCE C. TAYLOR, Associate Professor of Biomedical Engineering; Associate Professor of Electrical Engineering (1988) B.A., Hiram College; M.A., Ph.D., Kent State University, 1971.
- EVELYN TAYLOR, Manager, Program for Nutrition Intervention (1991) B.S., M.S., The University of Akron, 1988.
- JANICE D. TAYLOR, Director of Outreech and Retention Services (July 1999) B.A., M.Ed., Kent State University; Ph.D., The University of Georgia, 1997.
- COLLEEN M. TEAGUE, Assistant Professor of Business and Office Technology (Wayne College) (1994) A.D., Columbus Technical Institute; B.S., M.S., The University of Akron, 1995.
- CLAIRE A. TESSIER, Professor of Chemistry (August 1990) B.S., University of Vermont; Ph.D., State University of New York at Buffalo, 1982.
- WILLIAM THELIN, Associate Professor of English (2001) B.A., M.A., California State College, 1996. MICHAEL J. THOMAS, Director of Athletics (October 2000) B.S., Colorado State University; M.S.,
- Western Illinois University, 1986. **TRACY A. THOMAS**, Assistant Professor of Law; Intellectual Property Center Fellow (1998) B.A., Miami University of Ohio; J.D., Loyola Law School of Los Angeles; M.P.A., California State
- University (Long Beach), 1991.
 WARD F. THOMAS, Assistant Professor of Public Administration and Urban Studies (2001) B.A., University of Oregon, M.A., San Francisco State University, Ph.D., University of Celifornia-Los Angeles, 1997.
- OLETHA THOMPSON, Assistant Vice President/Special Services for Students (Merch 1984) B.A., M.Ed., Howard University, 1973.
- PHILIP G. THOMSON, Associate Professor of Music (1994) B.M., University of Toronto; M.M., The Juilliard School, 1981.
- SARAH A. THORLEY, Coordinator of Academic Programs (January 1991) A.A.S., B.A., The University of Akron; M.L.S., Kent State University, 1994.

- DAVID M. TOKAR, Associate Professor of Psychology (1993) B.A., The University of Akron; M.A., Ph.D., Southern Illinois University at Carbondele, 1993.
- BROOKS A. TOLIVER, Associate Professor of Music (1995) B.A.M., M.A.M., Ph.D., University of California at Los Angeles, 1994.
- WILLIAM E. TORGLER JR., Academic Adviser II (1985) B.A., M.A., The University of Akron, 1990.
- KENNETH J. TORISKY, Public Relations Representative (May 2001)
- PAUL D. TOTH, Assistant Professor of Modern Languages (2001) B.A., John Carroll University; M.A., Ph.D., Pittsburg University.
- GREGORY TOWNSEND, Assistant Professor of Physics (1996) B.S., B.S., B.S., M.S., Ph.D., Victoria University of Wellington; M.A., Notre Dame Apostolic Catechetical Institute, 1987
- MARY TRIECE, Assistant Professor of Communication (1998) B.B.A., M.A., Ph.D., University of Texas, 1997.
 JOHN H. TROCHE, Professor of Manufacturing Technology (1987) B.S., Purdue University; M.A.,
- Kent State University, 1977.
- JANICE S. TROUTMAN, Associate Professor of Art (August 1989) B.F.A., M.A., Kent State University, 1995.
- IGOR A. TSUKERMAN, Associate Professor of Electrical Engineering (1995) M.S., Ph.D., Polytechnical University of Leningrad, Russia, 1988.
- RALPH B. TUREK, Professor of Music (1980) B.S., M.M., Duquesne University, D.M.A., University of Cincinnati, 1975.
- PETER B. TURK, Professor of Marketing (1968) B.S., The Ohio State University; M.S., University of Illinois at Urbana; Ph.D., University of Wisconsin at Madison, 1977.
- CAROL M. TURNER, Assistant Professor of Chemistry (Wayne College) (1999) B.S., Youngstown State University; Ph.D., The University of Akron, 1997.
- DUDLEY B. TURNER, Associate Professor of Communication; Director of the School of Communication (1986) B.A., Ashbury College; M.A., The University of Akron; Ph.D., Purdue University, 1988.
- MONTE E. TURNER, Professor of Biology (1982) B.S., M.S., Brigham Young University; Ph.D., University of Georgia, 1982.
- TYRONE M. TURNING, Associate Professor of Speech (Wayne College) (July 1980) B.A., Southern Illinois University; M.A., Ed.D., Northern Illinois University, 1974.
- KATHLEEN TUSAIE-MUMFORD, Instructor in Nursing (2000) B.S.N., Slippery Rock State College; M.S.N., University of Pittsburgh, 1985.
- KEITH UECKER, Assistant Football Coach (March 1999) B.S., Auburn University, 1988.
- OKECHUKWU UGWEJE, Assistant Professor of Electrical Engineering (1997) B.S., M.S., Southem III University; Ph.D., Florida Atlantic University, 1997.
- CHERYL L. URBAN, Assistant to the President for Special Projects (1985) Assoc., B.A., The University of Akron, 1990.
- ANN L. USHER, Assistant Professor of Music (2000) B.M., University of Northern Iowa; M.M., Kent State University, 1993.
- RAMESH VAKAMUDI, Director of Campus Planning (1983) B.A., Jawaharial Nehru Technical University; M.A., The University of Akron, 1985.
- SHERNAVAZ VAKIL, Assistant Professor of Education (2000) B.Com., LLB., Bombay University; M.Ed., Ed.D., The University of Memphis, 1994.
- SHERMAN D. VANDER ARK, Professor of Music (1973) A.B., Calvin College; M.A., Ph.D., The Ohio State University, 1970.
- GEORGE VAN HORNE, Director of Development, Intercollegiate Athletics and Annual Fund (March 2000) B.A., The University of Akron, 1998.
- ROBERT J. VEILLETTE, Associate Professor of Electrical Engineering (August 1990) B.S.E.E., Virginia Polytechnic Institute and State University; M.S.E.E., Clemson University; Ph.D., University of Illinois at Urbana, 1990.
- BRIAN VEREB, Women's Swimming Coech (March 1998) B.A., College of Wooster; M.A., Ball State University, 1997.
- MARY C. VERSTRAETE, Associate Professor of Biomedical Engineering; Coordinator, Bachelor of Science in Biomedical Engineering Program (1988) B.S., M.S., Ph.D., Michigan State University, 1988.
- JOHN VESALO, Coordinator Academic Achievement Programs; Coordinator, Pre-Engineering Programs (1972) B.S., B.A., M.A., The University of Akron, 1974.
- WILLIAM H. VIAU, Assistant Executive Director of Human Resources; Appointing Authority (1994) B.S., Miami University; M.S., Cleveland State University; J.D., The University of Akron, 1994.
- TIMOTHY R. VIERHELLER, Professor of Physics; Director of Adjunct Faculty (Wayne College) (1987) B.S., Manetta College; M.S., Ohio University; Ph.D., The University of Akron, 1994.
- BINDKGANAVALE S. VIJAYARAMAN, Associate Professor of Management (1989) B.Sc., M.Sc., Bangalore University; M.S.D.S., Ph.D., Georgia State University, 1987.
- MISTY M. VILLERS, Fiscal Officer Capital Planning and Facilities Management (1997) B.S., The University of Akron, 1992.
- LAURA A. VINNEDGE, Assistant Professor of Art (1999) B.S., Western Michigan University; M.F.A., University of Notre Dame, 1992.
- JOHN L. VOLLMER, Assistant Professor of Family and Consumer Sciences (1999) B.A., Drew University; M.S., Pratt Institute, 1973.
- ERNST D. VON MEERWALL, Associate Dean of the College of Polymer Science and Polymer Engineering; Distinguished Professor of Physics; Distinguished Professor of Chemistry; Distinguished Professor of Polymer Science; Faculty Research Associate, Insitute of Polymer Science (1971) B.S., M.S., Northern Illinois University; Ph.D., Northwestern University, 1970.
- VLADA VUKADINOVIC, Associate Professor of Art (1983) A., Cuyahoga Community College; B.F.A., Cleveland State University; M.F.A., Kent State University, 1982.
- CHARLES A. WAEHLER, Associate Professor of Psychology; Training Director College Program Counseling Psycology (1989) B.S., Suffolk University; M.Ed., Plymouth State College; M.A., Ph.D., Northwestern University, 1989.
- A. MARTTIN WAINWRIGHT, Associate Professor of History (1989) B.A., Emory University; M.A., Ph.D., University of Wisconsin at Madison, 1989.
- ANGELA WALKER, Assistant Professor of Business Management Technology (1989) B.S., Kent State University, M.B.A., Cleveland State University, 1982.
- CECHLE WALKER, Coordinator, McNair Scholars Program (May 2000) B.S., Minnie Hofmeyr College; M.S.W., Ed.D., Western Michigan University, 1991.

- DALE O. WALKER, Director of College Administrative Services (1976) B.S., The University of Akron, 1984.
- HELEN F. WALKERLY, Assistant Professor of Public Service Technology (Wayne College) (August 1994) A.A.S., Wayne Community College; B.S.W., The University of Akron; M.S.W., Ohio State University, 1988.
- JEFFREY J. WALLACE, Associate Provost and Special Assistant to the President for Campus Diversity; Associate Professor of Social Science (July 1995) B.A., State University of New York at Fredonia; M.Ed., Ph.D., State University of New York at Buffalo, 1980.
- PATRICIA A. WALLACE, Associate Professor of Educational Technology (1995) B.S.Ed., M.S., State University of New York at Fredonia, 1984.
- C. MICHAEL WALSH IV, Director, Trial Litigation Clinic; Staff Attorney (December 1993) B.S., J.D., The University of Akron, 1991.
- HEATHER L. WALTER, Assistant Professor of Communication (1999) B.A., M.A., Ph.D., SUNY College at Buffalo, 1999.
- SHELLEY WALTONEN-MOORE, Assistant Director, Counseling, Testing and Career Center -Placement (January 1998) B.A., Walsh University; M.A., The University of Akron, 1992.
- GUD-XIANG WANG, Assistant Professor of Mechanical Engineering (1998) B.S., M.S., Xi'an Jiaotong University; Ph.D., University of California at Santa Barbara, 1995.
- SHI-CING WANG, Professor of Polymer Science (2000) B.S., Wuhan University; Ph.D., University of Chicago, 1987.
- PING WANG, Assistant Professor of Chemical Engineering (1999) B.E., M.E., East China University of Science and Technology; PhD., Tufts University, 1995.
- WENDY WAREHAM, Director of Development (1999) B.A., University of Pittsburgh, 1981.
- DAVID G. WASIK, Assistant to the VP/CIO Security, Disaster Recovery and Special Projects (June 1973) B.S., The University of Akron, 1973.
- WAYNE H. WATKINS, Director of the Fitzgerald Institute for Entrepreneurial Studies (September 2000) B.S., Utah State University; M.B.A., J.D., University of Utah, 1983.
- KATHY R. WATSON, Interim Executive Director of Human Resources (June 1978) A.A.B., B.S., The University of Akron, 1988.
- MYRA J. WEAKLAND, Assistant Director of Graduate Business Advising (October 1993) B.A., M.B.A., The University of Akron, 1990.
- JOHN A. WEAVER, Associate Professor of Education (January 1996) B.A. Alderson Broaddus College; M.A., Villanova University; Ph.D., University of Pittsburgh, 1994.
- DONNA S. WEBB, Professor of Art (1981) B.F.A., Eastern Michigan University; M.F.A., University of Michigan, 1971.
- DEBORAH S. WEBER, Professor of Social Science (1982) B.A., Denison University; M.A., The Ohio State University, 1972.
- STEPHEN C. WEEKS, Associate Professor of Biology (1994) B.A., M.A., University of California; Ph.D., Rutgers University, 1991.
- MARCIA E. WEIDKNECHT, Instructor in Polymer Science (August 1989) B.S., University of New Hampshire, 1971.
- PAUL B. WEINSTEIN, Associate Professor of History (Wayne College) (1992) B.A., Miami University; M.A., Case Western Reserve University, 1974.
- JOHN T. WELCH JR., Associate Professor of Electrical Engineering (1973) B.S., M.S., Ph.D., North Carolina State University at Raleigh, 1964.
- WENDY L WELDAY, Assistant University Registrar (July 1998) A.A.B., B.S., The University of Akron, 1996.
- KATHLEEN WELSH, Public Relations Representative (June 2001)
- EVONN N. WELTON, Assistant Professor of Education (1997) B.A., Ph.D., Kent State University; M.A., The University of Akron, 1990.
- CAROL R. WERHAN, Assistant Professor of Family and Consumer Sciences (1999) B.S., Oklahorna State University; M.S., Indiana State University, 1999.
- JAMES L. WERTH JR., Assistant Professor of Psychology; Fellow, Institute for Life-Span Development and Gerontology (2000) B.S., Texas Christian University; M.A., University of Nebraska; Ph.D., Aubum University, 1999.
- CHRYS WESDEMIOTIS, Professor of Chemistry (1989) B.S., M.S., Ph.D., Technical University of Berlin, 1979.
- ETHEL R. WHELAND, Associate Professor of Mathematics (1996) B.S., Ph.D., Pennsylvania State University, 1996.
- DEBORAH WHITE, Project Management and Continous Quality Improvement Officer (December 2000) B.A., The University of Akron; M.B.A., Baldwin-Wallace College, 1980.
- JAMES L. WHITE, Professor of Polymer Engineering; Director of the Institute of Polymer Engineering; H.A. Morton Professor of Polymer Engineering (July 1983) B.S.Ch.E., Polytechnic Institute of Brooklyn; M.S.Ch.E., Ph.D., University of Delaware, 1965.
- MELINDA L. WHITE, Accountant (February 2001) B.A., Mount Union College, 1979.

SYLVIA E. WHITE, Associate Professor of Communication (1993) B.A., University of Connecticut; M.A., Ph.D., The Ohio State University, 1982.

- SCOTT WIDMIER, Assistant Professor of International Business (1998) B.A., Texas Christian University; Ph.D., Arizona State University, 1998.
- ALLEN B. WILHELM III, Assistant Director, Alumni Association (March 1998) A.A. Lakeland Community College; B.A., The University of Akron, 1996
- AMY MARIE WILKENS, Assistant Director, Student Financial Aid (June 2000) B.A., Kent State University, 1993.
- ROCHELLE WILKINS TATE, Associate Director of Residence Life and Housing (1998) B.S., M.S., Illinois State University, 1989.
- TIMOTHY WILKINSON, Assistant Professor of Marketing and International Business (1998) B.S., The University of Wyoming; M.B.A., The University of Arkansas; Ph.D. The University of Utah, 1996.
- BONITA L. WILLIAMS, Assistant Dean, University College (March 1998) B.S., M.S., Ph.D., The University of Akron, 1994.
- BRIAN WILLIAMS, Assistant Football Coach (April 2001) B.S., Kentucky State University, 1986.
- DELMUS E. WILLIAMS, Dean of University Libraries; Professor of Bibliography (December 1991) B.S., University of Richmond; M.S.L.S., Kentucky State University; Ph.D., University of North Carolina at Chapel Hill, 1985.
- MARY B. WILLIAMS, Professor of Office Administration; Program Director of Advancing Up Program (1989) B.S., M.S., Memphis State University, 1977.

- MICHAEL A. WILLIAMS, Assistant Football Coach (February 1995) B.S., Iowa State University, 1977.
 MICHAEL M. WILLIAMS, Professor of Computer Information Systems (1982) B.S., Bowling Green State University; M.S., University of Wisconsin at Milwaukee, 1973, Ed.D., The University of Akron, 1996.
- GREGORY WILSON, Assistant Professor of History (2001) B.A., Christopher Newport University; M.A., George Mason University, 1993.
- JOSEPH M. WILSON, Instructor in Computer Service and Network Technology; Coordinator of Computer Service and Network Technology (Wayne College) (August 1990) A.A.S., B.S., Southerm Illinois University at Carbondale, 1987.
- LOUIS R. WILSON, IN, Coordinator of Academic Advising (Wayne College) (1992) B.A., The Ohio State University, M.A., Kent State University, 1992.
- N. MARGARET WINEMAN, Professor of Nursing; Director Nursing Research and Scholarly Activity; Coordinator, Doctoral Program (August 1990) B.A., Marymount Manhattan College; M.S.N., Yale University; Ph.D., University of Rochester, 1988.
- NIKKI W. WINGERSON, Associate Professor of Social Work; Field Coordinator in Social Work (1985) B.A., College of William & Mary; M.S.W., Smith College; Ph.D., University of Southern California, 1983.
- PAUL B. WINTERS, Assistant Head Football Coach; Offensive Coordinator (January 1995) B.S., M.S., The University of Akron, 1984.
- DAVID D. WITT, Professor of Family and Consumer Sciences (1983) B.A., M.A., Ph.D., Texas Tech University, 1983.
- SUSAN D. WTTT, Assistant Professor of Family and Consumer Sciences (1988) B.A., M.A., Ph.D., The University of Akron, 1995.
- DOUGLAS B. WOODS, Associate Professor of Business Management Technology (Wayne College) (1991) B.S., Ohio Northern University; M.A., Case Western Reserve University, 1984.
- STEPHANIE J. WOODS, Assistant Professor of Nursing (1987) B.S.N., Edinboro State College; M.S.N., Edinboro University, Ph.D., Wayne State University, 1997.
- GAYLE J. WORKMAN, Associate Professor of Physical and Health Education (1995) B.A., Bowling Green State University; M.S., Slippery Rock State College; Ph.D., The Ohio State University, 1996.
- Denise M. WRAY, Professor of Speech-Language Pathology and Audiology (1980) B.A., M.A., Ph.D., The University of Akron, 1985.
- SHELDON B. WRICE, Associate Professor of Technical Writing and Composition (1995) B.A., South Carolina State College; M.L.S., Atlanta University; M.A., M.S., Ed. D., The University of Akron, 1995.
- DIANNE A. BROWN WRIGHT, Associate Professor of Education (1991) B.A., M.S., Ph.D., Florida State University, 1984.
- PAUL J. WRIGHT, Assistant Cross Country/Track Coach; Instructor in Physical Education (January 1991) B.S., The University of Akron, 1990.
- CHRISTINE A. WYND, Professor of Nursing (January 1995) B.S., St. John College; M.S., The Ohio State University; Ph.D., Case Western Reserve University, 1989.
- MATTHEW WYSZYNSKI, Assistant Professor of Modern Languages (1998) B.A, The University of Akron; A.M., Ph.D., University of Michigan, 1996.
- SARA ANN WYSZYNSKI, Research Applications Trainer (November 2000) B.B.A., Ohio University, 1997.
- YINGCAI T. XIAO, Associate Professor of Computer Science (1995) B.S., Wuhan University, China; M.S., M.S., M.S., Ph.D., Ph.D., University of Alabama, 1994.

- PING YI, Assistant Professor of Civil Engineering (1996) B.S., Wuhan University of Hydraulic Electrical Engineering; M.S., Washington State University; Ph.D., University of Minnesota, 1992.
- HUI-CHU YING, Associate Professor of Art (1989) B.A., San Jose State University; M.F.A., West Texas State University, 1987.
- JANICE D. YODER, Professor of Psychology; Fellow, Institute of Life-Span Development and Gerontology (1998) B.A., Gettysburg College; M.A., Ph.D., State University of New York at Buffalo, 1979.
- RICHARD K. YODER, Coordinator of Academic Affairs (Wayne College) (1977) A.A., B.A., The University of Akron, 1977.
- WALTER H. YODER JR., Professor of Education; Director of Educational Field Experience (1971) B.A., Tufts University; M.A., New York University; Ed.D., Indiana University at Bloomington, 1971. GERALD W. YOUNG, Professor of Applied Mathematics; Program Coordinator of Mathematics
- (1985) B.S., The University of Akron; Ph.D., Northwestern University, 1985.
- WILEY J. YOUNGS, Professor of Chemistry (1990) B.A., State University of New York at Albany; Ph.D., State University of New York at Buffalo, 1980.
- LA VERNE C. YOUSEY, Professor of Respiratory Care Technology; Director of Respiratory Care Technology; Department Chair of Allied Health Technology (1976) B.A., Goshen College; M.S.T.E., The University of Akron, 1979.
- SAJIT ZACHARIAH, Assistant Professor of Education (1998) B.A., Loyola College; M.A., The University of Akron, 1992
- EDWARD A. ZADROZNY JR., Associate Professor of Music (1977) B.M.E., The Ohio State University; M.M., University of Illinois, 1975.
- MARIA A. ZANETTA, Associate Professor of Modern Languages (1995) B.A., National School of Fine Arts; M.A., Ph.D., The Ohio State University, 1994.
- JOHN J. ZARSKI, Professor of Education; Director of the Clinic for Child Study and Family Therapy; Fellow, Institute for Life-Span Development and Gerontology; Department Chair, Counseling and Special Education (1985) B.S., Bloomsburg State College; M.A., University of Maryland; Ph.D., Ohio University, 1975.
- JIANPING ZHU, Professor of Applied Mathematics; Department Chair, Mathematics and Computer Science (2001) B.S., Zhejiang University; M.S. Dalian Institute of Technology; Ph.D., State University of New York-Stony Brook, 1990.
- CHRISTOPHER J. ZIEGLER, Assistant Professor of Chemistry (July 2000) A.B., Bowdoin College; Ph.D., University of Illinois at Urbana-Champaign, 1997.
- NICHOLAS C. ZINGALE, Assistant Professor of Environment Health and Safety (1998) B.S., Bowling Green State University; M.B.A., Baldwin Wallace, 1993.
- JOHN F. ZIPP, Professor of Sociology; Department Chair of Sociology (1998) B.A., St. Joseph's College; M.A., Ph.D., Duke University, 1978.

Full-Time Teaching Faculty

(By College, School, and Department and the University Library) September 2001

Community and Technical College

Division of Allied Health Technology

CHAIR: Professor La Verne C. Yousey. PROFESSORS: Raymond Sibberson. ASSISTANT PROFESSORS: Melanie A. Ditchey, Rebecca L. Gibson, Richelle S. Laipply.

Division of Associate Studies

CHAIR: Professor Michael J. Jalbert.

PROFESSORS: Anna M. Barnum, Laura J. Johnson, Stanley B. Silverman, Deborah S. Weber.

ASSOCIATE PROFESSORS: Michael F. Johanyak, Vicki D. Rostedt, Sheldon B. Wrice.
ASSISTANT PROFESSORS: Irina A. Chernikova, Elizabeth A. Kennedy, Scott P. Randby, Jeffrey D. Schantz, Vernon L. Svkes.

Division of Business Technology

PROFESSORS: Janice L. Eley, Carol Gigliotti, Don V. Laconi, Elizabeth A. Lariviere Joyce E. Mirman, Darius Rastomji, Mary B. Williams, Michael M. Williams.

ASSOCIATE PROFESSORS: Russell K. Davis, III, Arthur V. George, Lawrence Gilpatric, Augustus L. Harper, Gwendolyn Jones, Rebecca L. McCollum, Susan H. Pope, Vicki D. Rostedt.

ASSISTANT PROFESSORS: Renee L. Croskey, Enoch E. Damson, Zarreen Farooqi, Jamal Feerasta, Kevin M. Feldt, Debra S. Keller, Janet S. Kropff, Angela Walker.

Division of Engineering and Science Technology

CHAIR: Professos J. Douglas Frampton.

PROFESSORS: John W. Edgerton, James D. Frampton, Paul R. John, Dennis K. Sullivan, John H. Troche.

ASSOCIATE PROFESSORS: Thomas M. Besch, James L. Brechbill, Lionel D. Haizlip, Wyatt Kilgalin, John J. Luthern, Susan E. Ramlo.

ASSISTANT PROFESSORS: Brian M. Ballou, Marcia C. Belcher, Thomas F. Lukach. INSTRUCTOR: Gary A. Schuller.

Division of Public Service Technology

CHAIR: Laura J. Johnson

PROFESSORS: David H. Hoover, John Mumper.

ASSOCIATE PROFESSORS: Fred A. Baldwin, Patricia A. Wallace.

ASSISTANT PROFESSORS: Richard L. Bennett, John M. Boal, Jill L. Dickie, Anthony J. LaSalvia, George E. Richards.

Buchtel College of Arts and Sciences

Biology

CHAIR: Professor Jerry N. Stinner.

PROFESSORS: Daniel L. Ely, Amy Milsted, Monte E. Turner.

ASSOCIATE PROFESSORS: John L. Frola, James H. Holda, Martha M. Kory, Randall J. Mitchell, Peter H. Niewiarowski, F. Scott Orcutt Jr., Donald W. Ott, Ronald L. Salisbury, Daniel Sheffer, Stephen C, Weeks.

ASSISTANT PROFESSORS: Brian P. Bagatto, Robert J. Duff, Lauchlan H. Fraser, Qin Liu, Peter Lavrentyev, Richard L. Londraville, Francisco B. Moore.

INSTRUCTOR: Wei Jen Chang.

Chemistry

CHAIR: Professor David S. Perry.

- DISTINGUISHED PROFESSORS: Joseph P. Kennedy, Gerald Koser, Emst D. von Meerwall.
- PROFESSORS: Kim C. Calvo, Roger B. Creel, James K. Hardy, H. James Harwood, Edward C. Lim, Robert R. Mallik, George R. Newkome, Helen W. Richter, Peter L. Rinaldi, Daniel J. Smith, Michael J. Taschner, Claire A. Tessier, Chrys Wesdemiotis, Wiley J. Youngs.

ASSOCIATE PROFESSORS: Julia R. Burdge.

ASSISTANT PROFESSORS: Matthew P. Espe, Jun Hu, Jutta Luettmer-Strathmann, David A. Modarelli, Rex D. Ramsier, Christopher J. Ziegler.

Classical Studies, Anthropology and Archaeology

CHAIR: Associate Professor Gary H. Oller. ASSOCIATE PROFESSORS: J. Clayton Fant ASSISTANT PROFESSORS: Carolyn Behrman

Economics

CHAIR: Professor Michael A. Nelson PROFESSORS: Gasper A. Garofalo, Randall H. King, Devinder M. Malhotra, Robert A. McGuire.

ASSOCIATE PROFESSORS: Elizabeth B. Erickson, Steven C. Myers, Richard W. Stratton. ASSISTANT PROFESSORS: Elizabeth B. Erickson, Steven C. Myers, Richard W. Stratton. ASSISTANT PROFESSORS: Sucharita Ghosh, Dongwei Su.

English

CHAIR: Professor Diana C. Reep.

PROFESSORS: Mark S. Auburn, Eric R. Birdsall, Joseph F. Ceccio, John Thomas Dukes, James J. Egan, William A. Francis, Antonia Forster, Mary K. Kirtz, Janet E. Marting, Arthur L. Palacas, Robert F. Pope Jr., Gerard M. Sweeney.

ASSOCIATE PROFESSORS: Norris B. Clark, Kerneth J. Pakenham, Daryl W. Palmer, Sheryl A. Stevenson, William Thelin.

ASSISTANT PROFESSORS: Alan S. Ambrisco, Janet Bean, Pascal P. Burna, Julie Drew, Sue Hum, Jon Miller, Lance M. Svehla.

INSTRUCTORS: Debra L. Deane, Martha McNamara.

Geography and Planning CHAIR: Professor Robert B. Kent.

PROFESSORS: Ashok K. Dutt, Lathardus Goggins, Charles B. Monroe, Richard E. Klosterman. ASSOCIATE PROFESSORS: Linda Barrett, Gjazi Falah, Kwadwo Konadu-Agyemang ASSISTANT PROFESSORS: Yu-Hung Hong, Loren Siebert.

Geology

CHAIR: Professor John P. Szabo. PROFESSORS: Lindgren L. Chyi, Annabelle Foos, David A. McConnell. ASSOCIATE PROFESSORS: Enriqueta C. Barrera, Laverne M. Friberg, Lisa E. Park, Ira Sasowsky ASSISTANT PROFESSORS: John A. Peck, David N. Steer.

History

CHAIR: Professor Walter L. Hixson

PROFESSORS: Shelley O. Baranowski, Constance B. Bouchard, Jane K. Leonard.

ASSOCIATE PROFESSORS: Abel A. Bartley, Michael J. Carley, J. Clayton Fant, Lesley Gordon, Michael F. Graham, Stephen L. Harp, Philip A. Howard, Elizabeth Mancke, A. Martin Wainwright.ASSISTANT PROFESSORS: Rula Abisaab, Tracey J. Boisseau, John Jensen, Michael J. Levin, Gregory Wilson.

Mathematics and Computer Sciences

ACTING CHAIR: Professor Wolfgang Pelz.

PROFESSORS: Chien-Chung Chan, Subramaniya I. Hariharan, Kevin L. Kreider, Lala B. Krishna, Dale H. Mugler, Timothy S. Norfolk, Judith A. Palagallo, Thomas E. Price Jr., Antonio R. Quesada, Gerald W. Young, Jianping Zhu.

ASSOCIATE PROFESSORS: Curtis B. Clemons, Ali Hajjafar, John A. Herninger, Kathy J. Liszka, Neal C. Raber, Linda M. Saliga, Donald P. Story, Ethel R. Wheland, Yingcai T. Xiao.

ASSISTANT PROFESSORS: Jeffrey D. Adler, Xuan-Hien Thi Dang, Zhong-Hui Duan, Dmitry Golovaty, Laura K. Gross, Timothy S. Margush, Jeffery M. Riedl.

Modern Languages

CHAIR: Professor J. Christopher Eustis

ASSOCIATE PROFESSORS: Maria Adamowicz-Hariasz, Parizad T. Dejbord-Sawan, Robert Fields Jeanter, Maria Zanetta.

ASSISTANT PROFESSORS: Jeanne-Helen Roy, Paul D.Toth, Matthew Wyszynski.

Philosophy

CHAIR: Professor Howard M. DuCharme Jr. PROFESSORS: James H. Buchanan. ASSOCIATE PROFESSORS: Priscilla Sakezles, Eric Sotnak. ASSISTANT PROFESSORS: Kevin Guilfoy.

Physics

CHAIR: Professor Robert R. Mallik

DISTINGUISHED PROFESSORS: Ernst D. von Meerwall.

PROFESSORS: Roger B. Creel, Purushottam Das Gujrati.

ASSISTANT PROFESSORS: Yu-Kuang Ben Hu, Jutta Luettmer-Strathmann, Sergei Lyuksyutov, Rex D. Ramsier, Gregory M. Townsend.

Political Science

CHAIR: Professor David J. Louscher.

PROFESSORS: John C. Green, Nancy E. Marion, Jesse F. Marquette, James C. Sperling. ASSOCIATE PROFESSORS: Christopher P. Banks, Stephen C. Brooks, Marian A. Miller. ASSISTANT PROFESSORS: Fran Buntman, David Cohen, Rick D. Farmer, William T. Lyons.

Psychology

CHAIR: Professor Linda M. Subich.

PROFESSORS: Philip A. Allen, Dennis Doverspike, Terry L. Hickey, Robert G. Lord, Martin D. Murphy, Harvey L. Stems, Janice Yoder.

ASSOCIATE PROFESSORS: David Baker, Ann R. Fischer, Rosalie Hall, Paul E. Levy, Raymond Sanders, Andrea F. Snell, Daniel J. Svyantek, David M. Tokar, Charles A. Waehler. ASSISTANT PROFESSORS: Susan I. Hardin, Karen F. Kopera-Frye, Philip J. Moberg, James L. Werth Jr.

ADORD FAITH FRUITESSUNS, SUSAITI, HAIDIII, KAIHI F. KUpela-Hye, Fillip J. IVKUberg, James L. Vveruit J

Public Administration and Urban Studies

CHAIR: Prefessor Raymond W. Cox.

PROFESSORS: Ashok Dutt, Nancy K. Grant, Ralph P. Hummel, Richard E. Klosterman, Peter J. Leahy.

ASSOCIATE PROFESSORS: Francois K. Doamekpor, Douglas V. Shaw.

ASSISTANT PROFESSORS: Sonia Alemagno, Julia Beckett, Ward F. Thomas.

Sociology

CHAIR: Professor John Zipp.

PROFESSORS: R. Frank Falk, Gay C. Kitson, Samuel Noh, Brian Pendleton, Richard C. Stephens, Mark B. Tausig.

ASSOCIATE PROFESSORS: Cheryl Elman, Rebecca J. Erickson, Kathryn M. Feltey, Rudy Fenwick, Celia C. Lo.

ASSISTANT PROFESSORS: Alice Fothergill, Matthew T. Lee, Jeffrey Lucas, C. Andre Mizell, Baffour K. Takyi.

Statistics

CHAR: Professor Chand Midha PROFESSORS: Dale S. Borowiak ASSOCIATE PROFESSORS: Richard L. Einsporn, David B. Stark, Richard P. Steiner. ASSISTANT PROFESSORS: Josefina P. de los Reyes, Kevin S. Robinson.

College of Engineering

Biomedical Engineering

CHAIR: Associate Professor Mary C. Verstraete. PROFESSORS: Dale H. Mugler, Narender P. Reddy, Stanley E. Rittgers. ASSOCIATE PROFESSORS: Daniel B. Sheffer, Bruce C. Taylor.

Chemical Engineering

CHAIR: Professor Steven S. Chuang PROFESSORS: George G. Chase, Harry M. Cheung, J. Richard Elliot Jr., Lu-Kwang Ju. ASSOCIATE PROFESSORS: Helen K. Qammar. ASSISTANT PROFESSORS: Edward A. Evans, Stephanie Lopina, Bi-Min Zhang Newby, Ping Wang.

Civil Engineering

PROFESSORS: Wieslaw K. Binienda, Robert Liang, Atef F. Saleeb. ASSOCIATE PROFESSORS: William B. Arbuckle, Teresa J. Cutright, Craig C. Menzemer, Christopher M. Miller

ASSISTANT PROFESSORS: Chun-Yi Kuo, Pizhong Qiao, Allen L. Sehn, Ping Yi.

Electrical Engineering

PROFESSORS: Jose Alexis De Abreu-Garcia, Malik E. Elbuluk, Subramaniya I. Hariharan, Tom Hartley, Nathan Ida.

ASSOCIATE PROFESSORS: John Durkin, George C. Giakos, James Grover, Iqbal Husain, Bruce Taylor, Igor A. Tsukerman, Robert J. Veillette, John T. Welch Jr.

ASSISTANT PROFESSORS: Joan E. Carletta, Okechukwu C. Ugweje.

Mechanical Engineering

CHAIR: Professor Celal Batur

PROFESSORS: Minel J. Braun, Fred Kat-Chung Choy Jr., Lala B. Krishna, Paul C. Lam, Tirumalai S. Srivatsan.

ASSOCIATE PROFESSORS: Jerry E. Drummond, Richard J. Gross, Michelle S. Hoo Fatt, S. Graham Kelly III, Yueh-Jaw A. Lin, Donald D. Quinn.

ASSISTANT PROFESSORS: Xiaosheng Gao, Kevin Hane, Scott D. Sawyer, Gangbing Song, Guo-Xiang Wang.

College of Education

Counseling and Special Education

CHAIR: Professor John J. Zarski. PROFESSORS: Bridgie A. Ford,

ASSOCIATE PROFESSORS: James Austin, Patricia E. Parr, Sandra L. Perosa, James R. Rogers Jr.

ASSISTANT PROFESSORS: Shannon Dermer, Timothy H. Lillie, Linda M. Perosa, Loreto Prieto, John E. Queener, Cynthia A. Reynolds, Karen Scheel, Robert Schwartz, Shannon Smith, Evonn N. Welton, Shernavaz Vakil.

Curricular and Instructional Studies

DEPARTMENT CHAIR: Professor Susan J. Olson.

PROFESSORS: Harold M. Foster, William E. Klingele, Walter H. Yoder.

ASSOCIATE PROFESSORS: Susan G. Colville-Hall, Robert E. Eley, Carole H. Newman, Evangeline Newton, Randall Nichols, Lynne M. Pachnowski, Lynn A. Smolen.

ASSISTANT PROFESSORS: Francis S. Broadway, Sharon Gill, Qetler Jensrud, Cindy Kovalik, Lisa Lenhart, Ruth Oswałd, Katharine Owens, Denise Stuart, Terri Jo Swim.

Educational Foundations and Leadership

INTERIM DEPARTMENT CHAIR: Associate Professor Sharon D. Kruse

DISTINGUISHED PROFESSOR: Isadore Newman

PROFESSORS: M. Kay Alderman, John J. Hirschbuhl.

- ASSOCIATE PROFESSORS: Ann Hassenpflug, Catherine C. Knight, Susan N. Kushner-Benson, Huey-Li Li, Suzanne C. MacDonald, John A. Weaver, Dianne A. Brown Wright.
- ASSISTANT PROFESSORS: Fred M. Carr, Susan G. Clark, Duane Covrig, Lynne Ann Hammann, John Savery, Sajit Zachariah.

Sport Science and Wellness Education

DEPARTMENT CHAIR: Associate Professor Philip J. Buckenmeyer

PROFESSORS: Mary J. MacCracken.

ASSOCIATE PROFESSORS: Sean Cai, Victor E. Pinheiro, Gayle J. Workman.

ASSISTANT PROFESSORS: Ann L. Gibson, Bonna Sullivan.

INSTRUCTORS: Paul J. Wright.

College of Business Administration

Accountancy

DEPARTMENT CHAIR: Associate Professor Emeka O. Ofobike

PROFESSORS: Thomas G. Calderon, Gary B. Frank, Il-Woon Kim.

- ASSOCIATE PROFESSORS: John J. Cheh, Edward J. Conrad, James R. Emore, Sharon L. Kimmell, Alvin H. Lieberman, Bernadette M. Ruf.
- ASSISTANT PROFESSORS: Jerome E. Apple, Michael D. Chatham, Henry K. Efebera, Pamela Kay Keltyka.

INSTRUCTORS: Laura Rickett, Ronald E. Girard.

Finance

CHAIR: Professor David A. Redle.

PROFESSORS: Aigbe Akhigbe, David R. Durst, Douglas R. Kahl, Ronald Kudla, Karen E. Lahey, Harridutt Ramcharran.

ASSISTANT PROFESSORS: Doeseong Kim, John E. Matejkovic, Melinda L. Newman. INSTRUCTOR: George Hruby

Management

PROFESSORS: Kenneth E. Aupperle, James K. Divoky, Kenneth A. Dunning, Stephen F. Hallam, John E. Hebert, Paul A. Kuzdrall, Roger C. Mayer, Jayprakash G. Patankar.

ASSOCIATE PROFESSORS: Robert A. Figler, Todd Finkle, Susan C. Hanlon, Avis L. Johnson, Ravindra Krovi, Liping Liu, William McHenry, David G. Meyer, Barbara A. Osyk, Mary Anne Rothermel, Franklin B. Simmons III, Bindiganavale S. Vijayaraman.

ASSISTANT PROFESSORS: Steven R. Ash, Steve Dunphy, Paramjit S. Kahai, R. Ray Gehani, Jayprakash G. Patankar

Marketing

CHAIR: Professor Dale Lewison

PROFESSORS: Lance E. Brouthers, Michael F. D'Amico, Jon M. Hawes, George E. Prough, James T. Strong, Peter B. Turk.

ASSOCIATE PROFESSORS: Jeffrey C. Dilts, Douglas R. Hausknecht, Bruce D. Keillor, Raymond C. Rody.

ASSISTANT PROFESSORS: Victor Davila, Deborah Owens, Scott Widmier, Timothy Wilkinson. INSTRUCTOR: Cathy Martin

College of Fine and Applied Arts

Art

DIRECTOR: Professor Christina DePaul.

- PROFESSORS: Andrew Borowiec, George L. DiSabato, Richard W. Haire, Penny Rakoff, Neil Sapienza, Mark E. Soppeland, Donna S. Webb.
- ASSOCIATE PROFESSORS: Christopher Hoot, Robert J. Huff, James V. Lenavitt, Janice S. Troutman, Vlada Vukadinovic, Hui-Chu Ying.
- ASSISTANT PROFESSORS: Charles C. Beneke, Kate Budd, Kevin Concannon, Laura D. Gelfand, Edward J. Laughner, Robert Meyers, John W. Morrison II, Sherry A. Simms, Laura A. Vinnedge.

Communication

DIRECTOR: Associate Professor Dudley B. Turner.

- PROFESSORS: Kathleen L. Endres, William D. Harpine, David L. Jarnison, Therese L. Lueck, Andrew S. Rancer, Nancy M. Somerick.
- ASSOCIATE PROFESSORS: Carolyn M. Anderson, Richard E. Caplan, Gabriel F. Giralt, Robert D. Ritchey, Sylvia E. White.
- ASSISTANT PROFESSORS: Nancy Brown, Kathleen Clark, Patricia Hill, Young Y. Lin, Julia A. Spiker, Mary Triece, Heather Walter.

Dance, Theatre and Arts Administration

DIRECTOR: Associate Professor Lucinda Lavelli

PROFESSORS: Mark S. Aubum, Paul A. Daum, Adel A. Migid-Hamzza, Marc C. Ozanich, James Slowiak, Susan D. Speers.

ASSOCIATE PROFESSOR: Durand L. Pope, Frederick T. Smith.

ASSISTANT PROFESSORS: Andrew Carroll, Kathleen M. Davis.

INSTRUCTOR: Cydney Spohn.

Music

DIRECTOR: Professor William Guegold.

- PROFESSORS: Alfred Anderson, Stephen Aron, Alan Bodman, Samuel Gordon, Michael P. Haber, William G. Hoyt Jr., Scott A. Johnston, Tucker R. Jolly, Robert Jorgensen, Barbera J. MacGregor, Georgia K. Peeples, George S. Pope, Nikola Resanovic, James Ryon, Mary G. Schiller, Larry D. Snider, Ralph B. Turek, Sherman D. Vander Ark.
- ASSOCIATE PROFESSORS: Tana F. Alexander, V. Douglas Hicks, Daniel W. McCarthy, Richard L. Shanklin, Philip G. Thomson, Brooks A. Toliver, Edward A. Zadrozny Jr.
- ASSISTANT PROFESSOR: Kristna M. Belisle, Ronn Cummings, Galen S. Karriker, Laurie J. Lafferty, Ann L. Usher.

School of Family and Consumer Sciences

PROFESSORS: Virginia L. Gunn, David D. Witt.

ASSOCIATE PROFESSORS: Deborah D. Marino, Susan Rasor-Greenhalgh, Isabelle A. Stombaugh. ASSISTANT PROFESSORS: Robert Brown, Sandra Buckland, Janice M. Chebra, Sandra L. Hudak, Jeanne Thibo Karns, Valentina M. Remig, Pamela Ann Schulze, John Vollmer, Carol Werhan, Susan Writ.

INSTRUCTORS: Eston Brown, Kristi L. Green.

Social Work

DIRECTOR: Professor Virginia L. Fitch.

PROFESSORS: Geraldine Faria.

ASSOCIATE PROFESSOR: Nikki W. Wingerson.

ASSISTANT PROFESSORS: Linda F. Crowell, Peter K. Li, Timothy M. McCarragher, Gwendolyn D. Perry, Priscilla R. Smith.

Speech-Language Pathology and Audiology

DIRECTOR: Professor James M. Lynn

PROFESSORS: Roberta DePompei, Carol A. Flexer, Pamela G. Garn-Nunn, Karyn B. Katz, Sharon A. Lesner, Denise F. Wray.

ASSOCIATE PROFESSORS: William T. Brandy, Yvonne M. Gillette.

ASSISTANT PROFESSOR: Susan T. Frank, Mona L. Klingler, Terry L. Hallett.

College of Nursing

DEAN: Professor Cynthia Capers.

PROFESSORS: Elizabeth S. Kinion, Mary Helen Kreider, Linda G. Linc, Victoria M. Schirm, N. Margaret Wineman, Christine A. Wynd.

- ASSOCIATE PROFESSORS: Therese M. Dowd, Karen S. Gehrling, Kristine M. Gill, Katharine Y. Kolcaba, Elaine F. Nichols, Kathleen M. Ross-Alaolmolki, Karen A. Schwarz, Lee-Jen Suen.
- ASSISTANT PROFESSORS: Cheryl L. Buchanan, Helen C. Dannemiller, Elaine M. Fisher, Irene Glanville, Marlene S. Huff, Mary Agnes Kendra, Donna Felber Neff, Paula R. Renker, Tracy A. Riley, Cheryl B. Sadler, Stephanie J. Woods.
- INSTRUCTORS: Marie A. Bright Cobb, Diane K. Brown, Susan E. Busch, Ruth E. Carlson, Louise R. Cook, Marguerite A. DiMarco, Joseph A. Foley, Alison K. Harrigan, Lori I. Kidd, Annette R. Mitzel, Kelly M. Pond, Carolyn R. Schubert, Linda Shanks, Sandra L. Siedlecki, Catherine E. Stiller, Kathleen Tusaie-Mumford.

College of Polymer Science and Polymer Engineering

Polymer Science

CHAIR: Professor William Brittain

DISTINGUISHED PROFESSORS: Frank W. Harris, Joseph P. Kennedy, Roderic P. Quirk.

PROFESSORS: Stephen Z. D. Cheng, Scott Collins, Purushottm Das Gujrati, Mark D. Foster, Gary R. Hamed, H. James Harwood, Frank N. Kelley, Wayne L. Mattice, George R. Newkome, Darrel H. Reneker, Shi-Qing Wang.

ASSOCIATE PROFESSORS: Coleen Pugh.

ASSISTANT PROFESSORS: Gustavo Adolfo Carri, Ali Dhinojwala, Alexei P. Sokolov. INSTRUCTOR: Marcia E. Weidknecht.

Polymer Engineering

DISTINGUISHED PROFESSORS: Avraam I. Isayev

PROFESSORS: Mukerrem Cakmak, Lloyd A. Goettler, Chang D. Han, Thein Kyu, Arkadii I. Leonov, Erol Sancaktar, James L. White.

ASSOCIATE PROFESSOR: Kyonsuku M. Cakmak.

ASSISTANT PROFESSOR: Sadhan C. Jana.

School of Law

DEAN: Professor Richard L. Aynes.

- PROFESSORS: Lloyd C. Anderson, J. Dean Carro, Jay Dratler Jr., Wilson R. Huhn, William S. Jordan, III, Margery B. Koosed, Richard J. Kovach, Tawia Modibo Ocran, Samuel Oddi, Elizabeth A. Reilly, Paul Richert, Jeffrey M. Samuels.
- ASSOCIATE PROFESSORS: Richard C. Cohen, Dana K. Cole, Malina Coleman, Carolyn L. Dessin, Willa E. Gibson, Brant T. Lee, Jane C. Moriarty, Charles A. Newman, Carol A. Olson, William D. Rich, John P. Sahl.

ASSISTANT PROFESSORS: Bernadette B. Genetin, E. Stewart Moritz, Tracy A. Thomas.

Wayne College

DEAN: Professor John P. Kristofco.

PROFESSORS: Janet L. Minc, Jane F. Roberts, Emily A. Rock, Forrest Smith, Timothy R. Vierheller.

ASSOCIATE PROFESSORS: Thomas E. Andes, Gary A. Bays, Karin J. Billions, Daniel C. Deckler, Louis M. Janelle Jr., Debra L. Johanyak, Patsy A. Malavite, Richard M. Maringer, Jerry C. Obiekwe, Paulette M. Popovich, Monica Harrison Smith, Tyrone M. Turning, Paul B. Weinstein, Douglas B. Woods.

ASSISTANT PROFESSORS: Lori A. Brinker, Jennifer L. Holz, Jack A. Loesch, Susanne M. Meehan, Colleen M. Teague, Carol Michele Turmer, Helen F. Walkerty, Nicholas C. Zingale.

INSTRUCTORS: Betty J. Rogge, Joseph M. Wilson.

University Libraries

DEAN: Professor Delmus E. Williams.

PROFESSORS: Roger W. Durbin, George V. Hodowanec, Nancy L. Stokes.

ASSOCIATE PROFESSORS: Stephen H. Aby, Diana A. Chlebek, Julie A. Gammon, Nancy L. Hayes, Mary S. Konkel, Joseph A. LaRose, Peter Linberger, John V. Miller Jr., Phyllis G. O'Connor, Mae N. Schreiber.

ASSISTANT PROFESSORS: Ann D. Bolek, Aimee L. DeChambeau, Susan DiRenzo, Jeffrey A. Franks, Joan C. Long, Cherie A. Madarash-Hill, Nancy Pitre, Karen A. Plummer, David Prochazka, Bennie P. Robinson, Joseph E. Straw.

Reserve Officers' Training Corps

Army

BARBARA FEYESH, Military Personnel Tech. (June 1986); B.S. Kent State University, 1981.

- LAURIE A. MALAGA, Administrative Secretary (December 2000); B.A. Carnegie Mellon University, 1993.
- MARK A. MOREK, Recruiting Operations Officer (February 2001); M.S., Troy State University, 2000; Combined Arms Service and Staff School, 1998; B.S., U.S. Military Academy, 1993; Captain, Aviation, U.S. Army.
- MICHAEL J. NORMAN, Ohio National Guard Recruiting Liaison (January 2000); Staff Sergeant, U.S. Army.

JEFFERY ROUSEY, Instructor of Military Science (August 1999); Sergeant First Class, U.S. Army.

ERIC A. SERGUEK, Ohio Army Reserve Field Recruiter (February 2000); Staff Sergeant, U.S. Army. JAMES E. SMITH, Assistant Professor of Military Science (June 2000); B.S. Ohio University, 1984;

- Major, Aviation, U.S. Army Reserve.SAMUEL R. WHITE JR., Professor of Military Science (July 2000); M.M.S., Command and General Staff College, 1996; Combined Arms Service and Staff School, 1991; B.A., U.S. Military Academy,
- 1984; LTC, Field Artillery, U.S. Army. DANIEL J. WHITNEY, Assistant Professor of Military Science (August 2000); Master Sergeant, U.S.
- Army.

Air Force

- BRIAN ATKINSON, Assistant Regional Director of Admissions (2000); B.S. The University of Pittsburgh; Second Lieutenant, USAF.
- RENE J. BACA, Assistant Professor of Aerospace Studies and Commandant of Cadets (2000). B.S. The University of Akron (1995); Captain, USAF.
- SHERLEY H. BROWN, Professor of Aerospace Studies (1999) B.S., Western Illinois University (1970); B.S., University of Maryland (1982); M.P.A., Southwest Texas State University (1987); Lieutenant Colonel, USAF.
- LYNN M. DIXON, Information Management (1998). Air Force NCO Academy; Master Sergeant, USAF.

BRAD M. MILLER, Assistant Professor of Aerospace Studies and Unit Recruiting Officer (2000). B.S. The Ohio State University (1992), Captain, USAF.

DONALD E. POWELL, NCOIC Personnel (1999). Airman Leadership School; Staff Sergeant, USAF.

The Maurice Morton Institute of Polymer Science

- FRANK W. HARRIS, Director of The Maurice Morton Institute of Polymer Science; Distinguished Professor of Polymer Science; Distinguished Professor of Biomedical Engineering (1983) B.S., University of Missouri; M.S., Ph.D., University of Iowa, 1968.
- WILLIAM J. BRITTAIN, Department Chair of Polymer Science; Professor of Polymer Science (August 1990) B.S., University of Northern Colorado; Ph.D., California Institute of Technology, 1982.
- GUSTAVO CARRI, Assistant Professor of Polymer Science (August 2000) License in Physics, Universidad Nacional de La Plata, M.S. Macromolecular Science Case Western Reserve University, M.S., Ph.D., University of Massachusetts-Amherst, 2000.
- STEPHEN Z. D. CHENG, Professor of Polymer Science; Trustees Professor, Polymer Science (July 1997) B.S., East China Normal University; M.S., East China Institute of Science and Technology; Ph.D. Rensselaer Polytechnic Institute, 1985.
- SCOTT COLLINS, Professor of Polymer Science; Professor of Chemistry (June 2000) B.Sc., Ph.D., Calgary (Canada), 1983.
- ALI DHINOJWALA, Assistant Professor of Polymer Science (October 1997) Ph.D., Northwestern University, 1994.
- MARK D. FOSTER, Professor of Polymer Science (November 1990) B.S., Washington University; Ph.D., University of Minnesota at Minneapolis, 1987.
- PURUSHOTTAM DAS GUJRATI, Professor of Physics; Professor of Polymer Science (1983) B.Sc., Banaras Hindu University, India; M.Sc., Indian Institute of Technology, India; M.A., M.Phil., Ph.D., Columbia University, 1978.
- GARY R. HAMED, Professor of Polymer Science (August 1980) B.S.C.E., M.S.C.E., Cornell University; Ph.D., The University of Akron, 1978.
- H. JAMES HARWOOD, Professor of Polymer Science; Professor of Chemistry (October 1959) B.S., The University of Akron, Ph.D., Yale University, 1956.
- FRANK N. KELLEY, Dean of the College of Polymer Science and Polymer Engineering; Professor of Polymer Science (September 1978) B.S., M.S., Ph.D., The University of Akron, 1961.
- JOSEPH P. KENNEDY, Distinguished Professor of Polymer Science; Distinguished Professor of Chemistry (April 1970) B.Sc., University of Budapest; M.B.A., Rutgers University; Ph.D., University of Vienna, 1954.
- WAYNE L. MATTICE, Alex Schulman Professor of Polymer Science (July 1986) B.A., Grinnell College; Ph.D., Duke University, 1968.
- GEORGE R. NEWKOME, Vice President of Research and Dean of the Graduate School; Professor of Polymer Science, Professor of Chemistry, James and Vanita Oelschlager Professor of Science and Technology (January 2001) B.S., Ph.D. Kent State University 1966.
- COLEEN PUGH, Associate Professor of Polymer Science (August 1998) B.A., B.S., University of California; M.S., Ph.D., Case Western Reserve University, 1990.
- RODERIC P. QUIRK, Distinguished Professor of Polymer Science; Kumho Professor of Polymer Science (October 1983) B.S., Rensselaer Polytechnic Institute; M.S., Ph.D., University of Illinois, 1967.
- DARRELL H. RENEKER, Professor of Polymer Science (1989) B.Sc., Iowa State University; M.Sc., Ph.D., University of Chicago, 1959.
- DANIEL J. SMITH, Professor of Chemistry; Faculty Research Associate, IPS (1977) B.S., Wisconsin State University; Ph.D., University of California at Berkeley, 1974.
- ALEXEI SOKOLOV, Assistant Professor of Polymer Science (September 1998) M.S. Novosibirsk State University, Ph.D., Doctor of Habilitation, Russian Academy of Sciences, 1986.
- CLAIRE A. TESSIER, Associate Professor of Chemistry; Assistant Department Chair Chemistry; Faculty Research Associate IPS (August 1990) B.S., University of Vermont; Ph.D., State University of New York at Buffalo, 1982.
- ERNST D. VON MEERWALL, Associate Dean of the College of Polymer Science and Polymer Engineering; Distinguished Professor of Physics; Distinguished Professor of Chemistry; Distinguished Professor of Polymer Science (1971) B.S., M.S., Northern Illinois University; Ph.D., Northwestern University, 1970.

SHI-CING WANG, Professor of Polymer Science (August 2000) B.S. Wuhan University, China; Ph.D., University of Chicago 1987.

WILEY YOUNGS, Professor of Chemistry, Faculty Research Associate IPS (1990) B.A., State University of New York at Albany; Ph.D., State University of New York at Buffalo, 1980.

Institute of Polymer Engineering

- JAMES L. WHITE, Professor of Polymer Engineering; Harold A. Morton Professor (January 1998); Director of the Institute of Polymer Engineering (July 1983) B.S.Ch.E., Polytechnic Institute of Brooklyn; M.S.Ch.E., Ph.D., University of Delaware, 1965.
- MUKERREM CAKMAK, Professor of Polymer Engineering (August 1983) B.S., Technical University of Istanbul; M.S., Ph.D., University of Tennessee, 1984.
- LLOYD A. GOETTLER, Professor of Polymer Engineering; Chair, Department of Polymer Engineering (July 2000) B.Ch.E., Cornell University; Ph.D., University of Delaware, 1967.
- CHANG DAE HAN, Benjamin Franklin Goodrich Endowed Professor of Polymer Engineering (January 1993) B.S., Seoul National University; M.S., Sc.D., Massachusetts Institute of Technology; M.S., Newark College of Engineering; M.S., New York University, 1971
- AVRAAM I. ISAYEV, Distinguished Professor of Polymer Engineering (July 1983) M.Sc., Azerbaijan Institute of Oil and Chemistry; M.Sc., Moscow Institute of Electronic Machine Building; Ph.,D., USSR Academy of Sciences, 1970.
- SADHAN C. JANA, Assistant Professor of Polymer Engineering (July 1998) B.S., University of Calcutta; M.S., IIT Kanpur; Ph.D., Northwestern University, 1993.
- THEIN KYU, Professor of Polymer Engineering (August 1983) B.Eng., Kyoto Institute of Technology; M.Eng., D.Eng., Kyoto University, 1980.
- ARKADII I. LEONOV, Professor of Polymer Engineering (August 1988) B.S., Moscow Institute of Chemical Engineering; M.S., Moscow State University; Ph.D., USSR Academy of Sciences; Ph.D., Karpov Physico-Chemical Research Institute, Moscow USSR, 1969.
- KYONSUKU MIN-CAKMAK, Associate Professor of Polymer Engineering (August 1983) B.Eng., M.Eng., Kyoto Institute of Technology; Ph.D., University of Tennessee, 1984.

EROL SANCAKTAR, Professor of Polymer Engineering (January 1996) B.S., Robert College, Istanbul (now Bosphorus University); M.S., Ph.D., Virginia Polytechnic Institute and State University, 1979.

Institute of Biomedical Engineering Research

STANLEY E. RITTGERS, Professor of Biomedical Engineering (1987) B.S., State University of New York at Buffalo; M.S., Ph.D., The Ohio State University, 1978.

GEORGE C. GIAKOS, Associate Professor of Biomedical Engineering (1994) B.A., University of Turin; M.S., University of Edinburgh; M.S., Ohio University; Ph.D., Marquette University, 1991.

GLEN O. NJUS, Research Associate Professor in Institute for Biomedical Engineering Research (November 1986) B.S., M.S., Ph.D., University of Iowa, 1985.

NARENDER P. REDDY, Professor of Biomedical Engineering (March 1981) B.E., Osmania University; M.S., University of Mississippi; Ph.D., Texas A&M University, 1974.

DANIEL B. SHEFFER, Associate Professor of Biology; Associate Professor of Biomedical Engineering; Director, Biostereometrics Laboratory (July 1980) B.S., M.Ed., Northwestern State College; Ph.D., Texas A&M University, 1976.

BRUCE C. TAYLOR, Associate Professor of Biomedical Engineering; Associate Professor of Electrical Engineering (1988) B.A., Hiram College; M.A., Ph.D., Kent State University, 1971.

MARY C. VERSTRAETE, Associate Professor of Biomedical Engineering (1988) Department Chair of Biomedical Engineering; B.S., M.S., Ph.D., Michigan State University, 1988.

Presidents

Deceased.

Buchtel College

S. H. McCOLLESTER*, 1872-1878, D.D., Litt. D.
 E. L. REXFORD*, 1878-1880, D.D.
 ORELLO CONE*, 1880-1896, D.D.
 CHARLES M. KNIGHT*, 1896-1897, D.Sc. (ad interim)
 IRA A. PRIEST*, 1897-1901, D.D.
 A. B. CHURCH*, 1901-1912, D.D., LLD.
 PARKE R. KOLBE*, 1913, Ph.D., LLD.

The University of Akron

PARKE R. KOLBE*, 1913-1925, Ph.D., LL.D. GEORGE F. ZOOK*, 1925-1933, Ph.D., LL.D. HEZZLETON E. SIMIMONS*, 1933-1951, M.S., D.Sc., LL.D. NORMAN P. AUBURN, 1951-1971, B.A., D.Sc., Litt.D., L.H.D., D.C.L. D. J. GUZZETTA, 1971-1984, Ed.D., LL.D., D.S.C., Litt.D., H.D., WILLIAM V. MUSE, 1984-1992, B.S., M.B.A., Ph.D. MARION A. RUEBEL, 1992, B.A., M.A., Ph.D., (acting) PEGGY GORDON ELLIOTT, 1992-1996, B.A., M.S., Ed.D. MARION A. RUEBEL, 1996-1998, B.A., M.A., Ph.D. LUIS M. PROENZA, 1999-, B.A., M.A., Ph.D.

Deans of the Colleges of The University of Akron

*Deceased.

Buchtel College of Arts and Sciences

ALBERT I. SPANTON*, 1913-1938, M.A., Litt.D. CHARLES BULGER*, 1938-1948, Ph.D., Litt.D. ERNEST H. CHERRINGTON JR., 1948-1960, Ph.D. THOMAS SUMNER*, 1960-1962, Ph.D. GEORGE W. KNEPPER, 1962-1967, Ph.D. DON A. KEISTER, 1967-1969, Ph.D. JOHN BACHMANN*, 1969-1970, Ph.D. (acting) ROBERT A. OETJEN, 1970-1977, Ph.D. CLAIBOURNE E. GRIFFIN*, 1977-1993, Ph.D. RANDY MOORE, 1993-95, Ph.D. ROGER B. CREEL, 1995-97, Ph.D. (Interim) ROGER B. CREEL, 1997-, Ph.D.

College of Engineering

FREDERIC E. AYER*, 1914-1946, C.E., D.Eng. R. D. LANDON, 1946-1963, C.E., M.S. W. M. PETRY*, 1963-1964, M.S.M.E. (acting) MICHAEL J. RZASA*, 1964-1970, Ph.D. COLEMAN J. MAJOR, 1970-1979, Ph.D. JOSEPH EDMINISTER, 1980-1981, J.D. (acting) LOUIS A. HILL JR., 1981-1988, Ph.D. GLENN A. ATWOOD, 1988-1989, Ph.D. (acting) NICHOLAS D. SYLVESTER, 1989-1994, Ph.D. CHIOU S. CHEN, 1994-1995, Ph.D. (interim) IRVING F. MILLER, 1993, Ph.D. (interim)

College of Education

W. J. BANKES*, 1921-1931, M.A. ALBERT I. SPANTON*, 1931-1933, M.A., Litt.D. (acting) HOWARD R. EVANS*, 1933-1942, Ph.D. HJALMER W. DISTAD*, 1942-1944, Ph.D. (acting) HOWARD R. EVANS*, 1944-1958, Ph.D. D. J. GUZZETTA, 1958-1959, Ed.D. LL.D., D.S.Sc., L.H.D. (acting) CHESTER T. McNERNEY, 1959-1966, Ph.D., LL.D. H. KENNETH BARKER, 1966-1965, Ph.D. JOHN S. WATT, 1985-1986, Ph.D. (acting) CONSTANCE COOPER, 1986-1988, Ed.D. JOHN S. WATT, 1985-1986, Ph.D. (acting) WILLIAM E. KLINGELE, 1989-1996, Ed.D. RITA S. SASLAW, 1996-1998, Ph.D. (interim) LARRY A. BRADLEY, 1998-2000, Ph.D. (interim) ELZABETH J. STROBLE, 2000, Ph.D.

College of Business Administration

WARREN W. LEKGH[•], 1953-1962, Ph.D. RICHARD C. REIDENBACH, 1962-1967, Ph.D. ARTHUR K. BRINTALL, 1967-1968, Ph.D. (acting) WILBUR EARLE BENSON[•], 1968-1970, Ph.D. JAMES W. DUNLAP, 1970-1989, Ph.D. RUSSELL J. PETERSEN, 1989-1994, Ph.D. JAMES WIMAN, 1994-1995, LL.M. (interim) STEPHEN F. HALLAM, 1995- Ph.D.

School of Law

STANLEY A. SAMAD*, 1959-1979, J.S.D. ALBERT S. RAKAS*, 1979-1981, J.D. (interim) DONALD M. JENKINS, 1981-1987, LL.M. ISAAC C. HUNT JR., 1987-1995, LL.B. RICHARD AYNES, 1995-, J.D.

Graduate School

CHARLES BULGER*, 1933-1951, Ph.D., Litt.D. (Dean of Graduate Work) ERNEST H. CHERRINGTON JR., 1965-1960, Ph.D. (Director of Graduate Studies) ERNEST H. CHERRINGTON JR., 1960-1967, Ph.D. (Dean of the Graduate Division) ARTHUR K. BRINTALL, 1967-1968, Ph.D. (Dean of Graduate Studies and Research) EDWIN L. LIVELY, 1968-1974, Ph.D. (Dean of Graduate Studies and Research) JOSEPH M. WALTON, 1977-1978, Ph.D. (Dean of Graduate Studies and Research) JOSEPH M. WALTON, 1977-1978, Ph.D. (Dean of Graduate Studies and Research) JOSEPH M. WALTON, 1978-1986, Ph.D. (Dean of Graduate Studies and Research) JOSEPH M. WALTON, 1986-1989, Ph.D. (Acting Dean of Graduate Studies and Research) PATRICIA L CARRELL, 1989-1993, Ph.D. (Dean of the Graduate School) CHARLES M. DYE, 1993-2000, Ph.D. (Dean of the Graduate School) GEORGE R. NEWKOME, 2000, Ph.D. (Nice President for Research & Dean of the Graduate School)

University College (formerly General College)

D. J. GUZZETTA, 1959-1962, Ed.D., LL.D., D.S.Sc., L.H.D. THOMAS SUMNER*, 1962-1977, Ph.D. PAUL S. WINGARD, 1977-1978, Ph.D. (acting) MARION A. RUEBEL, 1978-1989, Ph.D. NANCY K. GRANT, 1989-1990, Ph.D. (acting) THOMAS J. VUKOVICH, 1990-1993, Ph.D. (acting) KARLA T. MUGLER, 1993-, Ph.D.

Continuing Education and Evening Division (Formerly Evening College)

L. L. HOLMES, 1932-1934, M.A. (director) LESLIE P. HARDY*, 1934-1953, M.S.Ed., L.H.D. (director) E. D. DURYEA, 1953-1956, Ed.D. (dean) D. J. GUZZETTA, 1956-1959, Ed.D., LL.D., D.S.Sc., L.H.D. (dean) WILLIAM A. ROGERS, 1959-1967, Ed.D. (dean) CHARLES V. BLAIR, 1967-1970, M.A. (dean) JOHN G. HEDRICK, 1970-1974, M.A. (dean) CAESAR A. CARRINO, 1974-1986, Ph.D. (dean) WILLIAM H. BEISEL, 1998, Ph.D.

Community and Technical College

W. M. PETRY*, 1964-1974, M.S.M.E. ROBERT C. WEYRICK, 1974-1985, M.S. FREDERICK J. STURM, 1985-1987, Ed.D. (acting) JAMES P. LONG, 1987-1989, Ph.D. FREDERICK J. STURM, 1990-1995, Ed.D. DEBORAH S. WEBER, 1995-96, M.A. (interim) DAVID A. SAM, 1996-2000, Ph.D. WILLIAM H. BEISEL, 2000, Ph.D. (interim)

College of Fine and Applied Arts

RAY H. SANDEFUR*, 1967-1978, Ph.D. GERARD L. KNIETER, 1978-1986, Ph.D. KELVIE C. COMER, 1986-1987, Ed.D. (acting) WALLACE T. WILLIAMS*, 1987-1991, Ph.D. DONALD E, HALL, 1991-1992, Ph.D. (acting) LINDA L. MOORE, 1992-1998, Ph.D. MARK S. AUBURN, 1998-2000, Ph.D. (interim) MARK S. AUBURN, 2000-, Ph.D. College of Nursing

ESTELLE B. NAES, 1967-1975, Ph.D. LILLIAN J. DeYOUNG, 1975-1988, Ph.D. ELIZABETH J. MARTIN 1988-1992. Ph.D. V. RUTH GRAY, 1992-1996, Ed.D. JANNE R. DUNHAM-TAYLOR, 1996-1997, Ph.D. (interim) CYNTHIA CAPERS, 1997-, Ph.D.

Wayne College

MARVIN E. PHILLIPS, 1972-1974, M.A. (acting director) JOHN G. HEDRICK, 1974-1974, M.A. (director) JOHN G. HEDRICK. 1974-1979, M.A. (dean) ROBERT L. MCELWEE, 1979-1980, M.A. (acting dean) TYRONE M. TURNING, 1980-1995, Ed.D. (dean) FREDERICK J. STURM, 1995-1997, Ed.D. (dean) JOHN P. KRISTOFCO, 1997-, Ph.D. (dean)

College of Polymer Science and Polymer Engineering

FRANK N. KELLEY, 1988-, Ph.D. (dean)

Current Members of College and School Advancement/Advisory Councils

May 2001

College of Engineering

ement Counc

Mr. Hoyt M. Wells (Chairman), Mr. William J. Bandy, Mr. Allen R. Barber Jr., Mr. James L. Dowey, Mr. Edward S. Gaffney, Mr. John Greco, Mr. Robert A. Handelman, Mrs. Kara Donovan Hayes, Mr. Louis B. Perry, Mr. Rick E. Porter, Mr. John Quinn, Mr. Bruce W. Rogers Jr., Mr. William J. Sharp, Mr. Gary Starr, Mr. Peter Staudhammer, Mr. John W. Stull, Mr. J Michael Talbert, Mr. John Trostheim, Mr. Jerry H. Welty, Mr. James F. Wood.

College of Education

(Alumni Society)

Dr. Phillip P. Martucci, Ms. Joanne Armstrong, Ms. Gwendolyn Bryant, Mr. David Feola, Dr. Sharon Hall, Mrs. Rose Heintz, Ms. Debra Howell, Mrs. Hazel Malone, Mr. Tim Miller, Dr. Jerome Pecko, Mr. Richard Roberts, Ms. Kathleen Shisler.

College of Business Administration

Mr. Richard P. Adante, Ms. Jacquelyne Bailey, Mr. James W. Barnett, Ms. Donna L. Barton, Mr. William L. Caplan, Mr. John H. Costello III, Ms. Debra Cummings, Mr. Philip M. Daetwyler, Mr. Paul F. Denning, Mr. Vincent A. Di Girolamo, Ms. Kathyn W. Dindo, Mr. Edward T. Eliopoulos, Mr. Richard Fedorovich, Mr. William R. Feth, Mr. Edward S. Gaffney, Ms. Linda L. Gentile, Mr. Raymond Heh, Mr. William C. Jennings, Mr. William T. Keevan, Karl Kimmerling, Mr. William G. Maltarich Jr., Mr. Richard H. Marsh, Mr. Robert McMinn, Mr. Robert L. Moore, Mr. Robert R. Morrison, Mr. Dale A. Normington, Mr. Richard G. Norton, Mr. Ronald W. Ocasek, Mr. John Piecuch, Mr. Emie Pouttu, Mr. Roger T. Read, Ms. Suzanne Rickards, Mr. Lawrence E. Saulino, Mr. William Scala, Mr. F. William Steere, Mr. Robert Stefanko, Mr. Donzell S. Taylor, Ms. Sharon L Whitfield

College of Fine and Applied Arts

(Advancement Council)

Ms. Renee Pipitone (Chair), Mr. Bill Bennett, Mrs. Claudia Bowers-Sawyer, Dr. Bonnie Burman, Ms. Nicholi Polites Cannon, Mr. Malcolm Costa, Ms. Diane Ewart, Mrs. Virginia Wojnno Forney, Mrs. Patricia & Gajewski, Mr. Ronald Gajewski, Mrs. Junia Evrait, Wrs. Majina Volini, Mrs. Matrix Sheila Hutzler, Mrs. Mary Ann Jackson, Ms. Karen M. Krino, Mrs. Marilyn E. Lemmon-Sholtis, Ms. Susan L. Martin, Mr. Jim McClusky, Mrs. Peggy McClusky, Mrs. Judy Mendenhall, Dr. Warner Mendenhall, Ms. E. Sue Milligan, Mr. Donald L. Murfin, Mrs. Linda J. Murfin, Ms. Kathryn Myers, Mrs. Nancy L. Reymann, Mrs. Nannette G. Ryerson, Dr. Patricia Sargent, Ms. Jane Walker Snider, Mrs. Janet Scurs, Mr. John Sours, Mrs. Ann E. Weaver, Mr. Joel R. Wolfgang, Mrs. Barbara Gillette (honorary), Mr. Theodore Good (honorary), Mrs. Teresa Good (honorary), Mrs. Jean Mercer (honorary), Dr. James Mercer (honorary), Mr. Walter N. Mirapaul (honorary), Dr. Linda L. Moore (honorary), Dr. Yale Palchick (honorary), Mr. William C. Waldman (honorary), and Mrs. Virginia E. Wilson (honorary).

College of Nursing

nent Council)

Dr. Zouhair C. Yassine (Chair), Mr. Charles Barton, Dr. Cynthia Capers, Dr. Herbert Croft, Dr. Lillian DeYoung (honorary), Dr. Phyllis Fitzgerald, Dr. Aris Franklin, Mr. Richard Gill, Dr. Kristine Gill, Ms. Susan Marks, Mrs. Jan Nankervis, Mrs. June Netzley, Dr. Elaine Nichols, Mrs. Gloria Rookard, Mrs. Diane Vishnia, Ms. Brenda Weems, Ms. Carol Yassine

(Advisory Council)

Dr. Daisy L. Alford-Smith, Mr. Charles Barton, Mrs. Judith Cazzolli, Mr. John Demund, Mrs. Eileen Good, Mrs. Carolyn Gustafson, Dr. Elizabeth Kinion, Mrs. Cathy Koppelman, Dr. Judith Lewis, Ms. Pat Mahovich, Ms. Sondra Marcum, Ms. Hope Moon, Dr. Elaine Nichols, Ms. Jodi Padrutt, Mr. Christopher L. Parker, Ms. Glona Rookard, Mrs. Carol Storad, Mrs. Norma Tomlinson, Ms. Patricia Waickman, Mrs. Joan Feeney Wessman, Dr. N. Margaret Wineman, Mrs. Mary Yeager.

Community and Technical College

(Advisory Comm

Sandy K. Auburn, Vice President, Workforce Development, Akron Regional Development Board; Kimberly R. Baer, Department of Personnel, The City of Akron; David Bokmiller, Manager, Manufacturing Services, Landmark Plastic Corp.; Karen Lefton, Labor Relations Manager, Akron Beacon Journal; Malcolm J. Costa, CEO, Akron, Summit Community Action, Inc.; Timothy A. Dimoff, President, S.A.C.S. Consulting & Investigative Services; Carol F. Goodwin, Global Manager Leadership Development, Godyaer Tire and Rubber Co.;Robert A. Handelman, President, Chemstress Consultant Company; Joseph Kidder, Director of Public Service, Department of Public Service, The City of Akron; Howard Lawson, Director, Career Education; Tracy Marple, General Manager, Akron City Club; Christopher J. Maurer, Senior Vice President, First Menit Corporation; Conrad C. Ott, Staff Development Center; Debra L. Palmer, Vice President, Human Resources and Development, ComDoc; Robert K. Petit, Director of Human Resources, Seaman Corporation; James Phelps, Deputy Mayor, The City of Akron, Office of Resonance Development: Charles J. Smith, Director, Small Business Development Center, Akron Regional Development: Charles J. Smith, Director, Small Business Development Center, Akron Regional Fund; Maureen N. Van Duser, Vice President - Human Resources, Akron General Medical Center; Renee M. Watson, Adult Probation Officer, Court of Common Pleas; Robert C. Weyrick, Dean Emeritus.

Wayne College

(Community Count

Ms. Sara Balzarini, Dr. Susan Buchwalter, Mr. Steven Ellcessor, Mr. William Fellows, Dr. Jack Kristofoo, Mr. John Kropf, Mr. Steve Shapiro, Mr. Bala Venkataraman, Mr. John Waltman, Dr. Theodore Williams.



A

Academic Achievement Programs, 24 Academic Advising, 42 Academic Advisement Center, 91 (see also, Advising, Academic, 42) Academic Dishonesty, 43 (see also, Student Conduct, 28) Academic Reassessment, 43 Academics. 8 Accessibility, Office of, 26 Accountancy, Degree Program, 135 Courses, 255 Accounting Technology, Certificate Program, 180 Accreditation, 7 Adding/Dropping Classes (see policies under Student Schedules, 42) Addiction Services Minor, 166 Certificate Program, 180 Administration, alphabetical listing, 283 Admissions, 36 Admission Procedure, 36 Adult Students, 37 Application Fees, 50 Classification of Students, 36 Direct/Standard/Provisional Admission, 39 Criteria for Direct Admission to Degree-Granting College, 39 Graduating High School Seniors, 36 Guest Students, 39 Home-Schooled Students, 36 International Students and Scholars, 41 Postbaccalaureate Students, 38 Post-Secondary Enrollment, 39 Special Student, 38 Transfer Module, 37 Transfer Students, 3 Adult Resource Center (See Sixty-Plus Program, 27) Adult Students (Admission), 37 **Advanced Placement Credit, 44** Advancement/Advisory Councils, 303 Advertising Certificate, Marketing and Sales Technology, 191 Advertising, E-Marketing and, Degree Program, 138 Advising, Academic, 42 (see also Academic Advisement Center, 91) Aerospace Studies (Air Force ROTC), 93 Courses, 204 Minor, 174 African-American Studies (See Pan-African Studies, 193) Aging Services, Certificate Program, 180 Air Force ROTC (see Aerospace Studies, 93) Allied Health, Degree Programs, 69 Courses, 215 Alternative Credit Fees, 50 Alternative Credit Options, 44 Advanced Placement Credit, 44 Bypassed Credit, 45 College Level Examination Program (CLEP), 45 Credit by Examination, 46 International Baccalaureate, 46 Military Credit, 46 Tech Prep, 46 Transfer Credit, 47 (see also Transfer Module, 37) Animal Physiology (see Biology Areas of Specialization, 100) Anthropology Degree Program, Interdisciplinary, 103 Courses, 225 Minor, 166 Applied Politics, Certificate Program, 181 Applied Politics, Ray C. Bliss Institute for, 200 Army ROTC (see Military Science, 94)

Art, Degree Programs, 139 B.A. Art Education Options, 140 B.F.A. Art Education Options, 141 Courses, 259 Minors, 166 Arts, Associate Studies, Degree Program, 70 Arts and Sciences, Buchtel College of, 98, 221 Admission Requirements, 98 Criteria for Direct Admission, 39 Bachelor of Science/Doctor of Medicine Degree Program, 112 Bypassed Credit, 45 Certificates (see Certificate Programs, 180) Course Materials Fee Schedule, 53 Credit and Grade point Requirements for Graduation, 48 Degrees Awarded, 98 Facilities and Equipment, 15 Humanities Division, 98 Humanities Division Major, 111 Major Field, 99 Minors (see Minor Areas of Study, 166) Natural Sciences Division, 98 Natural Sciences Division Major, 111 **Objectives**, 98 Preparation for High School Teaching, 99 Programs of Instruction, 99 Anthropology (Interdisciplinary), 103, 225 Biology, 99, 222 Chemistry, 101 Classical Studies, Anthropology and Archaeology, 102, 225 Computer Science, 107, 233 Economics, 104, 226 English, 104, 226 Geography and Planning, 105, 228 Geology, 105, 229 History, 106, 230 Interdisciplinary Studies, 97, 99 Mathematics, 106, 232 Modern Languages, 108, 235 Philosophy, 109, 237 Physics, 109, 238 Political Science, 109, 239 Psychology, 110, 240 Sociology, 111, 241 Statistics, 108, 234 Social Sciences Division, 98 Social Sciences Division Major, 112 Associate Degree Programs, Listing of, 9 Associate Degrees, Requirements, 69 Associate Studies, 70 Courses, 208 Associate of Technical Studies, 76 (see also Wayne College) Associated Student Government, 32 Athletics, 31 Attendance, Class, 42 Automated Manufacturing Technology, Degree Program, 67 Courses, 218 Audit Policy, 44

B

Baccalaureate Degree Programs, Listing of, 9 Background, University, 6 Bierce Library, 13 (see also, University Libraries, 20) Bilingual Multicultural Education, Degree Program, 126 **Biology Degree Programs, 99** Areas of Specialization, 99 Courses, 222 Cytotechnology Degree, 99 Medical Technology Degree, 99 Minor, 166 Preparation for High School Biology Teaching, 99 Preparation for Professional School, 99 **Biomedical Engineering, 119** Courses, 246 Biomedical Engineering Research, Institute for, 200 **Biotechnology Specialization, Certificate Program, 181 Black Cultural Center** (see Pan-African Culture and Research Center, 11) Bliss, Ray C., Institute of Applied Politics, 200 Board Rates, Room and, (see Residence Halls, 26) Board of Trustees, 276 Botany (see Biology Areas of Specialization, 99) B.S./M.D., Degree Program, 112, 162 Buchtel College of Arts and Sciences (see Arts and Sciences) **Buildings, Campus, 13** Business Administration, College of, 133, 255 Admission, 133 Criteria for Direct Admission, 39 Advertising, E-Marketing and, 138 Certificates (see Certificate Programs, 180) Cooperative Education, 139, 255 Course Materials Fee Schedule, 56 Credit and Grade-point Requirements for Graduation, 48 Degrees, 134 Entreprenuership, 256 Facilities and Equipment, 16 Finance for Non-Business Students, 255 Graduation, Requirements for, 134 Minors (see Minor Areas of Study, 166) Mission Statement, 133 Programs of Instruction, 135 Accountancy, 135, 255 Finance, 135, 255 General Business, 135, 255 Management, 136, 257 Marketing, 137, 258 Advertising, E-Marketing and, 138 Marketing Management, 137 Sales Management, 137 International Business, 138, 258 **Business Technology, 70** Courses, 212 Minor, 166 Certificate Program, 180 Bypassed Credit, 45

С

Calendar, 2 Campus, Buildings, Hours of, 30 Campus, Buildings, Location, Facilities and Equipment, 13 Campus Diversity, Office of, 11 Campus Patrol, Student, 29 Campus Safety and Security, 29 Canadian Studies, Certificate Program, 182, 221 Career Management, Center for, 25 Experiential Learning, 25 Placement Services, 25 Cartographic Specialization, Certificate Program, 182 Center for Child Development, 32 Certificate Programs, Listing of, 10

Certificate Programs, 180 Aging Services, 180 Addiction Services, 180 Applied Politics, 181 Biotechnology Specialization, 181 Business Management Technology, 181 Canadian Studies, 182 Cartographic Specialization, 182 Child-Care Worker, 182 Computer Information Systems, 182 Computer Physics, 183 Computer Science, 183 Conflict Management (Peace Studies), 184 Construction Engineering Technology, 185 Criminal Justice, 185 Digital Electronics and Microprocessors, 185 Drafting and Computer Drafting Technology, 185 Emergency Management, 186 Entreprenuership, 186 Environmental Studies, 186 Financial Planning, 186 Fire Protection Technology, 187 Geographic and Land Information Systems, 187 Gerontology, 187 Global Selling, 188 Home-Based Intervention, 188 Hospitality Management, 189 Interior Design, 189 International Business, 189 International Development, 190 Latin American Studies, 190 Legal Assisting, 190 Linguistic Studies, 191 Manual Communication, 191 Marketing and Sales Technology, 191 Marketing and Sales Technology: Advertising, 191 Medical Front Office, 192 Medical Transcriptionist, 192 Motion Control Specialization, 192 Office Software Specialist, Office Administration, 192 Office Supervision, 193 Pan-African Studies, 193 Parent and Family Education, 193 Piano Pedagogy, 194 Polymer Engineering Specialization, 194 Post Secondary Teaching, 194 Professional Communication, 195 Professional Selling, 195 Real Estate, 195 Residential Building Technology, 196 Retail Marketing, 196 Russian Area Studies, 196 Small Business Management, 196 Supervision and Management, 197 Surveying Technology, 197 Teaching English as a Second Language, 197 Technical and Skills Training, 197 Transportation Studies, 198 Women's Studies, 198 Chemical Engineering, Degree Programs, 115 Courses, 242 Chemistry, Degree Programs, 101 Polymer Option, 101 Cooperative Education, 102

Courses, 224 Minor, 168 Child Care (see Center for Child Development, 33) Child Care Worker, Certificate Program, 182 **Civil Climate Statement, 7** Civil Engineering, Degree Program, 116 Courses, 243 **Class Attendance**, 42 **Classical Civilization, Minor, 168 Classical Language, Minor, 168** Classical Studies, Anthropology and Archaeology, Degree Program, 102 Courses, 225 Greek, 225 Latin, 225 Minors, 166 **Classification of Students, 36** CLEP (College Level Examination Program), 45 **Closing Policy**, 2 Clothing, Textiles and Interiors (see Fashion Merchandising, 143) **Cocurricular Activities, 31** Associated Student Government, 32 Athletics, 31 Center for Child Development, 32 Departmental Organizations, 31 Directory of Student Organizations, 33 Greek Affairs, 32 Interfaith Council of Ministries, 32 Performing and Visual Arts, 31 Student Publications, 31 University Program Board, 32 Communication, Degree Programs, 152 Courses, 266 Step-Up (programs with C&T College), 153 Minor, 168 Communicative Disorders (see Speech Pathology and Audiology) Community and Technical College, 66, 208 Admission, Criteria for Direct, 41 Allied Health, 69, 215 Medical Assisting Technology, 69, 215 Radiologic Technology, 69, 215 Respiratory Care, 69, 216 Surgical Assisting Technology, 69, 215 Associate Degrees, 69 Associate Studies, 70 Arts, 70 Individualized Study, 70 Associate of Technical Studies, 76 Baccalaureate Degrees, 66 Emergency Management, 66 Engineering Technology, 66 Automated Manufacturing Engineering Technology, 67, 218 Construction Engineering Technology, 68, 220 Electronic Engineering Technology, 67 Mechanical Engineering Technology, 67 Surveying and Mapping, 67 Interdisciplinary Studies, 66, 97 Business Technology, 70 Business Management Technology, 71, 212 Computer Information Systems, 71, 213 Hospitality Management, 70, 211 Marketing and Sales Technology, 72, 213 Office Administration, 73, 214 Real Estate, Certificate Program, 195, 213 Transportation, 74, 214 **Bypassed Credits**, 45 Co-operative Education, 66 Course Materials Fee Schedule, 52 Credit and Grade-Point Requirements for Graduation, 48 Engineering and Science Technology, 74 Drafting and Computer Drafting Technology, 75, 219

Community and Technical College, continued Electronic Engineering Technology, 74, 217 Electromechanical Service Technology, 74, 216 Polymer Technology, 74, 217 Manufacturing Engineering Technology, 75, 218 Mechanical Engineering Technology, 75, 218 Surveying and Construction Engineering Technology, 76, 219 Facilities and Equipment, 16 Minors, 166 Public Service Technology, 76 Community Services Technology, 77, 210 Criminal Justice Technology, 76, 209 Early Childhood Development, 76, 209 Fire Protection Technology, 77, 210 Legal Assisting Technology, 78, 212 Community Health and Wellness Education, Degree Program, 128 Community Services Technology, Degree Program, 77 Courses, 210 Minor, 169 Computer Center (VPCIO Division), 21 **Computer Engineering, 117** Courses, 244 Computer Information Systems, Degree Program, 71 Certificate Program, 182 Courses, 213 Minor, 169 Computer Physics, Certificate Program, 183 Computer Science, Degree Program, 107 Certificate, 183 Courses, 233 Conflict Management Certificate, 184, 221 Conflict Management, Center for, 200 Construction Engineering Technology, Degree Program, 68 Certificate, 185 Courses, 220 Consumer Marketing, Minor, 169 Continuing Education and Evening Division, University of Akron of, 12 **Cooperative Education Programs** (see Center for Career Management, 25) (see also individual academic programs) Corrections (see Sociology, 110) Counseling, Testing, and Career Center, 24 Center for Career Management, 25 Counseling Services, 24 Outreach and Consulting Service, 24 Testing Services, 24 Course descriptions (see Section 8, 204) **Course Materials Fee Schedule, 52** Course Numbering System, 47, 204 Credit by Examination, 46 Credit-Noncredit Option, 44 Crime Prevention, 29 **Crime Statistics, 30** Criminal Justice, Political Science, Minor, 170 Criminal Justice, B.S. in Political Science, 110 Criminal Justice, Certificate Program, 185 Criminal Justice Technology, Degree Programs, 76 Courses, 209 Minor, 170 Criteria for Direct Admission to Degree-Granting College, 39 Culinary Arts (see Food Science or Hospitality Management) Curriculum and Instructional Studies, Degree Program, 126 Courses, 249 Cytotechnology Degree Program (Biology), 100 Courses, 224

D

Dance, Degree Program, 156 Courses, 270 Minor, 170 Organizations, 270 Performance, 271 Data Processing (see Computer Information Services) Day Care (see Center for Child Development) Dean's List, 43 Deans, University, 276, 302 Departmental Numbering System (see Course Numbering System) **Departmental Organizations, 31 Developmental Programs, 92** Courses, 205 Dietetics, Degree Program, 145 Digital Electronics and Microprocessors, Certificate Program, 185 Dining Hall Facilities (see Residence Halls, 27) Direct Admission, Criteria for, 39 Direct/Standard/Provisional Admission, 39 Discipline (see Student Conduct, 28) Disclaimer, 3 Dismissal (see Probation-Dismissal, 43) Distance Learning (see University Libraries, 20) **Diversity Opportunities, 32 Doctoral Degree Programs, Listing of, 8** Dormitories (see Residence Halls, 26) Drafting and Computer Drafting Technology, Degree Program, 75 Certificate, 185 Courses, 219 Dropping/Adding Classes (see policies under Student Schedules, 42) **Drug and Alcohol Prevention, 29**

Ξ

E-Marketing and Advertising Degree Program, 138 Minor, 270 Early Childhood Development, 76 Early Childhood Education, Degree Program, 123 Courses, 209 Ecology (See Biology) Economic Education, Center for, 200 Economics, Degree Program, 104 Cooperative Education, 104 Courses, 226 Labor Economics, 104 Minors, 170 Education, College of, 121, 247 Admission, 121 Criteria for Direct Admission, 40 Bachelor Degrees, 122 Clinical and Field-Based Experiences, 122 Cooperative Education, 123, 247 Computer/Technology, 124 Course Materials Fee Schedule, 55 Credit and Grade-Point Requirements for Graduation, 48 Curriculum and Instruction, 249 Dance Licensure, 129 Educational Foundations and Leadership, 247 Educational Guidance and Counseling, 253 Educational Technology, 254 Facilities and Equipment, 17 Licensure, 122 Objectives, 121 Professional Preparation, 122

Education, College of, continued Programs of Instruction, 121 Bilingual Multicultural Education, 126 Community Health and Wellness Education, 128 Curriculum and Instructional Studies, 126 Early Childhood Education, 123, 247 Health, 126, 252 Middle Level Education, 124, 248 Outdoor Education, 126, 252 Physical Education, 126, 250 Secondary (Adolescent to Young Adult) Education, 125, 248 Technical Education, 126, 249 Special Education, 130, 253 Requirements, 121 School Nurse Certification, 128 School Psychology, 254 Special Educational Programs, 254 Students Enrolled in Other Colleges, 123 Student Teaching, 122 Teacher Education Program, 122, 247 Technical, 126, 249 TESOL (Teaching English to Speakers of Other Languages), 126 Educational Technology, 254 Electrical Engineering, Degree Program, 116 Courses, 244 Electromechanical Service Technology, Degree Program, 74 Courses, 216 Electronic Engineering Technology, Degree Programs, 74 Bachelor of Science, Degree Program, 67 Courses, 217 Elementary Education (see Early Childhood) Emergency Management, Degree Program, 66 Certificate Program, 186 **Emergency Phone Numbers, 4, 30 Emergency Phones, 30** Emeritus Faculty, 276 Employment, Student, 63 Engineering Center, Microscale Physiochemical, 202 Engineering, College of, 114, 242 Admission, 114 Criteria for Direct Admission, 39 **Bypassed Credit**, 45 Cooperative Education Program, 114 Course Materials Fee Schedule, 55 Courses, 242 Credit and Grade-Point Requirements for Graduation, 48 Degrees Offered, 114 Facilities and Equipment, 17 Graduation, Requirements for, 114 Objectives, 114 Polymer Engineering Specialization Certificate (Chemical Engineering), 115 Polymer Engineering Specialization Certificate (Mechanical Engineering), 118 Programs of Instruction, 115 Bachelor of Science Program, 120 Biomedical, 119, 246 Chemical, 115, 242 Civil, 116, 243 Computer Engineering, 117, 244 Electrical, 116, 244 Mechanical, 117, 245 Mechanical Polymer Engineering, 118, 246 Requirements, 114 Engineering and Science Technology, 74 Engineering Geology, 105 Engineering, Polymer, 163, 273 (see also Polymer Science and Polymer Engineering, College of; Mechanical Polymer Engineering; and Chemical Engineering Polymer Engineering Certification)

Engineering Technology, 66

English, Associate Studies, 208

English, Degree Program, 104 Courses, 226 Minors, 171 English Language Institute, 201 **Entreprenuership Programs** Certificate, 186 Courses, 256 Minor, 171 **Entrepreneurial Studies, William and Rita Fitzgerald Institute for, 201** Environmental Health and Safety Technology, 82 Environmental Studies, Center for, 200 Environmental Studies, Certificate Program, 186, 221 Equal Education and Employment Opportunity Statement, 3 Evening Division, University of Akron Continuing Education and, 12 Expenses (see Fees)

F

Facilities and Equipment, 15 Faculty, Alphabetical, Listing of, 283 Faculty, by College, Listing of, 297 Faculty, Emeritus, 276 Family Business, Center for, 200 Family and Child Development, Degree Program, 142 Family and Consumer Sciences, Degree Programs, 142 Courses, 261 Dietetics, 145 Family and Child Development, 142 Child Development Child Life Specialist Family Development Family and Consumer Science Teacher Education, 147 Fashion Merchandising, 143 Step-Up programs with C&T College, 145 Food Science, 143 Interior Design, 144, 189 Marketing and Sales Technology (Step-Up programs with C&T College), 144 Minor, 171 Family and Consumer Science Teacher Education, Degree Program, 147 Family Studies, Center for, 200 Fashion Merchandising, Degree Program, 143 Fees and Expenses, 50 Admission Application Fee, 50 Alternative Credit Fees, 50 Auditors, 50 Course Materials Fee Schedule, 52 Graduation Fees, 50 Installment Payment Plan, 59 Miscellaneous Fees, 50 Orientation Program Fees, 50 Parking Fees, 52 Registration and Other Related Fees, 50 Student Health and Accident Insurance, 59 Technology Fees, 52 Tuition and Fees, 50 Typical Annual Student Expenses, 50 Veterans Expenses, 59 Refunds, 59 Room and Board Rates, 26 FERPA (Family Education Rights and Privacy Act), 64 Finance, Degree Program, 135 Courses, 256 Minors, 172 Finance for Business Majors, Minor, 172 Finance for Non-Business Students, 255

Financial Aid, 28, 62 Application, 63 Computation, 63 Distribution of Aid, 63 Eligibility, 63 Family Education Rights and Privacy Act (FERPA), 64 Mission, 62 Notification of Award, 63 Revision of Awards, 63 Sources of Aid, 62 Student Rights and Responsibilities, 64 Standards of Satisfactory Progress, 64 Refund/Repayment Schedule, 64 Financial Planning, Minor, 172 Certificate, 186 Financial Services for Non-Business Majors, Minor, 172 Fine and Applied Arts, College of, 139, 259 Admission, 139 Criteria for Direct Admission, 40 Applied Music, 265 Art Education Options, 140 (B.A.), 141 (B.F.A) Bypassed Credit, 45 Certificates (see Certificate Programs, 180) Course Materials Fee Schedule, 56 Credit and Grade-Point Requirements for Graduation, 48 Dance Organizations, 270 Dance Performance, 271 Degrees Offered, 139 Facilities and Equipment, 19 Graduation Requirements, 139 Minors (see Minor Areas of Study, 166) Musical Organizations, 265 Overview, 139 Programs of Instruction, 139 Art, 139, 259 Communication, 152, 266 Dance, 156, 270 Family and Consumer Sciences, 142, 261 Dietetics, 145 Family and Child Development, 142 Fashion Merchandising, 143, 145 Food Science, 143 Family and Consumer Science Teacher Education, 147 Interior Design, 144 Marketing and Sales Technology (Step-Up programs), 144 Senior Honors Program, 147 Music, 147, 263 Social Work, 154, 268 Speech-Language Pathology and Audiology, 154, 267 Theatre, 155, 269 Theatre Organizations, 270 Fire and Hazardous Materials Research, Training Center for, 202 Fire Protection Technology, 77 Certificate Program, 187 Courses, 210 Minor, 172 Food Science, Degree Program, 143 Foreign Languages, Degree Program (see Modern Languages, 108) Fraternities (see Greek Affairs, 32) French (see also Modern Languages, 108), Degree Program, 108 Courses, 235

G

Gardner Student Center, 25 General Business, Degree Program, 135 Courses, 255 General Education Requirements (University College), 90 **General Engineering, 242** General Technology, 216

Geography and Planning, Degree Programs, 105 Cartographic Specialization, Certificate Program, 182 Courses, 228 Geographic and Land Information Systems, Certificate Program, 187 Geography/Cartography, 105 Minor, 172 Planning, Certificate Program, 194 Geology, Degree Programs, 105 Courses, 229 Minor, 173 Geophysics (see Geology, 105) German, Degree Program, 108 (see also Modern Languages, 108) Courses, 236 Gerontology, Certificate Program, 187, 221 **Global Business, Institute for, 201** Global Selling, Minor, 173 Certificate Program, 188 Grade Policies and Credit, 42 Academic Dishonesty, 43 Academic Reassessment, 43 Audit Policy, 44 Credit-Noncredit, 44 Dean's List, 43 Grades and Grading System, 42 Probation-Dismissal, 43 Repeating Courses, 43 Student Outcome Assessment, 44 Transient Work, 44 Graduate School, Degree Programs, Listing of, 8 Graduation Fees, 50 Graduation Requirements, 47 Associate Requirements, 47 Baccalaureate Requirements, 47 Change of Requirements, 47 Credit and Grade-Point Requirements, 48 Graduation with Honors, 49 Grants and Loans, Student (see Financial Aid, 62) Greek Affairs, 32 (see also Directory of Student Organizations, 33) Greek (see Classics) **Guest Students** Admission, 39 Status, 42

Η

Handicapped (see Office of Accessibility, 26) Health and Safety, 30 Health and Social Policy, Institute for, 202 Health Education, Degree Program, 126, 128 Courses, 252 Health and Accident Insurance, Student, 59 (see also Student Health Services, 28) Health Services, Student, 28 High School Seniors, Graduating (Admission), 36 History, Degree Programs, 106 Courses, 230 Minor, 173 History of the University, 6 Home-Based Intervention, Certificate Program, 188, 207 Home Economics and Family Ecology (see Family and Consumer Sciences) Home-Schooled Students, (Admission), 36 Honors Program (see University Honors Program) Hospitality Management, Degree Program, 70 Certificate Program, 189 Courses, 211 Minors (see Minors of Study), 173 Housing (see Residence Halls, 26) Humanities Division Major, 111

Independent Student (see Financial Aid, 62) Individualized Study, Degree Program, 70 Courses, 209 Industrial Accounting, Degree Program (see Management), 136 Information Services (VPCIO Division), 21 Inquiries, 3 Installment Payment Plan, 59 Institutes (see Research Centers and Institutes, 200) Insurance, Student Health/Accident, 59 (see also Health Services, Student, 28) Interfaith Council of Ministries, 32 Interior Design, Degree Program, 144 Certificate, 189 Intercollegiate Athletics (see Athletics, 31) Interdisciplinary Studies, Bachelor of Arts, Degree Program, 97 Interdisciplinary Programs (see Certificate Programs, 180, 207) International Baccalaureate, 46 International Business, Degree Program, 138 Certificate, 189 Courses, 258 Minor, 173 International Education, 10 International Programs, Office of, 26 International Students Admission, 41 Admission Procedure, 41 Financial and Immigration Documentation, 41 Medical Insurance Coverage, 41 Orientation, 41 Scholarships, 41 Study, Work, Travel Abroad, 10 Italian, 236 (see also Modern Languages, 108)

J

Job Location and Development (see Center for Career Management, 25) Journalism (see Communication, 152)

L

Labor Economics (see Economics), 104 Minor, 170 Latin, 225 Latin American Studies, Certificate Program, 190 Law Enforcement (see Sociology, 111) (See also Criminal Justice Technology, 76) Law Enforcement and Criminal Justice, Training Center for, 202 Law, School of, 8 Learning Communities, 92 Learning Laboratories, 92 Legal Assisting, Certificate Program, 190 Legal Assisting Technology, Degree Program, 78 Courses, 212 Libraries, University, 20 Licensure, State Teacher, 122 Life-Span Development and Gerontology, Institute for, 202, 221 Linguistic Studies, Certificate Program, 191 Loans, Student (see Financial Aid, 62) Location of campus, 13 Lorain Community College, University Partnership Program, 11

\mathbf{N}

Management, Degree Program, 136 Courses, 257 Minor, 174 Manual Communication, Certificate Program, 191 Manufacturing Engineering Technology, Degree Programs, 75 Courses, 218 Marketing, Degree Programs, 137 Certificate in Professional Selling, 195 Courses, 258 Minor in Sales Management, 177 Marketing and Sales Technology, Degree Programs, 72 Certificates, 191 Courses, 213 Minor, 174 Mass Media Communication (see Communication, 152) Mathematics, Associate Studies, 208 Mathematical Sciences, Degree Programs, 106 Cooperative Education, 107 Courses, 232 Minor, 174 Mathematics and Computer Science, Minor, 174 Maurice Morton Institute of Polymer Science, 202 Meal Plans (see Residence Halls, 27) Mechanical Engineering, Degree Program, 117 Courses, 245 Mechanical Engineering Technology, Degree Programs, 75 Bachelor of Science, Degree Program, 67 Courses, 218 Mechanical Polymer Engineering, Degree Program, 118 Courses, 246 Medical Assisting Technology, Degree Program, 69 Courses, 215 **Medical School** (see B.S./M.D. Program, 112; and Northeast Ohio Universities College of Medicine, 162) Medical Front Office, Certificate Program, 192 Medical Technology, Degree Program (Biology), 100 Courses, 223 Medical Transcriptionist, Certificate Program, 192 Medical Studies, courses, 207 Medicine, (see B.S./M.D., Degree Program, 112) Medina Professional Development Center, 11 Microbiology (see Biology Areas of Specialization, 100) Microscale Physiochemical Engineering Center (MPEC), 202 Middle Level Education, Degree Programs, 124 Courses, 248 Military Credit, 46 Military Science (Army ROTC), 94 Courses, 206 Minor, 175 Ministries, Interfaith Council of, 32 Minor Areas of Study, 166 Addiction Services, 166 Anthropology, 166 Art, 166 Biology, 167 Business Administration for Non-Business Majors, 167 Business Management Technology, 167 Chemistry, 168 Classical Languages, 168 Classical Civilization, 168 Communication, 168 Community Services Technology, 169 Computer Information Systems, 169 Consumer Marketing, 169 Criminal Justice Technology, 170 Dance, 170 E-Marketing, 170 Economics, 170

Minor Areas of Study, continued English, 171 Entreprenuership, 171 Family and Consumer Sciences, 171 Finance for Business Majors, 172 Financial Planning, 172 Financial Services for Non-Business Majors, 172 Fire Protection, 172 Geography and Planning, 172 Geology, 173 Global Selling, 173 History, 173 Hospitality Management, 173 International Business, 173 Management, 174 Marketing and Sales Technology, 174 Mathematics and Computer Science, 174 Military Studies: Aerospace Studies, 174 Military Studies: Military Science, 175 Modern Languages, 175 Music, 175 Office Administration, 175 Philosophy, 175 Physics, 176 Political Science, 176 Psychology, 177 Sales Management, 177 Sociology, 177 Speech-Language Pathology and Audiology, 177 Statistics, 177 Theatre Arts, 177 Transportation, 177 Women's Studies, 178 Minority Affairs (see Campus Diversity, Office of, 11) Mission/Strategic Directions of the University, 6 Modern Languages, Degree Programs, 108 Courses, 235 French, 108, 235 German, 108, 236 Italian, 236 Minors, 175 Russian, 236 Spanish, 108, 236 Multicultural Education, Bilingual and, 126 Music, Degree Programs, 147 Applied Music, 265 Bachelor of Music, 149 Composition, 151 History and Literature, 151 Jazz Studies, 151 Music Education, 151 Performance (varied emphases), 149-151 Courses, 263 Minor, 175 Organizations, 265

N

National Guard, Special Reserve Programs, 95 Natural Sciences, Division Major, 111 New Student Orientation, 42 Noncredit Programs (see University of Akron Service Consortium) Northeastern Ohio Universities College of Medicine (NEOUCOM), 162 (see also B.S./M.D. Program, 112) Nursery, Pre-School (Center for Child Development, 32) Nursing, Center for, 201 Nursing, College of, 158, 272 Admission, 158 Criteria for Direct Admission, 40 Agencies, 161 Basic Baccalaureate Program, 159 (Full- and Part-Time Options) Bypassed Credit, 45 Course Materials Fee Schedule, 58 Credit and Grade-Point Requirements for Graduation, 48 Facilities and Equipment, 20 Goals, 159 L.P.N./B.S.N. Sequence, 161 Mission, 158 Philosophy, 158 Reapplication, 159 Requirements for Graduation, 159 R.N./B.S.N. Registered Nurse Sequence, 160

0

Off-Campus Programs, 11
Office Administration Degree Program, 73, 214

General Office Assistant Certificate Program, 192
Minor, 175

Office Software Specialist, Office Administration, Certificate Program, 192
Office Supervision, Certificate Program, 193
Officers of the Board, 276
Organizational Development, Center for 201
Orientation, New Student, 42

Orientation fees, 50
University Orientation course, 92

Outdoor Education, Degree Program, 126

Courses, 252

P

Pan-African Culture and Research Center, 11 Pan-African Studies: Certificate Program, 193 Paralegal (see Legal Assisting Technology, 78) Parking Fees, 52 Performing and Visual Arts, 31 Philosophy, Degree Program, 109 Courses, 237 Minors, 175 Phone Numbers, 4 Emergency Phone Numbers, 30 Physical Education (5540: and 5550:), Degree Programs, 126 Courses, 250 Physics, Degree Program, 109 Computer Physics Certificate Program, 183 Courses, 238 Minor, 176 Physiology, Animal (see Biology Areas of Specialization) Placement Services, 25 Planning, Certificate Program, 194 Police, University, 29 Policy Studies, Institute for, 201 Political Science, Degree Programs, 109 Applied Politics, Certificate Program, 181 Courses, 239 Minors, 176 Political Science/Criminal Justice, Minor, 176 Polymer Engineering, Institute of, 202 Polymer Engineering, 273 Certificate Program, 194 (see also Polymer Engineering Specialization, Mechanical and Polymer Engineering Specialization, Chemical Engineering)

Polymer Engineering Specialization (Mechanical Engineering), 118 Polymer Engineering Specialization (Chemical Engineering), 115 Polymer Science and Polymer Engineering, College of, 163, 273 Facilities and Equipment, 20 Polymer Science, Maurice Morton Institute of, 202 Polymer Technology, Degree Program, 74 Courses, 217 Postbaccalaureate Student (Admission), 38 Post-secondary Enrollment Option, 39 Pre-School, Nursery (see Center for Child Development, 32) Presidents, University, 301 President and Vice Presidents, 276 Probation-Dismissal, 43 **Procedures and Requirements, 42** Academic Advising, 42 Alternative Credit Options, 44 Class Attendance, 42 Course Numbering System, 47 Grade Policies and Credit, 42 Graduation Requirements, 47 New Student Orientation, 42 Registration, 42 Student Schedules, 42 **Professional Communication, Certificate Program, 195** Professional Selling, Certificate Program, 195 Professional Selling, Fisher Institute for, 201 Psychology, Degree Programs, 110 Courses, 240 Minors, 177 **Publications, Student, 31** Public Relations (see Communication, 152) Public Service Technology, Degree Programs, 76

R

Radiologic Technology, Degree Program, 69 Courses, 215 Real Estate Certificate Program, 195 Courses, 213 **Refunds, Regulations Regarding, 59** Refund/Repayment Schedule, 64 **Registration**, 42 **Repeating Courses, 43 Research Centers and Institutes, 200** Applied Politics, Ray C. Bliss Institute of, 200 Biomedical Engineering Research, Institute for, 200 Conflict Management, Center for, 200 Economic Education, Center for, 200 Engineering Center, Microscale Physiochemical, 202 English Language Language Institute, 201 Entrepreneurial Studies, William and Rita Fitzgerald Institute for, 201 Environmental Studies, Center for, 200 Family Business, Center for, 200 Family Studies, Center for, 200 Fire and Hazardous Materials Research, Training Center for, 202 Global Business, Institute for, 201 Health and Social Policy, Institute for, 202 Law Enforcement and Criminal Justice, Training Center for, 202 Life-Span Development and Gerontology, Institute for, 202 Nursing, Center for, 201 Organizational Development, Center for, 201 Policy Studies, Institute for, 201 Polymer Engineering, Institute of, 202 Polymer Science, Maurice Morton Institute of, 202 Professional Selling, Fisher Institute for, 201 University Research Council, 200 Urban Studies, Center for, 201 Reserve Officer Training Corps (ROTC), 93, 206 (see Aerospace Studies - Air Force, or Military Science - Army)

Residence Halls (Residence Life and Housing), 26 Access (Safety and Security), 27 Dining and Meal Plans, 27 Refunds, 60 Residence Hall Program Board (RHPB), 27 Residence Halls, 27 Residence Hall Student Council (RHC), 27 Room and Board Rates, 26 Summer Housing, 27 Vacation Housing, 27 **Residency Requirements, 60** Respiratory Care, Degree Program, 69 Courses, 216 Restaurant Management (see Food Science or Hospitality Management) Retail Marketing, Certificate Program, 196 Room and Board (see Residence Halls; see also, Fees) Russian Area Studies, Certificate Program, 196 Russian Courses, 236 (see also Modern Languages)

5

Safety and Security, Campus, 29 Sales Management, Minor, 177 (see also Professional Selling Certificate Program) Schedules, Student, 42 Adding courses, 42 Guest Student Status, 42 Withdrawal, 42 Scholarships (University Programs), 62 School Nurse Certification, 128 School of Law, 8 School Psychology, 254 Secondary Education (All Fields), Degree Programs, 125 Courses, 248 Secretarial Science (see Office Administration, 73) Sixty-Plus Program, 27 Small Business Management, Certificate Program, 196 Social Sciences, Associate Studies, 112 Social Sciences Division Major, 112 PPE Track, 112 Social Work, Degree Program, 154 Courses, 268 Sociology, Degree Programs, 111 Courses, 241 Minor 177 Sororities (see Greek Affairs, 32) Spanish, Degree Program, 108 (see also Modern Languages) Courses, 236 Special Education, Degree Programs, 130 Courses, 253 Special Reserve and National Guard Reserve Programs, 95 Special Student (Admission), 38 Speech Language Pathology and Audiology, 154 Courses, 267 Minor, 177 Sports Activities (see Athletics, 31) Statistics, Degree Program, 108 Courses, 234 Minor, 177 Student Affairs, 24 Academic Achievement Programs, 24 Center for Career Management, 25 Counseling, Testing and Career Center, 24 Gardner Student Center, 25 Office of Accessibility, 26 Office of International Programs, 26 Residence Life & Housing, 26 Sixty Plus (60+) Program, 27 Student Financial Aid, 28 Student Health Services, 28 Student Development, 28

Student Campus Patrol, 29 Student Center, Gardner, 25 Student Conduct, 28 (see also, Academic Dishonesty, 43) Student Development, 28 Student Employment, 63 Student Financial Aid, 28 Student Government (see Associated Student Government, 32) Student Health Services, 28 Student Organizations, Directory of, 33 Student Outcome Assessment, 43 Student Teaching, 122 Student Trustees, 276 Student Volunteer Program, 63 Study, Work, Travel Abroad, 10 Summer Sessions, 12 Supervision and Management, Certificate Program, 197 Supplemental Educational Opportunity Grant, Federal (SEOG) (see Financial Aid. 62) Surgical Assisting Technology, Degree Program, 69 Courses, 215 Surveying and Construction Engineering Technology, Associate Degree Program, 76 Courses, 219 Surveying and Mapping, Baccalaureate Degree Program, 67 Courses, 219 Surveying Technology, Certificate Program, 197

T

Teaching English as a Second Language (TEOSL) TESOL Validation, 126 Certificate Program, 197 **Technical Education, Degree Programs, 126** Courses, 249 Technical and Skills Training, Certificate Program, 197 **Technology Fees**, 52 Tech Prep program, 46 **Telephone Numbers, 4, 30** Testing Service (see Counseling, Testing and Career Center, 24) Theatre, Degree Programs, 155 Courses, 269 Minor, 177 Theatre Organizations, 270 **TOEFL** (see International Students and Scholars, 41) Transfer Credit, 47 Transfer Module, 37 Transfer Students (Admission), 37 Transient Work, 44 Transportation, Degree Program, 74 Certificate (Transportation Studies), 198 Courses, 214 Minor, 177 Tuition and Fees (see Fees and Expenses, 50) **Tutorial Programs, 92**

U

University of Akron, Continuing Education and Evening Division, 12 University College, 90 Academic Advisement Center, 91 Developmental Programs, 92 General Education Requirement, 90 Objectives, 90 University Orientation Course, 92 (see also Orientation, New Student, 42) University Closing Policy, 2 University Honors Program, 10, 96 Courses, 207 University Libraries, 20 University Partnership Program, 11 University Presidents, 301 University Program Board, 32 University Police, 29 University Research Council, 200 Urban Studies, Center for, 201

V

Veterans Expenses, 59 Vice Presidents, 276 Volunteer, Student Program, 63

W

Wayne College, 10, 79 Admission, 79 Certificate Programs, 83 Gerontological Social Services, 83 Information Processing Specialist, 83 Legal Office Assistant, 83 Medical Billing, 83 Medical Transcription, 83 Network Management Specialist, 83 Office Software Specialist, 84 Personal Computer Repair, 84 Therapeutic Activities, 84 Credit and Grade-Point Requirements for Graduation, 48 Degree Programs, 79 Associate of Arts/Associate of Science, 79 Business Management Technology, 80 Computer Service and Network Technology, 82 Environmental Health and Safety Technology, 82 Health Care Office Management, 81 Office Administration, 81 Social Services Technology, 80 General Education and Transfer Program, 84 History and Mission, 79 Withdrawal from Class, 42 Women's Studies, Certificate Program, 198 Courses, 207 Minor, 178 Work-Study Program (see Financial Aid, 62)

Z

Zoology (see Biology Areas of Specialization)

.



- A 22 The Polsky Building POL
 Academic Center PENG/PEAC

Carroll Street Substation ESU8
 Carroll Street Substation ESU8
 Carroll Street Substation ESU8
 Complete for Child Development CCD
 Computer Carter CoMP
 Computer Carter COMP
 Computer Carter COMP
 Course Hall CRH
 Course Hall CRH
 240 240 East Exchange Building PFST
 250 240 East Exchange Building PFST
 254 25 Express Building EB
 264 Folk Hall FOLK
 215 Torge Street Substation FSUB
 216 Gardner Sudent Center G&C
 219 66 Gardner Sudent Center G&C

C7 61 Carroll Street Substation ESUB

- Academic Center FENG/FEAC 16 56 Janes A. Rhodes Health and Physical Education Building JAR F5 29 Robertson Dining Hall and Health Services RD E7 62 Schrank Hall North SHN E8 63 Schrank Hall South SHN E8 63 Schrank Hall South SHN E8 63 265 South Broadway Street Building BROD 15 28 265 South Broadway Street Building BROD 15 29 265 South Broadway Street Building BROD 15 20 275 South Broadway Street Building BROD 15 20 275 South Broadway Street Building BROD 15 20 275 South Broadway Street Building BROD 15 20 265 South Broadway Street Building BROD 15 20 265 South Broadway Street Building BROD 15 20 275 South Broadway Street Building BROD 15 275 South Broadway Street Building BROD 15 275 South Broadway Stree
- H1 1 32 South College Street Building COLL IS 31 Stitzlein Alumni Center AAC

Fraternities and Sometties

- K9 74 Alpha Delta Pi Sorority (AØT) 17 66 Alpha Gamma Delta Sorority (ALT2) 17 71 Alpha Phi Sorority (A4)

Campus Construction Sites

- Δ
- D. n. i