## 1997 – 1998 UNDERGRADUATE BULLETIN

# THE UNIVERSITY

THIS IS TO CERTIFY INFORMATION CONTAINED IN THIS PUBLICATION IS TRUE AND CORRECT IN CONTENT AND POLICY. SIGNED:

DATE: 1/23/98

TITLE Cognition

## CONTENTS

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1997–1998 Undergraduate Bulletin

SECTION ONE
SECTION TWO
Student Affairs
Campus Safety and Security Information
Cocurricular Activities
SECTION THREE
Admissions
Procedures and Requirements
Fees and Expenses
Financial Aid
SECTION FOUR
Undergraduate Academic Programs
SECTION FIVE
Minor Areas of Study
SECTION SIX
Interdisciplinary and Certificate Programs
SECTION SEVEN
Research Centers and Institutes
and the second
SECTION EIGHT 183
Courses of Instruction
DIRECTORY
INDEX

### Calendar 1997-98

### Fall Semester 1997

Day and Evening Classes Begin \*Labor Day(Day and Evening) Veterans Day (Classes held; staff holiday) \*\*Thanksgiving Break Classes Resume Final Instructional Day Final Examination Period Commencement Spring Intersession

Monday, Aug. 25 Monday, Sept. 1 Tues., Nov. 11 Thurs.–Sat., Nov. 27-29 Mon., Dec. 1 Sat., Dec. 6 Mon.–Sat., Dec. 8-13 Sat., Dec. 13 Fri.-Sat., Jan. 2–10, 1998

### Spring Semester 1998

Day and Evening Classes Begin	Mon., Jan. 12
*Martin Luther King Day	Mon., Jan. 19
*Presidents' Day	Tues., Feb. 17
Spring Break	Mon.–Sat., March 16-21
***May Day	Fri., May 1
Final Instructional Day	Sat., May 2
Final Examination Period	Mon.–Sat., May 4-9
Commencement	Sat., May 9
Summer Intersession	Mon.–Fri., May 11-June 5
Commencement for Law School	Sun., May 17

### Summer Session I 1998

First 5- and 8-Week Session Begins	Mon., June 15
*Independence Day	Fri., July 3
First 5-Week Session Ends	Sat., July 18

### Summer Session II 1998

Second 5-Week Session Begins	Mon., July 20
8-Week Session Ends	Sat., Aug. 8
Second 5-Week Session Ends	Sat., Aug. 22
Summer Commencement	Sat., Aug. 22

### Fall Semester 1998

Day and Evening Classes Begin Mon., Aug. 31

\* Classes Canceled

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

\*\*\* Classes canceled from noon to 5 p.m.

### University Closing Policy

The president, or designee, upon the recommendation of the Director of Public Safety and Chief of Police, 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 Director of Public Safety and 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 972-SNOW or 972-6238 (TDD/Voice) for updated 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) 972-7100, 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.

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 entitled 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 should be referred to:

Affirmative Action and Equal Employment Opportunity Officer

Nell M. Russell 277 Broadway Building, Room 212 The University of Akron Akron, OH 44325-4709 (330) 972-7300

Information on Title IX (sex discrimination) may be obtained from: Nell M. Russell, Title IX Coordinator (330) 972-7300

The Undergraduate Bulletin is published once each year by the Division of Student Affairs, Buchtel Hall 51

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POSTMASTER:

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



### **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

### Colleges

Buchtel College of Arts and Sciences	
Community and Technical College	
College of Business Administration	
College of Education	
College of Engineering	
College of Fine and Applied Arts	
College of Nursing	
College of Polymer Science and Polymer Engineering	g972-7500
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. (Stride Toward Excellence Program) Upward Bound Upward Bound Math and Science Programs	
Academic Advisement Center	
Admissions, Office of Toll-Free Application Status Inquiries Freshmen	
A-G	
H-O	
P-Z Transfer	
Assistant Vice President and Dean of Students	
Associate Vice President for Student Affairs	
Associated Student Government	
Black Cultural Center	
Buchtelite, The (student newspaper)	
Center for Child Development	
Communication Centers (photocopying)	
Bierce Library	
Gardner Student Center	
Cooperative Education Programs	
Counseling, Testing, and Career Center	
Counseling Services	
Testing Services	
Career Services	
Coventry North, The University of Akron Center at	
Developmental Programs Math Lab	
Reading Lab and Study Skills Center	
Tutorial Programs	
Writing Lab	
English Language Institute	
Financial Aid, Office of Student	
Scholarships	
Work Study	

Gardner Student Center	072 7966
Graduate School	
Graek Affairs	
Health Services, Student	
Honors Program	
International Programs Immigration	
International Admissions	
Intramural Sports	
Minority Affairs, Office of	
Minority Retention	
Minority Student Support Services	
Libraries, University	
Bierce Library	972-7236 or 972-7497
Law Library	
Science and Technology Library	
University Archives	
New Student Orientation	
Parking Services	
Peer Counseling Program	
Placement Services Cooperative Education	070 6700
Cooperative Education	
Student Employment	
Student Volunteer Program	
Registrar, Office of the University	
Graduation Office	
Records and Transcripts	
Residence Life and Housing	
Services for Students with Disabilities	
TTY/TDD	
Sports Information, Director of	
Student Assistance Center	
Student Conduct	
Student Development, Office of	
Study Abroad	
Ticketmaster	
Tours (of the University)	
Transfer and Articulation	
University Program Board	
Veterans Affairs Coordinator and Counselor	
Work Study	
WZIP-FM Radio Station	

### **Emergency Phone Numbers**

Police/Fire/EMS	
Police (non-emergency)	
Anonymous Crime Reports	972-TIPS (8477)
Campus Patrol	
University Switchboard	<b></b>
Closing Information	972-SNOW (7669)

## SECTION ONE

About The University of Akron

## Background

### HISTORY

The connection between The University of Akron and its surrounding community has been a recurring theme from the institution's founding as a small denominational college in 1870 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. In the 1930s and 1940s, with the establishment in Akron of the Guggenheim Airship Institute, UA scientists studied the structure and design of zeppelins. 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.

But research, innovation, and creativity actively take many forms at the University—in the sciences and in the arts and humanities. Today UA faculty study ways of matching workers with jobs to maximize performance; they develop new ways to synthesize fuel; they write and produce plays, pen poetry, choreograph dance works; they explore improved methods of tumor detection; they evaluate the quality of water in Northeast Ohio; they provide speech and hearing therapy to hundreds of clients; and they study political campaign financing and reform. UA'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.

And the University has maintained an openness to innovation in other ways. As early as the 1880s, Buchtel College was liberalizing its curriculum by allowing students to choose free electives within their courses of study. The University later adopted and developed the general education concept, which represents an attempt to prepare students for both their personal and their professional lives by providing a balance between courses that teach them how to make a living and courses that teach them about life as we know it in Western civilization. As early as 1914, nine University engineering students headed out into Akron factories, initiating one of the country's first engineering cooperative education programs. World War I-era students included the nation's first female students to co-op in a commercial job.

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-age students and adult 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. Doctoral work has now expanded to programs leading to the highest academic degree in 13 fields of study. In 1963 the receipt of state tax monies made UA a state assisted municipal university, and on July 1, 1967, The University of Akron officially became a state university. Today, more than 24,000 students from 35 states and 80 foreign countries are enrolled in its 10 degree-granting units. The University of Akron is among the 60 largest universities in the nation and boasts the third-largest principal campus enrollment of Ohio's state universities. The University offers a comprehensive academic package featuring select programs unsurpassed nationally and internationally. Alumni of the University number about 103,000 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 76 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 has achieved a position of prominence in a number of intercollegiate sports. Having joined the Mid-American Conference in 1991, the University participates on the NCAA Division I level in 17 sports.

For more than a century 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, a source of enrichment, education, and vitality for Northeast Ohio. Our history is a long and proud one—but 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 urban 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.

### STRATEGIC DIRECTIONS

The following strategic directions provide further definition of the University's mission and serve as the bases upon which the colleges, departments, and service units of the University are establishing program objectives now and toward the 21st century.

#### **Strategic Direction I**

Attract and retain a higher quality and more diverse student body.

#### **Strategic Direction II**

Identify and eliminate barriers to a campus culture of service, and make every effort to improve the campus environment.

#### Strategic Direction III

Increase student retention and progress toward completion of their academic program.

#### Strategic Direction IV

Improve the quality of the undergraduate experience.

#### Strategic Direction V

Cultivate scholarly and creative activities that are recognized regionally, nationally, and internationally.

#### Strategic Direction VI

Acquire and efficiently utilize the human, informational, financial, and physical campus resources needed to fulfill the mission of The University of Akron.

### 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, outlooks, 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, spiritual 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/learning 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 have a right to expect that they will not be sexually 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. The University of Akron has been approved by the North Central Association of Colleges and Schools since 1914 and was recently reaccredited at the highest level as a comprehensive doctoral degree-granting institution. This recognition illustrates the high academic standards maintained at the University and assures students taking preprofessional courses leading to advanced study in such fields as medicine, dentistry, law, and theology that they are receiving sound preparation for acceptance at other graduate and professional schools. Accreditation also 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.

In addition to the recognized regional accreditations, special accreditation for particular programs has been awarded as follows:

Accreditation Board for Engineering and Technology, Technology Accreditation Commission Accreditation Board for Engineering and Technology, Engineering Accreditation Commission American Assembly of Collegiate Schools of Business American Association of Nurse Anesthetists American Chemical Society American Council on Social Work Education American Dietetic Association American Home Economics Association American Medical 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 for Professional Development of the American Home Economics Association National Academy of Early Childhood Programs 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 Association of Schools of Public Affairs and Administration National Council for Accreditation of Teacher Education National League for Nursing North Central Association of Colleges and Schools Ohio Board of Nursing Ohio State Department of Public Instruction The University also holds membership in the following educational organizations: American Association of Colleges for Teacher Education American Association of Community and Junior Colleges American Association of State Colleges and Universities American Council on Education

American Society for Engineering Education

American Society for Training and Development Association of American Law Schools

Council of Graduate Schools

Council of the North Carolina State Bar

Department of Baccalaureate and Higher Degree Programs (National League for Nursing)

League of Ohio Law Schools

Midwestern Association of Graduate Schools

National Association of Graduate Admission Professionals National University Continuing Education Association

North American Association of Summer Sessions

Ohio College Association

Ohio Council on Continuing Higher Education

- State of New York Court of Appeals
- The School of Law is accredited by: American Bar 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 (†) 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/.

Accountancy Biology Biomedical Engineering\* Bilingual-Multicultural Education **Business Administration** Law/Business Administration Joint Program Business Administration/Law Joint Program Finance International Business Management Marketing Health Services Administration Materials Management Quality Management Chemical Engineering\* Chemistry\* Civil Engineering\* Communication Counseling Classroom Guidance for Teachers Community Counseling Elementary School Counseling Marriage and Family Therapy Secondary School Counseling Counseling Psychology\* Economics Labor and Industrial Relations Educational Administration\* Administrative Specialists Business Management Administration Educational Research Educational Staff Personnel Administration Instructional Services Pupil Personnel Administration School-Community Relations Special (Exceptional Children) Assistant Superintendent Elementary School Administration

Higher Education Administration School Treasurer Secondary School Administration Superintendent Supervisor **Educational Foundations** Computer-Based Education Educational Psychology Historical Foundations Instructional Media and Technology Social/Philosophical Foundations Electrical Engineering\* Elementary Education\* Engineering\* Applied Mathematics<sup>†</sup> English Composition 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 Education Elementary Counseling Marriage and Family Therapy\* Secondary Counseling History\* Home Economics and Family Ecology Child Development Child Life Clothing, Textiles and Interiors Family Development Food Science Management Human Resources

Information Systems

Mathematical Sciences Applied Mathematics\* Computer Science Mathematics Statistics Mechanical Engineering\* Middle School Education Modern Languages Spanish Music Accompanying Composition Education History /Literature Performance Theory Nursing Nursing (RN/MSN) Nutrition/Dietetics Outdoor Education Physical Education Adapted Physical Education Athletic Training for Sports Medicine Exercise Physiology and Adult Fitness 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\* Reading Secondary Education<sup>†</sup> Sociology\* Special Education Speech-Language Pathology and Audiology Audiology Speech Pathology Taxation Law/Taxation Joint Program Technical Education Curriculum/Supervision Guidance Teaching Vocational Home Economics - Child Vocational Home Economics - Family Theatre Arts Arts Administration

### 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 for one of the School of Law's 150 to 165 day-session openings or 65 to 70 evening-session openings may be obtained by calling (330) 972-7334, 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/index.html.

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 in Taxation Juris Doctor/Master in Public Administration

### 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: Accounting

Advertising Anthropology (Interdisciplinary Program) Art Ceramics Drawing Graphic Design Metalsmithing Painting Photography Printmaking Sculpture Studio Art Art History Automated Manufacturing Engineering Technology Biology Animal Physiology Botany Cytotechnology Ecology Medical Technology Microbiology Zoology Business Administration Chemical Engineering Polymer Engineering Specilization Chemistry Civil Engineering Classics Classical Languages Classical Civilization Communication Business and Organizational: Organizational Public Relations Interpersonal and Public: Electronic Media News Computer Engineering Construction Technology (2+3) Cytotechnology Dance Dietetics Economics Labor Economics Electrical Engineering Electronic Engineering Technology Elementary Education Dual Certification Kindergarten Prekindergarten Engineering English Finance Corporate Financial Management Financial Services Geography and Planning Geography/Cartography Geography/Travel and Tourism Geology Engineering Geology Geophysics History

Home Economics and Family Ecology Dietetics Coordinated Program Dietetics Didactic Program Family and Child Development Child Development Child Development: Prekindergarten Certification Child-Life Specialist Family Development Food Science Business Food Science/Product Development Home Economics Education Fashion Merchandising Apparel Track Home Furnishings Track Fiber Arts Track Humanities Interior Design International Business Management Human Resource Management Industrial Accounting Information Systems Management Materials Management Production/Operations Management Marketing Marketing Management Sales Management Mathematical Sciences Applied Mathematics Computer Science Business Systems Mathematics Statistics Statistics Applied Statistics Actuarial Sciences Mechanical Engineering Polymer Engineering Specilization Mechanical Engineering Technology Mechanical Polymer Engineering Medical Technology Modern Languages French German Spanish Music Accompanying History and Literature Jazz Studies Music Education Performance Theory-Composition Natural Sciences Combined B.S./M.D. Nursina Philosophy Physical Education and Health Education Physical Education Health Education Dance Education Athletic Training for Sports Medicine

Physics

Political Science Criminal Justice Government Service International Service Pre-Law Public Policy Management Psychology Secondary Education (all fields) Social Sciences Social Work Sociology Corrections Law Enforcement Special Education Developmentally Handicapped Multihandicapped Severe Behavior Handicapped Specific Learning Disabled Specific Learning Disabled Specific Learning Disabled Audiology Surveying and Mapping Technical Education 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 2+2 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 2+2 within the College of Education's Technical Education baccalaureate degree.

American Sign Language Interpreting and Transliterating Technology Arts Automated Manufacturing Engineering Technology (2+2) **Business Management Technology** Accounting General Data Administration Small Business Management Commercial Art (Inactive) Commercial Photography (Inactive) Community Services Technology Alcohol Gerontology Social Services Volunteer Programming Criminal Justice Technology (2+2) Advanced Officer Training Corrections Emphasis Security Administration Social Work Emphasis Computer Programming Technology (2+2) Drafting and Computer Drafting Technology Educational Technology Child Development Elementary Aide (Inactive) Library Technician (Inactive) Electronic Service Technology (Wayne) Electromechanical Service Technology Electronic Engineering Technology (2+2) Fire Protection Technology Histologic Technology Hospitality Management (2+2) Culinary Arts Hotel/Motel Management Marketing and Sales Restaurant Management Individualized Study Legal Assisting Technology Manufacturing Engineering Technology (2+2) Computer Aided Manufacturing Industrial Supervision Marketing and Sales Technology (2+2) Advertising Computer Sales (Inactive) Fashion

Marketing and Sales Technology (2+2), cont. Retailing Sales Mechanical Engineering Technology (2+2) Medical Assisting Technology Office Administration Administrative Assistant International Legal (Inactive) Medical Secretary Office Information Management(Inactive) Word Processing(Inactive) Office Services Technology Polymer Technology Radiologic Technology Real Estate (Inactive) Respiratory Therapy Technology Surgical Assisting Technology Surgeon's Assistant (Inactive) Surgical Technologist Surveying and Construction Engineering (2+2) Technology Construction Surveying Technical Study - Automotive Technology Transportation Airline/Travel Industry

Wayne College Programs

Associate of Arts Associate of Science Associate of Technical Studies Associate of Applied Business Business Management Technology Accounting Data Management General Business Sales and Services Office Administration Executive Assistant Legal Administrative Assistant Health Care Administrative Assistant Associate of Applied Science Environmental Health and Safety Technology Computer Service and Network Technology Social Services Technology (2+2)

### **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.

Aging Services Alcohol Support Services Applied Politics Canadian Studies Cartographic Specialization Chemical Dependency Chemical Dependency Education and Prevention Child-Care Worker Commercial Photography (Inactive) **Computer Physics** Computer Science Computer Software for Business Criminal Justice Technology Criminal Justice/Security Emphasis Digital Electronics and Microprocessors Drafting/Computer Drafting Technology Entrepreneurship **Environmental Studies** Fire Protection Technology Gerontology Hospitality Management: Culinary Arts Hospitality Management: Hotel/Motel Hospitality Management: Restaurant Management Interior Design Latin American Studies Legal Assisting Library Studies Linguistic Studies Manual Communication Marketing and Sales Technology Marketing and Sales Technology: Advertising

Network Technology Office Administration: Administrative Assistant Office Administration: Office Information Management Office Administration: Word Processing Pan-African Studies Peace Studies Planning with an emphasis on City or **Regional Resource Studies** Professional Communication Professional Selling Programming Skills Enrichment Real Estate Retail Marketing Small Business Management **Bussian Area Studies** Supervision and Management Surgeon's Assistant (inactive) Surgical Technologist Teaching English as a Second Language Transportation Studies Travel and Tourism Volunteer Program Management Women's Studies

#### Wayne College Certificate Programs

Gerontological Social Services Information Processing Specilist Medical Billing Medical Transcription Network Management Specialist Office Software Specilist 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, decision-making 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, England, France, Germany, Israel, Korea, Mexico, Puerto Rico, Russia, and Singapore. Programs are open to all students, regardless of major, language training, or financial means. A program in The Netherlands is also available for Business majors. Study Abroad may be undertaken for an academic year or a semester, depending on the country.

Short-term study, work, travel abroad programs are also available. Among these programs are: Tropical Biology in Jamaica (Biology), Maya Study in Belize

(Curricular and Instructional Studies), French Studies in Faverges, France (Modern Languages), and International Nursing in Oslo, Norway (Nursing). Contact the sponsoring department or the Office of International Programs at (330) 972-6349, The Polsky Building, Room 483.

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 Fulbright, 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.

More information on Study Abroad, international scholarships, internships, or international identity cards is available in the Office of International Programs, (330) 972-6349, The Polsky Building, Room 483.

### 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 eight technical programs as well as the first two years of most 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 and in Office Administration; Associate of Applied Science in Environmental Health and Safety Technology, Computer Service and Network Technology and in 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. The University offers special institutes, workshops, and courses to professional groups through the academic departments, through continuing education, and through Developmental Programs.

#### The University also operates educational centers at the following locations:

#### **Coventry North**

The University of Akron Center-Coventry North opened in January 1995 to service the communities of southern Summit and northern Stark counties. The Center offers both credit and noncredit coursework during each fall, spring, and summer term.

#### **Brunswick High School**

The University of Akron Center-Brunswick High School opened in August 1996 to service the northern Medina County area. The Center offers both day and evening credit courses during the fall and spring terms.

#### Nordonia High School

The University of Akron Center-Nordonia High School opened in June 1997 providing service to the residents of northern Summit County and southern Cuyahoga County. Class offerings feature graduate education and undergraduate coursework during each fall, spring, and summer term.

The Centers also provide area high school students with access to state-funded Post -Secondary Enrollment Program, which allows eligible students to begin college work while still in high school.

### **OFFICE OF MINORITY AFFAIRS**

The mission of the Office of Minority Affairs at The University of Akron, an advocate for equity and social justice, is to ensure that minority faculty, staff and students achieve their fullest potential in an affirming environment which supports access, retention, and successful completion of their goals, characterized by extensive, student-focused collaboration of all segments of the community, with an emphasis on preparing students to live and excel in a global environment. Units within the Office of Minority Affairs include: The Office of the Associate Provost and Special Assistant to the President for Minority Affairs, Minority Access and Retention and the Black Culture and Research Center. As an integral part of the academic mission of the University of Akron, the Office of Minority Affairs 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, and supports and nurtures in its students and faculty, intellectual growth and openness to a range of ideas and human possibilities;
- Instill in its 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 Minority Affairs 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 minority 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 Minority Affairs

The Office of the Associate Provost and Special Assistant to the President for Minority Affairs serves as the central administrative unit for the Office of Minority Affairs. This office reports directly to the Senior Vice President and Provost and to the President, and has overall responsibility and supervision of the Office of Minority Affairs. This includes: setting policy for the various units; creating programs to enhance success of minority 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; public relations and publications; and scholarship opportunities. The Office is located in Buchtel Hall, Suite 202, (330) 972-7658.

#### **Minority Access and Retention**

The primary purpose of this office is to provide support and assistance for precollege and recruitment programs while at the same time establishing and implementing programs and services that will aid in increasing retention and graduation rates for minority students at The University of Akron. This office serves to assist students with the adjustment to university life by encouraging them to achieve their personal, academic, and career goals by utilizing campus resources, establishing effective strategies for success through active participation in the university community and the establishment of an IRISE Plan that encourages individual responsibility and involvement. In addition, this office works closely with the university community in providing direction and support through collaboration and cooperation for activities that promote access, recruitment, and retention of minority students at The University of Akron.

The following activities and services are offered through this office.

**Extended Minority Orientation Program** provides students with an opportunity to develop individual plans that will assist them in achieving their educational, personal, and career goals. Furthermore, this program serves to familiarize students with campus resources and supports that will assist them in being successful.

The **IRISE Plan** (Individual Responsibility and Involvement in Strategies for Education) is designed by the student and monitored by a Minority Access and Retention staff member. The IRISE plan assists students in developing goals and time lines that will assist them in their achievement of academic, career and personal success.

The **Peer Counseling Program** allows first year and second year minority students to have one on one sessions with upper-class students to provide information and strategies for being successful at the University of Akron in an environment that is comfortable and welcoming. This program also offers workshops and study sessions to supplement the academic, social, and personal needs of students.

The **Scholars Program** is designed for those minority students maintaining at least a 3.0 or above grade point average. This program offers students the opportunity to become involved in various leadership programs and activities on campus. In addition, students can take advantage of many special opportunities that are available including scholarship and financial aid programs; nominations for national leadership awards; participation in programs that promote graduate and professional school opportunities; internships and co-op programs; and the development of a career marketing plan. Additionally, information is provided about participating in study abroad programs.

The **PASSAGE** (Preparing Akron Students for Success, Achievement and Great Expectations) **Program** is designed to assist freshmen with the transition from high school to college through the development of academic, personal, and social skills necessary for success. This program promotes student development and involvement in all levels of the campus community. The program encourages participation in leadership activities and programs. Although the program is voluntary, in order to participate, freshmen students must commit to participate in specific activities and support services.

The **Transitions Program** is a collaborative effort with the degree-granting colleges at the University of Akron. This program serves to assist students in University College to make the transition to their academic college. This program is not only designed to ensure that students are prepared for the transition to their degree-granting college, but also to assist the colleges in developing strategies that will increase the persistence and graduation of minority students. Furthermore, the program is designed to prepare students for the transition from college to the world of work or graduate and professional school.

**Hispanic Outreach Initiatives** is designed to assist the University of Akron with access, recruitment and retention programs and services that will increase the participation of Hispanic students at the University of Akron.

Other services offered include:

- Individual and group appointments for academic advising and counseling are available for students.
- Workshops on beginning computer concepts, academic transitions, financial aid, career information, and personal and social development is available to students.
- Referrals to campus resources such as tutorial services, financial aid, counseling and testing, and academic assistance is an integral part of encouraging students to utilize campus resources.
- Provide information on scholarships, financial aid, leadership opportunities, graduate and professional schools programs, and other special opportunities are made available to students.
- Retention services involve the monitoring of midterm grades and progress, and workshops on retention strategies including study sessions for difficult courses.

The Office of Minority Access and Retention is located in the Buckingham Building, Room 113 A. For more information, please contact the office at (330) 972-6769.

#### Black Culture and Research Center

The primary focus of the Black Culture and Research Center is to provide opportunities to appreciate, understand, celebrate, and more importantly, transmit cultural diversity to the campus and community. The infusion of the philosophy of "Legacy, Leadership and Excellence" forms the basis for a Just Community. It is through understanding our past, preparing leaders for the future and embracing excellence in all that we do, that central theme of our student focused agenda is achieved. Services offered include a variety of lectures, programs and activities which promote student development. The center also is responsible for creating a yearly calendar of events and works with various academic and other departments to promote diversity.

In addition, the Gallery of Akron's Black History and Culture is housed in the Buckingham Center, adjacent to the offices of the Black Culture and Research Center.

The Black Culture and Research Center is located in the Buckingham Building Room 101. For more information, please contact the center at (330) 972-7030.

### THE UNIVERSITY OF AKRON SERVICE CONSORTIUM (UASC) Noncredit Continuing Education

The University of Akron Service Consortium (UASC) provides a wide range of educational, research, and technical services that enhance the effectiveness and quality of life-long learning. In addition, UASC provides services that require the special expertise of the faculty and staff to better serve the economic and social development of Northern 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 composed 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.

UASC is the liaison between external constituencies in search of services and technical expertise available through the University and those academic and professional units and individuals who can best supply those needs. The primary goals of UASC are to:

1) Provide continuing and professional education.

- 2) Participate actively in technology transfer.
- Share in the significant discoveries of pure and applied scientific research conducted by University faculty.
- 4) Support the development of Ohio businesses.
- 5) More efficiently use the The University of Akron's resources to meet important social and economic needs.
- 6) Facilitate certification of health care and human services professionals.
- Enhance articulation between the University and area primary and secondary schools.

UASC is a service unit administered by the Associate Provost, Academic Affairs and Administrative Operations.

The Director of Central UASC coordinates UASC Centers' services.

Current UASC Centers and their directors are:

Akron Polymer Training Center Polymer Science and Polymer Training Nancy Clem, Director

Center for Employee Development and Training Community and Technical College Eloise Lafferty, Director

Center for Organizational Development College of Business Administration Dr. Jonathon Rakich, Director

College of Fine and Applied Arts Melissa Paul, Director

Health-Related Continuing Education M. Larry Schmith, Director

### 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 170 acres and includes 77 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 Center is an instructional classroom and laboratory facility for Polymer Engineering and Engineering and Science Technology Polymer Science classes.

Alumni Association Center. This recently remodeled building, north of East Buchtel Avenue at Fir Hill, houses the Office of Alumni Relations.

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, the recently completed \$2 million biology research facility, and the science and engineering holdings of University Libraries.

Ayer Hall. Named for the first dean of the College of Engineering, Frederic E. Ayer, Ayer Hall provides classrooms and offices for the mathematics and physics departments.

**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, and the academic computer testing facility, as well as the University's Network Services and the Electronic Systems operation. **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.

**Computer Store.** Just west of the Gardner Student Center, the Computer Store is operated by Information Services.

**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 corner 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 School of Art facilities. 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 nonacademic 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, the Gardner Theatre, a cafeteria, and other dining facilities.

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.

**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, laboratory space for the School of Communication, and departmental space for the schools of Theatre Arts and Music. In addition to providing more than 40 student practice rooms, the complex houses radio and television studios, WZIP-FM, 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.

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 is being remodeled for the School of Communication, WZIP Radio, and a proposed distance learning facility. It also houses the University Theatre.

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 interim space for School of Communication faculty (during the Kolbe Hall Construction Project).

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 gymnastium, 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 anthletics batting cage, the intramurals sports office, and classrooms.

**North Hall.** Located on South Forge Street, this building houses, on a temporary basis, supplemental service space for the campus police department.

**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, General Studies, History, Modern Languages, Political Science, Philosophy, Sociology, the Ray C. Bliss Institute of Applied Politics, and the English Language Institute. The complex is at the corner of Buchtel Common and South Union Street.

**100 Lincoln Street Building.** This building houses the Purchasing Department and Network Services, and Telecommunications Department offices, as well as the office of the University Architect and Senior Director of Facilities Planning, and the Office of the Director of Space Utilization.

143 Union Street Building. This building provides temporary administrative office space for the University treasurer, budget director, the payroll department, and Information Services' network services group.

**Olson Research Center.** This remodeled warehouse on Forge Street houses 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 Center for Urban Studies, the School of Social Work, the University of Akron Service Consortium office, the Office of International Programs, the Graduate Dean's Office, the Department of Research Services and Sponsored Programs, and the Institute for Policy Studies. A fast-food service facility and a campus bookstore are in operation on the High Street level (third floor).

**Polymer Science Building.** 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 Rubber Division of the American Chemical Society. The facility features a 200-seat lecture hall, offices, classrooms, and research laboratories for the Institute and Department of Polymer Science.

**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 the office of the president of the Faculty Senate, Civil Engineering offices, The Construction Technology program, and classroom space. Schrank Hall South provides facilities for the School of Home Economics and Family Ecology, the Community and Technical College's Engineering and Science Technology Division, and the Army and Air Force ROTC.

**Simmons Hall.** Named for Hezzleton Simmons, University president from 1933 to 1951, this hall houses the University Counseling and Testing Center and the Department of Psychology. The Institute for Life-Span Development and Gerontology occupies a portion of the building. A student interested in employment counseling and assistance will find the Placement Services office in this facility.

Spicer Hall. This major student services building houses the Registrar's Office, Academic Advisement Center, the Office of Student Financial Aid, University College, the Office of Services for Students with Disabilities, 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, the Loans, Receivables Office.

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.

**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 and provides a lecture room that seats 245, general classrooms, a handicrafts room, a teaching demonstration classroom, a microteaching laboratory, educational media lab, and the Student Teaching Office.

### 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 and boats are available for fieldwork.

The **Department of Chemistry** is located in Knight Chemical Laboratories. The department offers outstanding instrumentation, such as nuclear magnetic resonance spectrometers, research-grade gas chromatographs, infrared and ultravio-let 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 Classics** 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 authoring 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 **Department of Economics** is housed on the second floor of Olin Hall in a modern office facility with space for faculty and graduate assistants. The Emile Grunberg Memorial Reading Room offers an intimate setting for one-on-one counseling for faculty and students as well as offering the collection of the past great distinguished professor. Computing is very important to the study of economics. Students of economics have a shared computer facility containing 10 Gateway 2000 machines running both DOS and Windows as well as a private computer lab within the department. A variety of software programs including economic tutorials, WordPerfect, SAS/MVS, SAS/VM and SAS/PC as well as laser printing services are available. Network access allows students to search for books on Ohio Link, submit jobs remotely to the University mainframe, or search the world via Internet for the latest economic information. The department maintains an active Gopher and World Wide Web access to economic

resources worldwide. The proximity of the labs to the faculty encourages the type of interaction that will enhance students' learning.

The **Department of English** maintains a Communication Center, where English students may create and print papers, do desktop publishing, and gain telecommunication access through the ZIPnet and Internet. A department faculty member edits the *Faulkner Journal*. The Thackaberry Room, located in the department, is a reference library for faculty and graduate students. It holds bibliographies, indexes, and reference works relevant to all specialties taught in the department. Graduate seminars are held in the department's own seminar room near faculty offices.

The **Department of Geography and Planning** houses laboratories for cartographic/GIS instruction, research and production. Equipment consists of computers and peripheral devices for digitizing, scanning, printing and plotting. A darkroom with a process film camera continues to be maintained. The department also houses a varied research collection of maps, aerial photos and periodicals.

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 Mathematical Sciences** is located on the upper floors of Ayer Hall. Students of mathematics, statistics, 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 Banyan VINES 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 PCs themselves have a Windows 95 environment. NSF TCP/IP has been installed and access is provided to the Internet via ftp, telnet, MOSAIC, and Netscape. Software available includes Maple, ISETL, and MATLAB for mathematics; Turbo C++, Visual C++, Macro Assembler, Visual BASIC and Turbo Pascal for computer science; and Word Perfect, Microsoft Works for more general use.

Another open laboratory is mainly devoted to a UNIX client/server environment. There are ten SUN SparcStations (Solaris 2.3/Openwindows) which support eight X-terminals. These devices are used for many of the upper-level computer science courses. They are on a separate local ethernet network supported by a SUN Sparcserver 20. They also support MOSAIC and Netscape. Languages available include Lisp, FORTRAN, Pascal, two versions of C and C++, and Perl.

The campus has a backbone network to which each of the local area networks is connected. Also on the backbone are a DecStation 5000 running ULTRIX, an IBM 4381, Model T-92, running VM/ESA, and an IBM 9672, Model R-41, running MVS/ESA. All of these machines are available from the department via the local area networks and also via dumb terminals located in parts of the two open computer labs. Access to SAS and SPSS for statistical processing, to Model 204, SQL/DS and DB/2 for database applications, and to a variety of programming languages, editors, and network services is provided to students and faculty by these machines.

Two undergraduate statistical laboratories are also supported by the department. Minitab is available in these laboratories on either Macintosh or Intel-based computers. These laboratories are used for statistics courses. Plans for the future include networking these labs.

Three special graduate/research laboratories are also part of the Mathematical Sciences 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 Banyan VINES network and the SUN network. The Center for Statistical Consulting provides graduate statistics students with a work experience in which they assist others in the solution of a wide variety of statistical problems. The Center is equipped with a Macintosh computer with Minitab, JMP, and SYSTAT statistical software, as well as a connection to VM for access to SAS and SPSS mainframe computing.

The campus is on both BITNET and the Internet. E-mail is available campus-wide. 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.uakron.edu/mathsci.html.* Various web browsers are used (as indicated above). Remote log-ins from the University are permitted to those who have accounts elsewhere. For example, many faculty members have accounts on the Cray super computer in Columbus, OH.

Dial-in access to all facilities, except the Banyan network, is available. Students are encouraged to work at the location that is most convenient to them. Any communication software using kermit protocols can be used. Recently, ppp access was added.

With the variety of equipment, operating systems, languages and software, the Department of Mathematical Sciences 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 rapidly 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 of Mathematical Sciences an enjoyable place to learn and gain practical experience.

A most important resource of the **Department of Modern Languages** is the 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.

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 web site.

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 Institute for Policy Studies supervises a computer-assisted telephone interviewing laboratory available to the campus research community. The laboratory consists of 24 IBM PS/2 microcomputers connected via a network to a variety of system servers. Each interviewer station is acoustically insulated from other stations and has specialized telephone and automatic dialing equipment. The survey facility is used for grant and contract research covering national, state, and local studies. When not required for survey projects, the computer network is used for a variety of classroom exercises and student research projects. Another 25 stations are available for faculty and graduate student support.

The **Department of Psychology** owns over 50 microcomputers that are available to faculty and students. Also available are research areas for the study of small-group behavior, and a psychology clinic complete with videotape capabilities for the study of counseling processes and outcomes. Two dedicated research labs contain Gateway 2000 386 and Pentium PCs. A word processing lab contains IBM compatible computers and HP LaserJet printers. A mainframe access lab for exclusive use by the psychology department has connections to the mainframe via PCs and terminals. Supported are major statistical packages–SAS, SPSS, and LISREL–which are accessed through VM-CMS. PC versions of field research. A full-time research programme 'analyst provides the hardware and software support for the department and writes custom software for computerized experimental control, stimulus display, and data collection. WordPerfect

for word processing and Lotus Freelance Graphics for chart and graphic production are used throughout the department.

The **Department of Sociology** facilities include research laboratories used for funded research projects and a complete microcomputer laboratory for all graduate students. The department shares a computer facility for all students in Olin Hall which includes microcomputers and terminals directly linked to the University's mainframe computer. The anthropology laboratories contain hominid fossil casts, archaeological collections, and a variety of equipment used in archaeological field research projects.

#### **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 Division has many extensive laboratory facilities in The Polsky Building. The Computer Programming area has a cluster of well-equipped personal computer labs, plus connections to the University's mainframe computer. 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 food service management and culinary arts.

The Engineering and Science Technology Division 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 30 Hewlett Packard Vectra QS/16 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 Division is located in The Polsky Building, where laboratories are dedicated to Medical Assisting, Respiratory Care, Surgical Technology, and Histologic Technology.

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

The Public Service Technology Division 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.

### **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 of 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 the American Assembly of Collegiate School of Business, the most prestigious accrediting agency for business schools.

Tiered, amphitheater style classrooms permit close contact between students and professors. The Milton and Henr'etta Kushkin Computer Laboratory provides three computer classrooms, each equipped with nearly 40 personal computers and a

homework laboratory for students with over 70 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 provide the college with five small 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 capabilities.

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

The CBA Satellite Office of Placement Services is located in a suite of eight offices on the second floor. The suite includes a reception area, resource library, and interview rooms. The Placement Center's dedicated staff of career counselors provides assistance in resume preparation, development of interviewing skills, job-search strategies, on-campus 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 eighteen 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, laboratories, and other facilities of the College of Education are located in Zook Hali, 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 and doctoral programs in Higher Education.

The **Department of Physical and Health Education** prepares students for careers in teaching, athletic training for sports medicine, 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 both the areas of secondary education and elementary education. Instruction in secondary education prepares students for teaching careers at the middle, junior, and senior high school levels in various academic and vocational subject fields. Initial teacher preparation programs are available at the undergraduate, postbaccalaure-ate, and master's degree levels. 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. Instruction in elementary education uses those strategies appropriate for the Pre K-8 child in the teaching-learning situation as the basis for its broad offering of courses in the disciplines of language literacy, mathematics, social studies, science, and art. Emphasis is given to higher-level thinking skills and the integrat-

17

ed curriculum. A mathematics lab and art lab facilitate the instruction of preservice teachers. The University Center for Child Development, directed by department faculty, provides day care for children while serving as an experiential learning site for teacher education students.

The **Department of Counseling and Special Education** incorporates three divisions: Counseling and School Psychology, both graduate programs, and Special Education, which prepares undergraduates as teachers for children with special needs and graduate students to be master teachers and supervisors of special education programs. The department operates a multidisciplinary clinic, the Clinic for Child Study and Family Therapy.

### **College of Engineering**

The **College of Engineering** provides educational opportunities for students at both the undergraduate and graduate levels who wish to pursue careers in engineering.

The College has undergraduate programs in Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Engineering, Engineering, and Mechanical Polymer Engineering. The programs in Chemical, Civil, Electrical, and Mechanical are currently accredited by the Accrediting Board for Engineering and Technology and accreditation for Computer Engineering and Mechanical Polymer Engineering is expected in 2002. The Mechanical Polymer Engineering program is jointly staffed by faculty from the Mechanical Engineering Department in the College of Engineering and the Polymer Engineering Department in the College of Engineering and the Polymer Engineering.

The Construction Technology Program provides three years of study beyond the first two years in the Community and Technical College and offers a Bachelor of Construction Technology degree.

The College has one of the oldest and most successful Cooperative Education programs in engineering in the United States. Currently, over 80% of eligible undergraduates participate in the Cooperative Education program.

The College offers the Master of Science degree in Chemical, Civil, Electrical, and Mechanical Engineering; and the Master of Science in Engineering with specializations in Biomedical Engineering, Polymer Engineering, and Engineering Management.

The Doctor of Philosophy degree in Engineering is offered in the interdisciplinary fields of Environmental Engineering, Mechanics, Systems Engineering, Materials Science, Transport Processes, Biomedical Engineering, and Polymer Engineering. There is a coordinated Doctor of Philosophy program in Engineering with Youngstown State University and a joint MD/Doctoral program in Engineering with the Northeast Ohio Universities College of Medicine.

The College has a strong, active, and dedicated faculty. The College's undergraduate programs are visible and highly ranked. Graduates of these programs regularly achieve the highest scores in the State of Ohio on the Fundamentals of Engineering examination, the first step in professional licensure. Student teams that participate in national competitions consistently are in the top 10% of the competitors. The College maintains a centralized engineering computer and network services facility and a centralized machine shop that provides fabrication support for undergraduate and graduate projects. Several nationally visible research centers are currently active. These include the Computational Mechanics Research Center, the Process 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. The Engineering Advisory Council, with both industrial and public membership, works actively on behalf of the College.

The Department of Biomedical Engineering has nine major laboratories for instructional and research use. The biomechanics laboratory is equipped with materials testing equipment and finite element analysis capabilities. The image science laboratory has an instrumentation for production and analysis of various imaging devices. The image processing laboratory is built around 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, surface temperature devices, and blood pressure and flow monitoring equipment. The biomedical modeling and control laboratory focuses on the interplay between modeling, system identification, control theory, physiology and neurobiology for physiological systems analysis and control. The

laboratory has a variety of computer hardware and software and computer controlled IVAC volumetric infusion pumps. The vascular dynamics laboratory provides facilities to analyze blood flow using laser doppler anemometry and doppler ultrasound techniques. The motion analysis laboratory studies all aspects of human movement (body motion, joint forces and moments, and muscle activity). The laboratory is equipped with a Vicon Motion Analysis System, two AMTI force plates, a MA-100 EMG 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 interferometry.

The **Department of Chemical Engineering** possesses a variety of modern research equipment. The Particle and Catalyst Characterization Laboratory has a Quantasorb surface area analyzer, a flow BET unit, a temperature programmed chemisorption and desorption unit, and a mercury intrusion porosimeter.

The Process Research and Development laboratories have nine micropilot plants for diverse chemical process applications, element analyzer, sulfur analyzer, automated chlorine analyzer, coulter particle counter, ash fusion analyzer, TGA/DSC, oxygen bomb calorimeter, Tilt-A-Mix reactor, FTIR, CDS Automated Micropilot Plant, ICP, and four fermenter systems.

The Chemical Reaction Engineering laboratories have 14 high pressure reactor systems that are currently being used for various chemical reaction studies, including oxygenated fuels, polymerization, coal liquefaction, supercritical reactions, etc. An in-situ IR-based reactor is controlled by an on-line computer and is very efficient for mechanism studies. A slurry-reactor, micropilot plant operates in a three-phase catalytic mode and is ideal for carrying out various fundamental and engineering studies on three-phase catalytic reactions. A gas chromatograph/mass spectrometer is available for product stream analysis.

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, and an IBM PC-based data acquisition system.

The focal point of the undergraduate laboratories is the Corning Glassplant 6-inch and 12-inch distillation unit, which includes a 12-plate bubble-cap column and an 8-foct high packed-bed column. The unit is 24 feet high. There is also a pilot plant with a 5-gallon agitated reactor and a packed-column stripping facility. The laboratories also include a fluid flow measurement experiment and heat transfer study systems.

The Department of Chemical Engineering has an undergraduate computer and ASPEN laboratory which also provides students self-study areas as well as excellent on-line computer access.

The **Department of Civil Engineering** 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, 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. Models of bridges and dams can be studied; the wave tank enables a student to study the effect of waves on lake shore erosion, harbors, breakwaters, and off-shore structures; the mobile bed tank is used to demonstrate erosion and sediment deposition patterns around bridges, piers, and culvert and storm drain outlets.

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 the opportunity to observe experimental verifications of earlier training on the behavior of structural members subjected to tension, compression, bending, and torsion is accomplished with the use of three universal testing machines, an MTS closed-loop system which has a loading capacity to 100,00 pounds, and two Instron dynamic testing machines which can be used in either uniaxial or torsional loading. The **Department of Electrical Engineering** maintains circuits, analog and digital electronics, control, computer, energy conversion, microprocessor interfacing, power electronics and electromagnetic/microwave laboratories. 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** maintains laboratories in the Auburn Science and Engineering Center for undergraduate instruction and graduate instruction and research. These include:

Thermal and Fluid Science Laboratory with internal combustion engines, a supersonic wind tunnel, and a subsonic wind tunnel.

Heat Transfer Laboratory with thermal conductivity, radiation and temperature measurement systems, a gas laser and a spectrum of heat exchangers.

Mechanical Measurements Laboratory with a complete complement of transducers, calibration equipment and standards, signal conditioners, analog recording devices and microprocessor-based digital data acquisition systems.

Materials Testing Laboratory with 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.

Experimental Mechanics Laboratory with photoelastic strain measuring equipment and associated facilities, coupled with a complete range of strain gage instrumentation for both static and dynamic measurements.

Mechanical Design Laboratory with several major software packages for computer-aided design connected to the University's engineering computer graphics facility.

System Dynamics and Controls Laboratory composed of several microprocessors, analog computers, and digital control, as well as equipment for process control and robotics.

Vibration and Acoustics Laboratory with electromechanical shakers, sound pressure level instrumentation, and frequency spectrum analyzers for modal analysis.

Metallography and Failure Analysis Laboratory with a complete set of metallographic instrumentation for microstructural analysis of both conventional and advanced engineering materials, and electron microscopes for analysis of failure.

### **College of Fine and Applied Arts**

The mission of the School of Art is to provide a high-quality undergraduate professional education in the visual arts. Its mission is also to define and encourage excellence within a diverse student body and to offer expertise and resources as artists to the community. The School of Art's studios and classrooms are housed in a contemporary, 67,000 square-foot building, which features photographic studios and darkrooms for black-and-white and color; a metalsmithing/jewelry laboratory offering casting, fabricating, and anodizing equipment; a printmaking workshop; a ceramics studio equipped for throwing and handbuilding; and a sculpture shop equipped for construction with wood, metal, clay, plaster, stone, as well as foundry work. The graphic design facilities include technology current in the design industry, including Macintosh-based computer systems, typographic, photostat, pre-press materials, on-site color copying, and access to photo studios and darkrooms. The computer imaging area provides visual computer experience using Macintosh computers, threedimensional modeling, animation, and advanced paint systems in two complete lab settings. The School provides students with a solid background in art history supported by a collection of more than 70,000 slides. The University Galleries, including the Emily Davis Gallery, Bierce Library Gallery, and the Guzzetta Hall Williams Atrium Gallery, display staff-curated national and regional exhibitions as well as student and faculty work, host traveling exhibitions, and maintain a program of catalog publications.

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 a Macintosh computer laboratory 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 department houses the Audiology and Speech Center, which functions as a practicum training arm as well as a service agency for persons in the Akron community who have speech, language, or hearing problems.

The School of Dance, Theatre, and Arts Administration is located in the Ballet Center. The activities in the building include the undergraduate dance programs for the B.A. and B.F.A. degrees, Musical Theatre Degree-B.F.A. in Dance, K-12 Certification Dance courses, dance minor, the Dance Institute for students ages 8 to 18, continuing education for adults, and the Ohio Ballet. There are five studios, each with mirrors, barres, sprung marley floors, and pianos. There is also 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 University Theatre (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 Bachelor of Arts, Bachelor of Arts in Theatre Arts, Bachelor of Arts option in Musical Theatre, and 7-12 Certification in drama/theatre. 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 University Theatre, complete with support facilities. This conventional proscenium theatre is the home of theatre productions as is the multipurpose E.J. Thomas Performing Arts Hall. Student productions are performed in Studio 28, Sandefur Theatre, and Kolbe Theatre.

The **School of Home Economics and Family Ecology** has food and nutrition laboratories, textile conservation and clothing laboratories, an interior design and drafting laboratory, and a multipurpose lecture/laboratory area. These specially equipped areas are designed for demonstration and study in the areas of home management, equipment, home computers, consumer education, housing, interiors, home furnishings, and community involvement. Additionally, the school maintains an executive conference room, and a graduate and teaching assistants' office. In cooperation with the College of Education, the school also operates and maintains a completely equipped nursery school facility for the study of child development and for 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 multitrack recording and sound synthesis equipment for music composition. Classrooms, 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**, housed in Mary Gladwin Hall, provides professional nursing education at the undergraduate and graduate levels. The college is approved by the Ohio Board of Nursing, and all programs are fully accredited by the National League for Nursing. The college has a Student Affairs Office which provides academic advising services to prospective students. The college houses a state-of-the-art Learning Resource Center, including a computer laboratory and the Center for Nursing, which is used by faculty and students for practice and research.

The undergraduate nursing curriculum is a six-semester clinical sequence after completion of University and college prerequisite courses. The undergraduate program offers the basic B.S.N. program and sequences for licensed practical nurses and registered nurses who wish to obtain the B.S.N. degree. The graduate program prepares nurses in the areas of education, administration, and/or advanced practice. Areas of specialization include child and adolescent health nursing, adult health nursing, liaison-community mental health nursing, gerontological nursing and nurses from associate degree and diploma programs to obtain a master's degree.

Students at all levels have clinical experience in a variety of settings including hospitals, clinics, rehabilitation agencies, long-term care facilities, community health agencies, mental health agencies, pediatric agencies, and home care settings.

### 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. 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 \$6 million.

The **Department of Polymer Engineering** and **Institute of Polymer Engineering** maintain a broad-based range of processing, structural, and rheological/mechanical characterization facilites. 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 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 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 Northeast Ohio Major Academic and Research Libraries consortium, 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. Its new Media Center supports faculty who want to improve teaching through the use of technology. Audio Visual Services also designs, installs, and maintains technology-enhanced general purpose classrooms, offering permanent in-room projection, sound reinforcement and a sophisticated media retrieval system.

### Information Services

The **Information Services Department** provides communications and computing support for The University of Akron. There are four divisions within the department:

- · Client Services (Computer Center and Carroll Hall)
- Technical Services (Computer Center)
- Telecommunications Services (Lincoln Building)
- Applications Services (Computer Cente.)

The Information Services Help Desk can be reached at (330) 972-6888. Help Desk personnel can answer questions or refer

for more information. The walk-in consulting desk is located in the Computer Center, room 144, and can also be reached by E-mail at consult@uakron.edu. Free seminars, handouts, and dial-in software are available.

There are six general purpose computer labs for students, faculty and staff to use. In addition, there about 130 Windows/DOS computers and 10 Macintosh computers (Computer Center only) in these labs. These computers have personal productivity tools (such as word processing and spreadsheets) and network access. The lab locations are:

- Computer Center, rooms 139, 141 and 146
- Gallucci Hall, room 279
- Bierce Library, room 274A
- Polskys, room 267
- Olin Hall, room 273
- Mary Gladwin Hall, room 306

There are more than 300 dial-in lines for faculty, staff, and students to use with their computers and moderns from home to access UA and Internet networks.

UA's computer network, named UAnet, has about 4,000 computers connected on campus. To use these services, faculty, staff and students should go to the Computer Center at 185 Carroll Street and 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
- · UA Center at Coventry North
- · IBM mainframes and Digital servers

Student information is available using a touch-tone telephone and a PIN number. Services available in this manner include:

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

Computer-Based Education and Testing services provide on-line tutorials, instruction, and testing for UA. The Testing Center is located in Carroll Hall, room 325.

Applications development and support for University systems is provided. Major systems supported include Human Resources, Student Information, Alumni and Financial Aid systems.

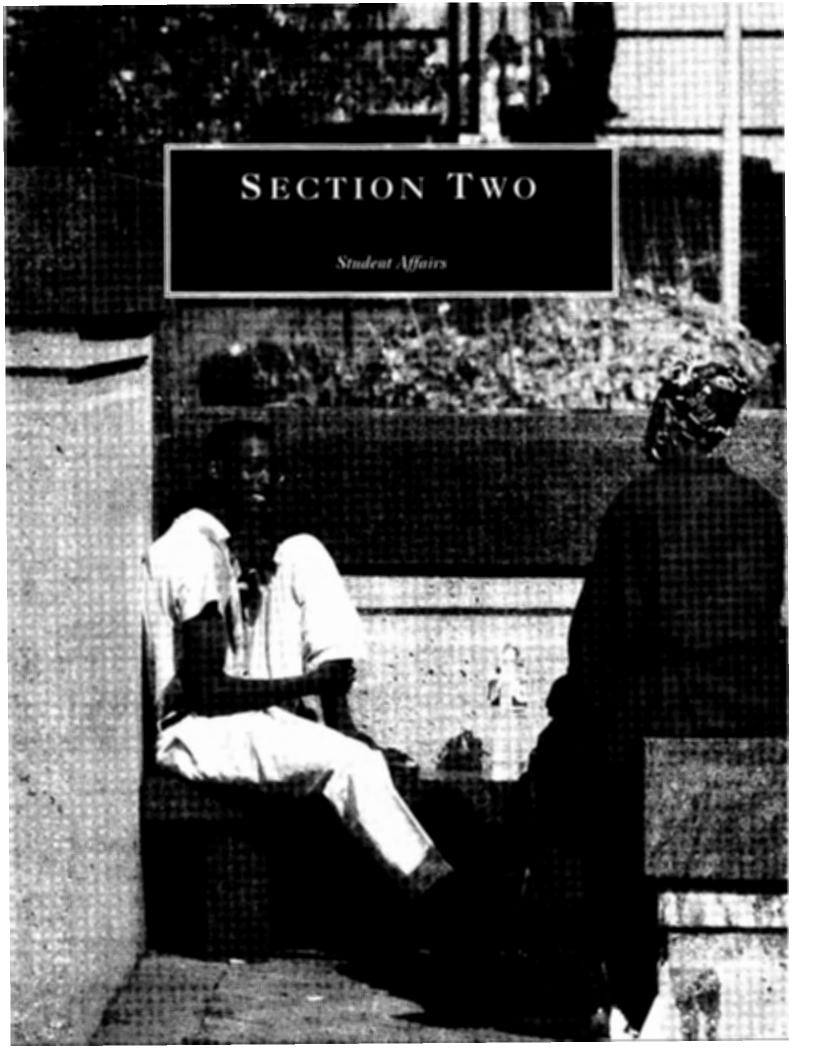
Central computer services include:

- A CMOS-based IBM 9672/R41 CMOS running MVS/ESA for administrative and batch research applications
- An IBM 4381/R14 running VM/ESA for interactive computer language support
- A Digital DECsystem 5000/240 for unix and c programming
- A Digital AlphaServer 1000 for E-mail and web home pages
- A Digital AlphaServer 2100 for ZipLINK, the on-line library catalog
- A Digital DEC 3000/300LX Usenet news server
- An IBM RS6000/390 for graphical, secure information access
- An NCS Opscan 21-75 optical mark sense reader for scanning mark sense forms

Other services provided to the campus by Information Services include:

- · PC purchase information and assistance
- · On-campus hardware and software installation services for departments
- · Computer repair services (on-campus and carry-in)
- Cable Television ZIP-TV
- Telephone and voice mail services
- Security systems
- Cable plant management
- Cable television and network connections to residence hall rooms in Grant, Garson, Gallucci, and the Townhouses
- · Rental of public address systems for campus events

The Information Services Department continues in its quest to bring staff and students the most up-to-the-minute advances in computer applications, research, knowledge and training.



## **Student Affairs**

Charged with the responsibility of helping our diverse student body to maximize the total benefit that college offers them, the Division of 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 **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. They participate in STEP for two years, then move into the University's Upward Bound Program, which assists them through high school. Program graduates are guaranteed admission to the University and granted scholarship assistance, provided they successfully complete both programs. Selected students are called "Firestone Fellows." This program serves students who attend Akron Public Schools.

The **Educational Talent Search (ETS) Program**, a is a federally-funded TRIO program which provides services to prepare participants for enrollment or reenrollment in postsecondary educational programs.

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- vaboratory courses in Polymer Science and Computer Science. Other com

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.

### COUNSELING, TESTING, AND CAREER CENTER

The Counseling, Testing, and Career Center provides a wide range of psychological counseling, therapy, testing, career planning, and outreach and consulting services to the University community. The Center is staffed by psychologists and psychology trainees, and all services are confidential and free to enrolled students. The Center is located in 163 Simmons Hall, (330) 972-7082.

### **Counseling Service**

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

- Personal-emotional counseling deals, within a short-term framework, with feelings of loneliness, inadequacy, guilt, anxiety, and depression; harmful involvement with alcohol and drugs; recovery from acquaintance or stranger rape; interpersonal relationships, especially with the immediate family, intimate relationships, and roommates; personality development, identity, and self-esteem.
- 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 concerns. Brochures are available.

#### **Testing Service**

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

#### **Career Service**

 Career counseling involves discovering one's interests, needs, values, aptitudes, abilities, and goals; relating these to the world of work; exploring appropriate major subjects and career fields. Occupational information is available through reference books and computerized career guidance and information systems.

#### **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 Counseling, Testing and Career Center also cooperates with the Office of Placement Services in jointly providing an extensive range of career development services.

### **CAREER DEVELOPMENT SERVICES**

Through cooperative efforts of the Counseling, Testing, and Career Center and the Office of Placement Services, the following career development services are available to all students.

#### **Major Objectives**

· To provide specialized services for students to help them:

- explore, clarify and assess their interests, values, needs, abilities, and personality characteristics;
- understand broad career areas and specific occupations;
- decide on a career direction and an appropriate educational program;
- develop lifelong decision-making skills.

- To provide services to students who have made a tentative decision regarding their career direction to help them:
  - reassess their interests, aptitudes, needs, educational, and experiential backgrounds as well as their desired life-style to clarify, reevaluate or reinforce their choice;
  - sharpen decision-making skills;
  - apply this knowledge to the realities of the world of work through experiential education;
  - develop lifelong job-seeking skills.

#### Services

- Individual counseling for career and life planning.
- This individualized approach provides a systematic, in-depth exploration of self and the identification of possible career alternatives.
- Interest, aptitude, personality, and values testing for career and life planning.
- A wide range of vocational and psychological tests and inventories are available for self-assessment in individual and group counseling.
- Career and life-planning groups. Groups usually meet for three or four one-hour sessions using the self-assessment career planning approach.
- Computerized systems of interactive guidance and information. These systems are designed specifically to help college students make rational and informed career decisions.
- Computer-based information systems designed to provide access to state and national data regarding occupations, educational institutions, and financial aid.
- Career library. In addition to standard references, general and specific information is available about career opportunities with hundreds of companies, government agencies, and school systems in Ohio and throughout the country.
- Career advisement and consultation. Information and consultation is available about various career fields and their requirements, as well as about job outlooks, salaries, job hunting skills, and University of Akron alumni follow-ups.
- Workshops on interviewing skills, resume writing, and job hunting skills. These are practical how-to sessions that deal with a topic in a clear, concise, informative manner.
- Student Employment.
   Student employment assists students in finding short-term, part-time employment opportunities both on and off campus.
- Experiential Education.
   Cooperative education work assignments provide eligible students with the
  opportunity to apply the theory learned in the classroom, prescreen career choices, develop professional skills and competence, and earn a reasonable income.
- Student Volunteer Programs.
   Student volunteer programs seek to recruit and refer students for volunteer positions with social service and nonprofit agencies in the Akron and Northeast Ohio area.
- · Interviews with employers.

Campus interviews with representatives from business, industry, government, and private organizations are scheduled throughout the year.

- Contacts. Names of people to contact within organizations and addresses and locations for all types of employment are available.
- Current job opportunities.
   Employers regularly notify the Placement Services of current positions available.
- · Computerized job matching.

A computerized system matching jobs to students or alumni registered in the placement service is in operation. This will facilitate information-flow between employers and potential candidates for employment.

You are invited to contact the the Counseling, Testing, and Career Center, Simmons Hall 163, (330) 972-7082; and/or the Office of Placement Services, Simmons Hall 178, (330) 972-7747, to take advantage of any of the services described.

### **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 four food service facilities, meeting rooms, lounges, Gardner Theatre, student organization offices, recreation facilities, the Communication Center, a bank, Ticketmaster/Film Center, and a bookstore.

- 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 & mexican 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 twice per night Tuesday through Sunday and is open to the public.
- The Game Room, located on the lower level of the Gardner Student Center, is
  open seven 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.
- The Communication Center, located in the lobby of Gardner Student Center offers the following services: informational and referral 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 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 Bookstore at The University of Akron is operated as a service of Barnes & Noble Bookstores, Inc. of New York City. Barnes & 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 INTERNATIONAL PROGRAMS

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

- To develop and support international study experiences for The University of Akron students that will aid them in becoming global citizens.
- To establish and maintain contacts with foreign universities and colleges that will encourage student, staff, and faculty international development.
- To encourage international students to study at The University of Akron.
- To aid the integration of international students, scholars, and scientists through the provision of services and activities such as cultural orientation, counseling, immigration and academic advising, and on- and off-campus cultural opportunities.
- To develop, using campus and community resources, activities designed to promote international understanding and an appreciation of cultural diversity through international contact.
- To support the development of departmental, collegiate, and community
  programs and projects that further intercultural awareness and international
  understanding both on and off campus.

For more information, contact:

Office of International Programs Polsky 483 The University of Akron Akron, OH 44325-3101 Phone: (330) 972-6349 FAX: (330) 972-8604 E-mail: abier@uakron.edu

### PLACEMENT SERVICES

The Office of Placement Services has as its primary mission to assist the graduating student's initiative in seeking employment and to assist all students in obtaining part-time employment both on-campus and off-campus. The office combines the University's Placement, Cooperative Education, Student Employment, Job Location & Development, and Volunteer Programs. These programs assist students in preparing for their job search, obtaining pre-professional, experiential education assignments, and entering the job market upon completion of their degree. Additionally, Placement Services is a part of a cooperative effort with the Counseling and Testing Center to provide for the comprehensive career development needs of students. These programs and services are described on the following page under Career Development Service.

#### **Placement Services**

Placement Services for graduating students include on-campus interviews with representatives of businesses, industries, education, branches of the government and 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 advising may be scheduled with placement advisors. A reference library of employer literature is also available. Other services to registrants include direct job referrals and the maintenance and distribution of students' credential files.

#### **Cooperative Education**

These programs combine 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 programs enhance a student's education and career preparation by: integrating classroom theory with on-the-job performance; providing an understanding of work environments and professional requirements; testing career and professional goals; developing confidence, maturity, and skills in human relations; and establishing professional contacts and interests.

Students are typically eligible for work assignments if they are in good academic standing, have completed half of their academic requirements, attend an orientation program, and are accepted by the cooperative education coordinator in their respective fields. Additional standards may be required by some departments or employers. Final hiring decisions are made by the employers.

Students and employers participating in cooperative education are subject to all federal, state, and local labor laws. Additionally, students on work assignment 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 Engineering Education Program is located in Auburn Science and Engineering Center 203, (330)972-7818. The University-wide Cooperative Education Program is in Simmons Hall 178, (330) 972-6722. The College of Business Administration Cooperative Education Program is in CBA 260, (330) 972-7827.

#### Student Employment

Student Employment assists students in finding part-time employment opportunities on 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. The Student Employment Office is located in Simmons Hall 178.

#### 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 Placement Services Center in Simmons Hall, and in the Gardner Student Center.

#### Student Volunteer Programs

Student volunteer programs seek to recruit and refer student 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 Placement Services in Simmons Hall.

### 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.

The Department of Residence Life and Housing, located at 277 Buchtel Avenue (corner of Buchtel and College streets, effective October 1, 1997), supervises and manages nine on-campus residence hall facilities accommodating approximately 1,650 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 will receive a Contract for Housing Accommodations and Food Service which must be returned with the prepayment/deposit (\$150) to reserve a residence hall room. The prepayment/deposit will be refunded to new students for Contract cancellations received before May 15; the prepayment/deposit is forfeited for cancellations received after May 15.

Staff, supervised by the Department of Residence Life and Housing Coordinator, reside in each hall. A professionally trained Residence Hall Life Coordinator is assigned to each building, 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 resident students to guide and direct those having questions about University resources, services and programs. In addition, Residence Hall staff and hall student governance councils sponsor social, cultural, recreational and educational events and activities exclusively for resident students.

Most 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. On a space available basis, single rooms may be available in North Quad residence halls for an additional fee. 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 South Quad residence hall rooms and Sisler-McFawn and Orr halls have cable television and ethernet capability. Each residence hall is equipped with coin-operated washers and dryers. All residence halls have study areas and lounges. Residential students may have automobiles and must purchase and display a University parking permit.

#### Room and Board Rates - 1997-98

Residence hall room and board rates for 1997-98 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 Orr, Gallucci, Ritchie, Sisler-McFawn and Spanton halls. If space is available, freshmen may be assigned to Grant Hall and Townhouses but only after all upperclassmen housing applications are processed.

#### **RITCHIE / SPANTON** ROOM BOARD TOTAL RATES BOARD PLAN RATE PACKAGE 4,250.00 2,710.00 Any 10 meals 1,540.00 19 Meal Plan 1,670.00 4,380.00 2710.00 2710.00 Flex Plan 1,670.00 4,380.00 BROWN STREET / GALLUCCI / SISLER-McFAWN BOARD . ROOM TOTAL BOARD PLAN PACKAGE RATES RATE 2,920.00 1,540.00 4,460.00 Any 10 meals 2,920.00 19 Meal Plan 1,670.00 4,590.00 4,590.00 2,920.00 Flex Plan 1,670.00 **GRANT / TOWNHOUSES / GARSON\*** ROOM BOARD TOTAL RATES BOARD PLAN RATE PACKAGE 2.980.00 1.540.00 4.520.00 Any 10 meals 2.980.00 19 Meal Plan 1,670.00 4,650.00 4,650.00 2.980.00 Flex Plan 1.670.00

 Garson Hall rooms are single occupancy. Please add single room premium fee to rates shown above. (\$375 per semester - \$750 annually)

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, Garson Hall, Orr Hall or Townhouses. The per night charge for vacation housing will be \$10.00.

#### Summer Housing

Residence hall housing is available during summer sessions on a limited basis. As a guide, Summer 1997 room rates are: 5 week session = \$340; 8 week session = \$550; 10 week session = \$690. Summer 1998 room rates will be determined by April 1, 1998. Residence hall dining service is not available during summer sessions, but food service is available at Gardner Student Center.

#### University Food Services

University Dining Services are available at several locations on campus (e.g., Robertson Dining Hall, Gardner Student Center, Gallucci Break Point, and Spanton Express). Robertson Dining Hall provides cafeteria-style food service for residence hall students and serves 19 meals each week. Residence hall students have a variety of meal plans from which to choose. Three meal plans are available to all students (Any-10 Meal Plan, 19 Meal Plan, or Flex Plan). The Flex Plan provides cash-value for food purchases at all campus eateries while the Any-10 and 19 Meal plans are assigned only to Robertson Dining Hall. All meal plans are designed to meet the needs of today's college student in terms of cost, flexibility and nutrition. Residence hall students must participate in a meal plan.

#### **Residence Hall Program Board**

The Residence Hall Program Board (RHPB) is a student-administered programming organization which provides a variety of social activities for residence hall students. The RHPB administratively includes six subcommittees (Major Events; Music and Comedy; Telecom; Publicity; Technical and Special Features). RHPB sponsors an array of activities such as Residence Hall Orientation; Little Sibs Weekend; Hall Fest; dances; concerts; talent shows; movies, and trips to sports events. RHPB was named best program board in the nation by the National Association for Campus Activities.

#### **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 and recreational 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.

#### **University Residence Halls**

Brown Street (men)	333 Brown Street
Gallucci Hall (coed)	200 E. Exchange Street
Garson Hall (coed)	282 Torrey Street
Grant Hall (coed)	151 Wheeler Street
Orr Hall (coed)	188 S. College Street
Ritchie Hall (coed)	269 Buchtel Common
Sisler/McFawn (co-ed)	211 E. Center Street
Spanton Hall (women)	190 S. College Street
Townhouses (coed)	Sherman and Grant streets

#### **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 Halls, 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 5:00 pm in all residence halls except Garson Hall 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 5:00 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 provides a community police patrol in all residence halls during the evening and early morning hours.

### SIXTY-PLUS (60+) PROGRAM

Sixty Plus (60+) students taking classes for audit are exempt from payment of tuition and general service fees. (State law 3345:27). However, Sixty Plus (60+) students are expected to pay for books, lab and instructional fees, and parking fees. (This tuition and general service fee exemption does not apply to non-credit Continuing Education courses.)

To be eligible for this program, a person must be 60 years of age or older and a resident of Ohio for at least one year. Under this program a person is entitled to audit up to three credit classes on a space-available-only basis. 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.

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

### STUDENT ASSISTANCE CENTER

The Student Assistance Center is designed to help students make the most of their opportunities at The University of Akron. The Center provides a place to find information, discuss ideas, do some planning, and get some support. Students can ask any question and expect to get information and help. In addition to these general services, the Center places special emphasis on:

- the needs of commuter students, both traditional age and adult learners, by
  offering mentoring programs, child care referral, directory of services, commuter coffee hours, and Ask Aunt Phoebe on-line information service.
- education concerning gender issues preventing sexism, heterosexism, harassment, and acquaintance/date rape.
- services for students with disabilities through the Office of Services for Students with Disabilities.

For more information, contact the Student Assistance Center at (330) 972-5755 or e-mail at sac-ip@uakron.edu. Visit the Center's web page at http://www.uakron.edu/studentaffairs/SAC-MAIN.html, or visit Aunt Phoebe at http://www.uakron.edu/studentaffairs/phoebe/.

### Services for Students with Disabilities

According to provisions outlined in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act, students with disabilities are ensured equal access and reasonable academic adjustments and accommodations by institutions of higher learning.

The Office of Services for Students with Disabilities is part of the Student Assistance Center in the Division of Student Affairs. It is the responsibility of this office to provide students with disabilities the necessary services; that will ensure the opportunity for full participation in University academic programs, activities, and services.

If a student has a specific disability, he or she should contract the Office of Services for Students with Disabilities, Spicer Hall 124, (330) 97 2-7928 (Voice), or (330) 972-5764 (TDD).

### STUDENT FINANCIAL AID

This office serves students who may need financial assist: ance to attend the University. Seven professional staff members provide information on available aid programs.

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

### STUDENT HEALTH SERVICES

Health services are available to all students enrolled at The University of Akron. It is located in Robertson Dining Hall, immediately adjacent to the North Quad residence halls. This facility is capable of handling most acute injuries and illnesses. Student Health Services is open from 8:00 a.m. to 7:00 p.m., Monday through Thursday, and from 8:00 a.m. to 5:00 p.m. on Friday.

The student who becomes seriously ill or suffers a serious injury on campus should be taken to an emergency ward 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.

### STUDENT DEVELOPMENT

Student Development is concerned with each student's University experience outside the classroom, providing a wide range of programs, activities, resources, and professional assistance to afford students a full collegiate experience and to encourage their involvement in campus organizations and activities. Student Development serves as the central coordination point for major traditional campus events such as Homecoming, May Day, Parents'/Family Day, the Salad Bowl Celebration, The Leadership Academy, and the All Campus Recognition Dinner. In addition, Student Development coordinates the registration, funding, and development of 210 student organizations. The Student Development office, located in Gardner Student Center 104, has current information about registered student  $g_{*i}$  ps, fraternities and sororities, as well as current procedures for student organizations es registering new groups. In addition, the office advises so registering new groups, promoting events, recruiting and feating members, managing budgets, and many other organizational skill areas.

The Student Deelopment staff assists as advisers to Interfraternity Council, Panhellenic Council, Greek Programming Committee, and Associated Student Government.

### 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 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 releas ad only on written authorization of the student involved. All hearings are fundar nentally fair and respect the rights of the individuals involved. By becoming fami liar with the definition of student misconduct contained herein, students can br a fully aware of their rights and responsibilities as a student at The University of Ak ron and have a successful, rewarding experience

### Definition of Student Misconduct

The University of <sup>5</sup> Akron defines student misconduct as behavior on or affecting persons or proper ty owned, leased, or operated by the University, that violates codified or explicit<sup>15</sup> stated University rules and regulations. Minor penalties may be assessed inform nally under prescribed procedures\*, but the types of misconduct described below may result in the penalties of formal disciplinary probation, suspension, or disc hissal. Student misconduct includes:

- A. Plagiarism, cheat jing, or other forms of academic dishonesty.
- B. Furnishing false or misleading information to University officials or on official University record is, or altering or tampering with such record.

- C. Detaining, holding, intimidating, injuring or threatening injury or threatening to injure or coerce by bodily harm any person lawfully upon property owned, leased, or operated by the University or in housing occupied or used by recognized University student groups.
- D. Theft, malicious destruction, damage or injury to property not his own.
- E. Appropriating for his own use property not his own without the consent of the owner or person legally responsible for it.
- F. Possession, use or distribution or marijuana or any narcotic, hallucinogenic, or other drug in either the refined or crude form which is prohibited by law.
- G. Unauthorized consumption, possession, or distribution of alcoholic beverages.
- H. Gambling or games of chance as defined in the Revised Code of the State of Ohio and ordinances of the City of Akron.
- Illegal or unauthorized possession or use of firearms, explosives, or other weapons.
- J. Offenses defined as felonies or misdemeanors under the Revised Code of the State of Ohio and ordinances of the City of Akron.
- K. Unauthorized entry into, or use of, University facilities.
- L Active or passive, willful or deliberate obstruction, disruption, or occupation of building entrances, walks, stairways, passageways, approaches, classrooms, offices, parking areas, auxiliary rooms (power, telephone, etc.), or any other space that impedes implementation of authorized programs and functions of the University.
- M.Violation of University regulations prohibiting dogs, other animals, fowl, or reptiles on property owned, leased, or operated by The University of Akron.
- N. Unauthorized copying of an assignment in computer programming, unauthorized examination or view of the computer accounts for unauthorized purposes, engaging in disruptive, mischievious behavior on the computer, or any other wrongful use of a computer.
- O. Doing any act or coercing another, including the victim, to do any act of initiation into any student or other organization that causes or creates a substantial risk of causing mental or physical harm to any person.
- P. Failure to comply with directions of University administrative officers and police, or any other governmental law enforcement officers upholding University'ions, or faculty within the purview of their authority when carrying out their normal duties.

#### \* Procedure for Assessment of Minor Penalties Relative to Minor Incidents of Academic Misconduct.

A student alleged to have committed a minor incident of academic misconduct may, if the student so desires, have the matter resolved and minor penalty assessed in confidential session with the respective faculty member and department head. The resolution thereof and minor penalty assessment shall, if agreed upon, be reduced to writing and executed by the student and department head in which the course was offered. However, in the event the student disagrees or the faculty member or department head do not concur with informal resolution or minor penalty, then the matter shall be resolved in accordance with the requiar student disciplinary procedures.

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 of Akron is the third-largest university in Ohio with a main campus enrollment of 28,000 students from throughout Ohio, the United States, and more than 83 foreign countries. Within a 170-acre campus, the University now reaches into downtown Akron with the continuing renovation of the former Polsky's department store for classroom and office space.

The University employs many people to keep the campus safe and secure. The Division of Administrative Services provides for student and employee safety and security through the departments of Environmental and Occupational Health and Safety, Physical Facilities, and University Police. The Division of Student Affairs is responsible for security and safety policies governing residence halls, farentities, 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 fraternity 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 by fulltime dispatchers.

The University's 28 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.

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.

In accordance with the Drug Free Schools and Communities Act Amendment of 1989, The University of Akron established the Chemical Abuse Resource Education (C.A.R.E.) Center. The C.A.R.E. Center is funded in part by the Fund for Post Secondary Education, U.S. Department of Education. To receive resource, speaker and or program information, call 972-5653 or stop by Gardner Student Center 210.

### **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.

Potential illegal actions and on-campus emergencies can be confidentj<sub>A</sub> reported by any student, faculty, or staff member. Complaints received riate police which fall outside their jurisdiction will be referred to the aprecomagency, or the complainant will be provided a phone number whe university plaint can be filed. Likewise, other agencies refer complaints Police when appropriate.

Two police officers patrol parking lots from 7 a.m. until the level term jumps, inflating let out. UA police also offer assistance to motorists with "tery jumps, inflating tires, unlocking vehicles, and obtaining fuel for a small fe

To request nonemergency assistance, call extension 7123. To schedule an appointment for an educational program, call extension 5454.

For emergencies, dial 911 from any camuus 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 cailing 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 royal blue jackets or yellow 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 lifting of any emergency phone receiver, even if no words are spoken.

Outdoor rescurity phones are at the main entrances of all campus, residence, halls. UA Polic a 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
EMS/Medical	911
Electrical/Plumbing	7415
Hazardous Materials	8123
Closing Information	7111

These emergency numbers are monitored 24 hours a day. If calling from an offcampus 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

egularly inspects facilities and promptly makes repairs to ensure safety and security. aversity Police work with both units to respond to reports of potential safety withcurity hazards, such as broken windows and locks. UA police also work safe lasical facilities personnel to help maintain adequate exterior lighting and aping practices.

## Person Responsibility

The cooperation and safety program is absolvement of students, faculty, and staff in any campus own safety and security and recessary. All must assume responsibility for their precautions. For example, atthoug, the campus is well-lighted, everyone should 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 no 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 nation-wide 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.

The following statistics are from the University Uniform Crime Reports of the past five calendar years. The statistics under Off-campus (O.C.) are crimes reported to the City of Akron Police Department that occurred at University properties off campus. **NOTE:** *Off-campus statistics previous to 1996 reflect all activity in areas surrounding the University, including incidents not directly related to University functions.* 

	NUMBER OF REPORTS									
	92	0.C. 92	93	O.C. 93	94	O.C. 94	95	O.C. 95	96	O.C. 9
CRIME										
Homicide	0	0	0	0	0	0	0	0	0	0
Rapes	1	0	0	0	2	0	4	15	3	0
Robbery	0	5	7	1	2	0	3	41	4	0
Aggravated Assault	0	3	6	5	1	0	8	21	3	0
Burglary										
Forcible Entry	2	33	11	0	10	0 ·	3	126	3	0
Unlawful Entry (no force)	0	5	8	0	11	0	1	42	7	0
Attempted Forcible Entry	0	11	7	0	3	0	1	2	1	0
Burglary Totai	2	49	26	5	24	0	5	170	11	0
Theft										
Under \$50	0	183	17	1	15	0	139	NA	125	1
\$50 to \$200	1	171	18	3	18	0	146	NA	136	0
\$200 and Over	1	108	16	5	18	0	150	NA	169	1
Theft Total	2	462	51	9	51	0	435	NA	430	2
Motor Vehicle Theft	0	5	18	1	28	0	13	5	8	0
Arson	0	1	12	0	1	0	1	11	2	0
				NUM	BER	OF ARRE	STS			
	92	O.C. 92	93	O.C. 93		O.C. 94	95	O.C. 95	96	0.C. 9
CRIME										
Liquor Law Violations	35	0	64	54	32	54	55	NA	89	. 0
Drug Abuse Violations	3	0	6	0	15	1	9	NA	22	0
Weapons Posession	4	0	2	0	3	4	1	NA	3	0

## 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 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 University 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 public radio station, WZIP (88.1 FM).

A University student interested in music may audition for membership in the famous 200-piece Marching Band, the Concert Choir, the award-winning Jazz Ensemble, the University Orchestra, the Concert Band, the Symphonic Band, the outstanding Opera Theatre, or any number of other 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 Repertory Dance Company, which works closely with the world-renowned Ohio Ballet.

### 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 17 NCAA Division I intercollegiate sports. The three athletic seasons include: Fall– football, men'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 rifle; Spring-women's fast-pitch softball, baseball, men's golf, men's and women's tennis, and men's and women's outdoor track. 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 Disabilities Awareness Week, 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 26 registered fraternities 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 fraternities and sororities. The Office of Greek Affairs is located in Gardner Student Center 210, (330) 972-7909, http://www.uakrc.o.edu/studdev.

### 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. The Leadership Council has 10 student positions, including four officers and six program chairpersons. Council positions are selected every April. Committee membership is open to any student interested in developing organizational, leadership, and management skills. Programs include College Bowl Campus Tournament, Children's Holiday on Campus, Music and Comedy Series, Current Issues Series, and Cultural Diversity Series. The UPB office is located in the lower level of Gardner Student Center, (330) 972-7014.

### **DIVERSITY OPPORTUNITIES**

The University of Akron is a diverse community of students representing more than 80 countries. As such, we are provided with a unique opportunity to celebrate this diversity through multicultural programming, international celebrations, and sensitivity seminars. The Student Development office provides the Salad Bowl Celebration celebrating the food, dance, music, customs, and talents of our students. The Diversity Committee programs the annual Martin Luther King, Jr. Day Celebration during the observed holiday and works to provide sensitivity seminars throughout the year. In addition, the Cultural Diversity Committee of University Program Board presents a multitude of diverse talents and addresses issues through human and civil rights lectures, and entertainers from every walk of life. Greek students address topics of college life during Collegiate Issues month and Associated Student Government's Minority Affairs Commission offers opportunities for confronting these issues.

A number of campus departments such as the Black Cultural Center, the Office of International Programs, Peer Consultants, Minority Affairs, and the campuswide Diversity Council attend to supporting the value of diversity programming and multicultural awareness. For more information about specific programs, consult the Directory for these mentioned departments.

### 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. Each classroom is staffed with a Pre-K certified teacher and student aides. Opportunities are provided for the children to engage in developmentally appropriate activities in the following areas: creative art, language arts, music and rhythms, science exploration, gross motor and fine motor development, sociodramatic play, multi-sensory activities, and computer experience. The program emphasizes the development of a positive self concept through an anti-bias curriculum.

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 two-and-a-half to five years old and toilet trained.

A summer pre-school flextime program is offered Summer Session I.

4

A summer program is also offered for school-aged children. This program is offered during Summer Sessions I and II from 7:00 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 corner of Fir Hill and Buchtel. Also available on a weekly basis are small group bible studies, Sports Focus (Wednesday night basketball), and That Wednesday Prayer Thing (11 a.m. to noon in the GSC Carnation Room. 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 on more than 800 college and university campuses throughout the U.S. and abroad. The fellowship is not formally affiliated with any demonination, but welcomes students from all denominations, as well as those with no church affiliation. InterVarsity's vision is to build collegiate fellowships, develop disciples who embody biblical values, and engage the campus in all its ethnic diversity with the gospel. The organization sponsors weekly biblical teaching, prayer meetings, worship, fellowship, and ministry opportunities. Call (330) 972-8007 for more information, or visit the InterVarsity office in student office #5 in the GSC basement level.

**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.

University Christian Connections is your ecumenical campus ministry supported by nine denominations and affiliated local churches offering a ministry of care, encouragement, nurture and guidance. The ministry provides personal and spiritual counseling, sponsors on-campus workshop opportunities, facilitates discussions reflecting values and spiritual journey, supports other campus ministry programs, and serves as the connection between students and local churches. The Listening Post is a freindly space for communication, and fellowship grants are available to students serving in ministries of local churches and missions.

University Christian Connections is supported by American Baptist, Catholic, Christian (Disciples), Church of the Brethren, Episcopal, Evangelical Lutheran, Presbyterian (USA), United Church of Christ, and United Methodist churches. The Rev. Bob Dreese serves as chaplain and may be reached at any time at (330) 849-2514.

### DIRECTORY OF STUDENT ORGANIZATIONS

April 1997

#### Honoraries

Akron Premedical Honor Society (biology) Alpha Kappa Delta (sociology) Alpha Sigma Lambda (non-traditional scholastic)

Beta Alpha Psi (accounting) Beta Gamma Sigma (business) Chi Sigma lota (counseling) Delta Phi Alpha (German) Eta Kappa Nu (electrical engineering) Golden Key National Honor Society Honors Club (Honors Program) Kappa Omicron Nu (home economics) Mortar Board (leadership/scholastic) National Residence Hall Honorary Omicron Delta Epsilon (economics) Omicron Delta Kappa (leadership/ scholastic) Order of Omega (interfraternity) 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 lota Epsilon (management) Tau Alpha Pi (engineering & science technology)

#### Tau Beta Pi (engineering)

#### Professional

American Chemical Society American Institute of Aeronautics & Astronautics American Institute of Chemical Engineers American Society for Training and Development American Society of Civil Engineers American Society of Mechanical Engineers Biomedical Engineering Society Criminal Justice Association Delta Sigma Pi **Environmental Professionals** Implementing Change (EPIC) Graduate Business Student Association Institute of Management Accountants National Society of Black Engineers Ohio Collegiate Music Educators Association Phi Alpha Delta Law Fraternity Phi Delta Phi Pi Sigma Epsilon Public Relations Student Society of America Society for Human Resource Management Society of Plastics Engineers

Student Fashion Association Women in Communications, Inc.

### Publications

Akros Review The Buchtelite Tel-Buch

#### **Special Interests**

Alpine Ski Team Amateur Radio Club Ambassadors Aquatics Club Association for Student Outreach **BACCHUS and GAMMA** Bike Club Black United Students Campus Habitat for Humanity Chess & Go Club Circle K Filmsters Gospel Choir Green Dragon Kung-Fu Club Guitar Club Karate/Judo/Taekwondo Club Lacrosse Club Lesbian/Gay/Bisexual Union Northeastern Ohio Flute Association Outdoor Adventure Club Pre-Law Club Senior Class Board Ski Club Snowboard Club Speech and Debate Team University Gaming Society Vietnam Veterans Chapter Zip Recruiting Club

#### Non-Traditional

Alpha Sigma Lambda (scholastic honorary)

#### Graduate

Chi Sigma lota Counseling Psychology Graduate Student Organization Graduate Business Student Association Graduate Nursing Student Organization Graduate Student Government Industrial/Organizational Psychology Graduate Students Minority Graduate Student Council Polymer Science Student Organization Public Administration and Urban Studies Student Association Society of Plastics Engineers Student Association for Graduates in Education (SAGE) Law Asian Latino Law Students Association Black Law Students Association Bracton's Inn Oral Advocacy Society Criminal Justice Association Environmental Law Society Health Law Society Intellectual Property and Technology Association

International Law Society Jewish Law Students Association Law Association for Women

#### Law, continued

National Association of Criminal Defense Lawyers Phi Alpha Delta Law Fraternity Phi Delta Phi Sports and Entertainment Law Society Student Bar Association

#### Religious

Akron Chinese Christian Fellowship Athletes in Action Baptist Student Union Campus Focus Hillel Intervarsity Christian Fellowship Muslim Students Association Newman Catholic Community University Christian Connection

#### Political

College Republicans University Democrats

#### Military

Arnold Air Society Association of the U.S. Army National Society of Pershing Rifles Rangers Sabre Drill Team

#### Programming

Residence Hall Program Board University Program Board

#### International

Chinese Student Association (Taiwan) Chinese Student & Scholar Society Hispanos Organizados por Lengua y Amistad (HOLA) Hong Kong Students Indian Students Association International Students Club Italian Club Korean Student Association Lebanese Student Club Minority Graduate Student Council Thai Students Organization Turkish American Student Association

#### **Governing Bodies**

Associated Student Government Black Greek Council Graduate Student Government Interfraternity Council Panhellenic Council Residence Hall Council Student Bar Association

#### Social Fraternities

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

#### Social Sororities

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

#### Departmental

Accounting Association Advertising Club Akron Council of Education Students American Society of Interior Designers Anthropology Club Biology Club Black Education Students Collegiate Nursing Club Collegiate Secretaries International Computer Science Club Counseling Psychology Graduate Student Organization Data Processing Management Association Dean's Advisory Council Economics Club Engineering Student Council Fire Protection Society Future Physicians Club Geography and Planning Organization Geology Club Gerontology Association Harmonia Hospitality Club Industrial/Organizational Psychology Graduate Students Institute of Electrical & Electronics Engineers International Business Association International Law Society Kappa Kappa Psi League of Black Communicators Literary Guild 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 Association for Graduates in Education Student Council for Exceptional Children Student Dietetic Association Student Fashion Association Student Social Work League Student Toastmasters Tau Beta Sigma Terpsichore Dance Club Theatre Guild

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# SECTION THREE

Admissions, Procedures, Requirements and Fees

# 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.
- 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 coursework 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, "new majority" 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) 972-7100, 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 ninth-grade 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) 972-7100, or toll-free (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Fill it out 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 and Testing 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.
- 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.
- To arrange for the mathematics test, contact the Testing Bureau, Simmons Hall 161, at (330) 972-7084. The English test can be taken by contacting the Department of Developmental Programs, Carroll Hall 210, at (330) 972-7087. Have test score(s) interpreted by contacting the dean of the University College, Spicer Hall 214, at (330) 972-7066 two days after taking the appropriate test(s). Please note that failure to take the required test(s) prohibits enrollment in college-level mathematics and/or English courses.
- 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 to the University, the student will receive directions for new student orientation and academic advising.

# **Adult Students**

An adult student who has graduated from a regionally accredited secondary school or completes 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) 972-7100, or toll-free (800) 655-4484, or by writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Fill it out 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 must submit results of either the ACT or SAT. (The University of Akron's Counseling and Testing Center serves as a testing center for the ACT test.) These test scores are needed before an applicant is formally admitted to 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 to the University, the student will receive directions concerning new student orientation. All freshmen receive academic advising through the Academic Advising Center.

### **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. Also, the student must 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 Admissions for admission criteria.

A transfer student should apply as follows:

- Obtain an application form from the Office of Admissions, either by calling (330) 972-7100, or toll-free (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Fill it out 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. If it appears necessary to validate the transfer credits of a student with more than 12 credits, the appropriate admitting officer may also require the ACT battery. These documents must be received and evaluated before any admission action can be taken by the University.
- 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 (Simmons 161, (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).
- Please note that failure to take the required test(s) prohibits enrollment in college level mathematics and/or English courses.
- 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 directions concerning academic counseling. University College freshmen and some sophomore day students receive academic advisement through the Academic Advisement Center. A student in the Community and Technical College or another degree-granting college will be advised by a faculty member in the appropriate department.

## **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 coursework.

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 multi-level, broad based appeal process is required to be in place at each institution. A student disagreeing with the application of transfer credit by the receiving institution shall be informed of the right to appeal the decision and the process for filing the appeal. Each institution shall make available to students the appeal process for that specific college or university.

If a transfer student's appeal is denied by the institution after all appeal levels within the institution have been exhausted, the institution shall advise the student 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

Combinatorics and Probability

Linear Programming

Matrices

Trigonometry

Math of Finance

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. English – 7 credits

3450:113

3450:114

3450:115

3450:127

3450:138

2020:121	English*	4
3300:111	or English Composition	4
3300:112	and English Composition II	3
II. Mathemati	ics 3 credits	
2030:142	Math for Data Processing II*	4
2030:152, 153	Elements of Math II, III*	2, 2
2030:161	Math for Modern Technology*	4

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	3450:145	College Algebra	4
	3450:149	Pre-calculus Math	4
	3450:215	Concepts of Calculus I	4
	3450:221	Analytic Geometry-Calculus I	4
	3470:260	Basic Statistics	3
	3470:261	Introductory Statistics I	2
	3470:262	Introductory Statistics II	2
	0170.202	introductory oftensics in	2
II.	Arts/Humar	nities – 10 credits	
		required of all students:	
	3400:210		
	3400.210	Humanities in the Western Tradition I	4
	Two courses fro	m different sets are required from the following:	
	Set 1		
	7100:210	Visual Arts Awareness	3
	7500:201	Exploring Music: Bach to Rock	3
	7800:301	Introduction to Theatre and Flim	3
	7900:200	Viewing Dance	3
	Set 2		
	3200:220	Introduction to the Ancient World	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
		introduction to Logic	0
	Set 3		
	3200:361	Literature of Greece	3
	3300:250	Classic and Contemporary Literature	3
	3300:252	Shakespeare and His World	3
	3520:350	Themes in French Literature in Translation	3
	3580:350	Literature of Spanish America in Translation	3
	Set 5		
		Line and the Masters Territies II	4
	3400:211	Humanities in the Western Tradition II	4
.,	Conial Cala	nce – 6 credits	
v			
	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
			•
	Set 2		~
	3350:100	Introduction to Geography	3
	Set 3		
		American Urban Society*	3
	2040:240	American Urban Society* Government and Politics in the U.S.	3
	2040:240 3700:100	American Urban Society* Government and Politics in the U.S.	
	2040:240 3700:100 Set 4	Government and Politics in the U.S.	4
	2040:240 3700:100 <b>Set 4</b> 2040:240	Government and Politics in the U.S. Human Relations*	4 · 3
	2040:240 3700:100 <b>Set 4</b> 2040:240 3750:100	Government and Politics in the U.S. Human Relations* Introduction to Psychology	4 · 3 3
	2040:240 3700:100 <b>Set 4</b> 2040:240	Government and Politics in the U.S. Human Relations*	4 · 3
	2040:240 3700:100 <b>Set 4</b> 2040:240 3750:100	Government and Politics in the U.S. Human Relations* Introduction to Psychology	4 · 3 3
	2040:240 3700:100 <b>Set 4</b> 2040:240 3750:100 3850:100 3870:150	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology	4 · 3 3 4
	2040:240 3700:100 Set 4 2040:240 3750:100 3850:100 3870:150 Set 5	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology	4 3 3 4 4
	2040:240 3700:100 <b>Set 4</b> 2040:240 3750:100 3850:100 3870:150 <b>Set 5</b> 3400:250	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology U.S. History to 1877	4 3 3 4 4 4
	2040:240 3700:100 Set 4 2040:240 3750:100 3850:100 3870:150 Set 5	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology	4 3 3 4 4
	2040:240 3700:100 <b>Set 4</b> 2040:240 3750:100 3850:100 3870:150 <b>Set 5</b> 3400:250	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology U.S. History to 1877 U.S. History since 1877	4 3 3 4 4 4 4
	2040:240 3700:100 <b>Set 4</b> 2040:240 3750:100 3850:100 3870:150 <b>Set 5</b> 3400:250 3400:251	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology U.S. History to 1877 U.S. History since 1877	4 3 3 4 4 4
	2040:240 3700:100 Set 4 2040:240 3750:100 3850:100 3870:150 Set 5 3400:250 3400:251 Set 6 2040:241	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology U.S. History to 1877 U.S. History since 1877 Technology and Human Values*	4 3 3 4 4 4 4
	2040:240 3700:100 Set 4 2040:240 3750:100 3850:100 3870:150 Set 5 3400:250 3400:251 Set 6	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology U.S. History to 1877 U.S. History since 1877	4 · 3 3 4 4 4 4 2
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<b>.</b>	2040:240 3700:100 Set 4 2040:240 3750:100 3850:100 3850:100 3870:150 Set 5 3400:250 3400:251 Set 6 2040:241 3600:125 Natural Scie Select at least tv	Government and Politics in the U.S. Human Relations* Introduction to Psychology Introduction to Sociology Cultural Anthropology U.S. History to 1877 U.S. History since 1877 Technology and Human Values* Theory and Evidence Proce – 8 credits vo different sciences, one of which must include a laboratory comp	4 3 3 4 4 4 4 2 3
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3370:103	Natural Science: Geology	3
3370:200	Environmental Geology	3
3370:201	Exercises in Environmental Geology I	1
3370:202	Geology of the National Parks	3
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
VI. Interdiscipl	inary – 4 credits, two courses	
2040:254	The Black American	2
3350:375	Geography of Cultural Diversity	2
3400:385	World Civilizations: China	2
3400:386	World Civilizations: Japan	2
3400:387	World Civilizations: Southeast Asia	2
3400:388	World Civilizations: India	2
3400:389	World Civilizations: Near East	2
3400:390	World Civilizations: Africa	2
3400:391	World Civilizations: Latin America	2
Additional inform	ation regarding the Transfer Module may be obtained :	from th

Additional information regarding the Transfer Module may be obtained from the University College Dean's Office, (330) 972-7009.

### **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) 972-7100, or toll-free (800) 655-4884, or writing the Office of Admissions, The University of Akron, Akron, OH 44325-2001. Fill it out 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 coursework. 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.

### **Post-Secondary Enrollment Options**

A student in the 11th or 12th grade may enroll in the Post-Secondary Enrollment Options program. A student below the 10th grade may enroll in the Youth Enrollment Options Program. Students must meet the outlined criteria:

- Demonstrated academic ability, maturity, and preparation.
- 3.0 grade point average (GPA) for college preparatory coursework.
- Students above 9th grade must have passed the 9th grade proficiency tests.
- Students without college preparatory coursework must have a 3.3 GPA for work completed.
- Students without college preparatory coursework and with less than a 3.3 GPA are limited to performance type coursework such as music, art, etc.

 The Post-Secondary Enrollment Options programs are limited and selective. The University reserves the right to accept only as many qualified students as can be properly served.

This procedure should be followed:

- Obtain a post-secondary enrollment options application from the Office of Admissions, The University of Akron, Akron, OH 44325-2001.
- Complete and return the form with the guidance counselor's and parent's 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 post-secondary 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 coursework 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.

# CONDITIONAL/ UNCONDITIONAL ADMISSION

The University of Akron has adopted a "conditional/unconditional" admission policy for traditional-aged entering freshmen effective Fall 1994. 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 successful at the University. The key elements of the policy are:

Entering freshmen who are identified as being academically underprepared will be admitted "conditionally" and be required to complete skill building courses and other prescriptive activities. Conditionally admitted students are those with less than a 2.30 GPA and less than 16 ACT/650 SAT with or without the core curriculum or less than a 2.8 GPA and less than 19 ACT/800 SAT without the core curriculum.

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

Most students (including those who are undecided about their major) begin their college career in the University College. Students are admitted "unconditionally" 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.

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

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.

### Criteria for Direct Admission to Degree-Granting College

COLLEGE/DEPT.	MINIMUM REQUIREMENTS
Buchtel College of Arts and Sciences	Requirements vary by department
Biology	<ul> <li>3.0 high school grade point average</li> <li>21 ACT - 880 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Chemistry	<ul> <li>3.0 high school grade point average</li> <li>20 ACT - 840 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Classics	<ul> <li>3.3 high school grade point average</li> <li>25 ACT - 1050 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Economics	<ul> <li>2.7 high school grade point average</li> <li>20 ACT - 840 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
English	<ul> <li>2.75 high school grade point average</li> <li>20 ACT - 840 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Geography and Planning	<ul> <li>2.75 high school grade point average</li> <li>20 ACT - 840 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Geology	<ul> <li>2.75 high school grade point average</li> <li>21 ACT - 880 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
History	<ul> <li>2.75 high school grade point average</li> <li>21 ACT - 880 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Mathematical Sciences	<ul> <li>3.0 high school grade point average</li> <li>22 ACT - 920 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Modern Languages	<ul> <li>3.0 high school grade point average</li> <li>20 ACT - 840 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Philosophy	<ul> <li>3.0 high school grade point average</li> <li>22 ACT - 920 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Physics	<ul> <li>3.0 high school grade point average</li> <li>22 ACT - 920 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Political Science	<ul> <li>3.0 high school grade point average</li> <li>21 ACT - 880 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Psychology	<ul> <li>3.3 high school grade point average</li> <li>25 ACT - 1050 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>
Sociology	<ul> <li>3.0 high school grade point average</li> <li>21 ACT - 880 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> </ul>

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

COLLEGE/DEPT.	MINIMUM REQUIREMENTS
College of Business Administration (all departments)	<ul> <li>3.0 high school grade point average or</li> <li>upper 50% of high school graduating class</li> <li>21 ACT - 880 SAT</li> <li>core curriculum</li> </ul>
College of Education (all departments)	<ul> <li>3.5 high school grade point average</li> <li>25 ACT - 1050 SAT</li> <li>upper 20 of high school graduating class</li> <li>core curriculum</li> </ul>
<b>College of Engineering</b> (all departments)	<ul> <li>3.4 high school grade point average</li> <li>24 ACT - 1010 SAT Composite score</li> <li>25 ACT - 560 SAT Math score</li> <li>upper 25% of high school graduating class</li> <li>core curriculum including: <ul> <li>4 units Math, including</li> <li>Trigonometry,</li> <li>with grade of B or above,</li> <li>1 unit Chemistry, with grade of B or above</li> </ul> </li> </ul>
College of Fine and Applied Arts	Requirements vary by major below
Art	<ul> <li>3.3 high school grade point average</li> <li>22 ACT - 920 SAT</li> <li>upper 30 of high school graduating class</li> <li>core curriculum</li> </ul>
Communication	<ul> <li>3.4 high school grade point average</li> <li>25 ACT - 1050 SAT Composite score</li> <li>27 ACT - 600 SAT Verbal score</li> <li>upper 25% of high school graduating class</li> <li>core curriculum</li> </ul>
Speech-Language Pathology and Audiology	<ul> <li>3.5 high school grade point average</li> <li>25 ACT - 1050 SAT</li> <li>upper 10 of high school graduating class</li> <li>core curriculum</li> </ul>
Dance	<ul> <li>3.0 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> <li>at point of audition, student must qualify for admission to Ballet V or higher</li> <li>must continue in good standing and pass sophomore jury</li> </ul>
Music	No direct admission
Theatre Arts	<ul> <li>2.5 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>upper 65 of high school graduating class</li> <li>core curriculum</li> </ul>
Social Work	No direct admission
Home Economics and Family Ecology	Requirements vary by major below
Family Development, Child Development, and Pre-K Certification	<ul> <li>3.0 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> <li>enroll in and complete 7400:147 during first year of coursework</li> </ul>
Child Life	<ul> <li>3.0 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>directly admitted as Child Development major</li> <li>as a junior must complete further evaluation based on interviews, interests, and grade point average</li> </ul>

COLLEGE/DEPT.	MINIMUM REQUIREMENTS		
College of Fine and Applied Arts, cont.			
Fashin Merchandising and Interior Design	<ul> <li>3.0 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> <li>enroll in and complete 7400:147 during first year of coursework</li> </ul>		
Dietetics and Nutrition	<ul> <li>3.5 high school grade point average</li> <li>20 ACT - 840 SAT</li> <li>upper 25% of high school graduating class</li> <li>core curriculum</li> <li>enroll in and complete 7400:147 during first year of coursework</li> </ul>		
Food Science	<ul> <li>3.0 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> <li>enroll in and complete 7400:147 during first year of coursework</li> <li>take Chemistry I and II courses</li> <li>meet with Food Science adviser during first semester on campus</li> </ul>		
Home Economics Education, Vocational Home Economics Teacher Education	<ul> <li>3.0 high school grade point average</li> <li>19 ACT - 800 SAT</li> <li>upper 50% of high school graduating class</li> <li>core curriculum</li> <li>enroll in and complete 7400:147 during first year of coursework</li> <li>meet with Home Economics adviser during first semester on campus</li> </ul>		
College of Nursing	<ul> <li>3.5 high school grade point average</li> <li>25 ACT - 1050 SAT</li> <li>upper 10% of high school graduating class</li> <li>core curriculum including:</li> <li>Algebra and Geometry</li> <li>Biology and Chemistry</li> </ul>		
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 AND SCHOLARS

The University of Akron welcomes international students and seeks to make their educational experience pleasing and meaningful. Each year, approximately 810 international students and scholars from 91 countries pursue studies and research at The University of Akron.

## Admission Procedures for International Students

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

Applicants should be high school graduates with a minimum grade-point average of 2.00 (or its equivalent) in the last three years of study.

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 44325-3106 USA
Telephone: Fax: E-Mail: World Wide Web:	(330) 972-6349 (330) 972-8604 international@uakron.edu http://www.uakron.edu/studentaffairs/ INTERNATIONAL/IP-MAIN.html

Return the completed application with a non-refundable one-time application fee of \$50 made payable to The University of Akron.

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.

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 student for whom English is not the native language to take the Test of English as a Foreign Language (TOEFL). This test is administered in major cities throughout the world. Applications may be obtained from bi-national agencies, the United States Information Service (USIS) offices, or from the Educational Testing Service, Princeton, NJ, 05840, USA.

Undergraduate applicants must achieve a minimum score of 500. TOEFL scores are valid for a two-year period of time only.

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 <u>not</u> take undergraduate courses at the same time.

Further information may be obtained from:

English Language Institute The University of Akron Akron, OH 44325-1909 Telephone: (330) 972-7544 Fax: (330) 972-7543 E-Mail: uaeli@uakron.edu World Wide Web: http://www.uakron.edu/eli Applicants who have satisfactorily completed nine months of full-time academic coursework in an American college or university and are in good standing at that college or university may have the TOEFL examination waived upon written request to <u>and final approval</u> by the Office of International Programs.

# Financial and Immigration Documentation

Undergraduate tuition, fees, and living expenses for the 1997-98 academic year will be approximately \$17,524. (Approximate nine-month cost for graduate students is \$17,929 and for law students is \$19,839.) These figures are reflected on the Declaration and Certification of Finances (DCF), which is included in the application packet. The applicant should complete the back portion of the DCF, attach an original bank statement reflecting sufficient funding and return both documents to the Office of International Programs. Copies are <u>not</u> accepted. Sending financial documents with the application will prevent delays in the issuance of the Certificate of Eligibility (I-20A/B or IAP-66).

To apply for a student visa, you will need a Certificate of Eligibility (I-20A/B or IAP-66), which is an immigration document issued by the University's Office of International Programs. This document will be prepared only after the student has been admitted for undergraduate study and has demonstrated sufficient funding. Once you receive the Certificate of Eligibility, you may apply for a student visa at the U.S. Consulate or Embassy.

## Scholarships

A limited number of June Thomas Rogers Scholarships are available to 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 health insurance coverage must be in effect during the student's stay in the United States.

# International Student Orientation

International students are required to attend an International Student Orientation that takes place one week before classes and for which they are charged \$45. The orientation dates will be provided in the pre-arrival letter sent to the student with the immigration documentation.

# **Procedures and Requirements**

# **NEW STUDENT ORIENTATION**

All new freshmen and University College transfer students are required to attend an orientation program in conjunction with registration. Traditional freshmen attend a two-day program intended to insure a smooth transition from high school to college. It includes sessions on academic responsibility, current campus issues, finances, cultural diversity, and involvement in campus life as well as a tour, placement testing, academic advising, and registration. Transfer and adult students will attend a specialized full one-day session tailored to their particular needs.

Details and various orientation fees are included in the material received after admission. Multiple orientation sessions are available prior to each term and are filled on a first-come, first-served basis. Therefore, early and careful planning is important.

# **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 or in person. Details about these options are described 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 open registration period will be charged a non-refundable late registration 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

## Additions to Student Schedules

A student must register for a course before the end of the fifth *c*ay 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 only with the *p*ermission of the adviser, instructor, and dean or the dean's designate.

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 14th day of a semester or comparable dates during summer session, intersession, etc. After the 14th 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 offices of the Registrar and Cashier 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 14th 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 coursework 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, grade, and credit value; no grade-point value will appear on the record and no grade-point average will be claculated 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, the Office of the Registrar mails grade reports to a student's home address; summer grade reports are mailed for both summer sessions at the end of the second summer session.

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	Grade Points Per Credit
A	4.00
A-	3.70
B+	3.30
8	3.00
B-	2.70
C+	2.30
С	2.00
C-	1.70
D+	1.30
D	1.00
D-	0.70
F	0.00
AUD (Audit)	0.00
CR (Credit)	0.00
NC (Noncredit)	0.00

The following grades may also appear on the term grade reports or on the official academic record. There are no grade points associated with these grades.

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 coursework 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 sometime after the second week 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 academic good 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.

## 2 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, suspension, 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 and maintains a grade-point average of at least 2.50 or better for the first 24 credits 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.

This policy is to apply only to the grade-point average. All grades will remain on the student's official academic record. A student may utilize this academic reassessment policy only once.

In the determination of graduation with honors and class standing, all grades obtained at The University of Akron shall be used in the calculations.

Once these criteria are met, the student petitions the dean to delete from the grade-point average the grades obtained under the previous enrollment. 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.

### 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 assessment program is to improve student growth in academic and social skills, student services, and the quality of campus life. This process requires student cooperation. Students are expected to participate in various assessment tests and surveys.

# **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].)

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 noncredit basis is expected to meet the full requirements of the course as required by the instructor.

A student can not raise a grade through re-examination.

## **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 coursework at another accredited insitution of higher education must receive prior approval by the academic dean of the appropriate unit if the student intends to apply this coursework 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 coursework 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 coursework 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 baccalaurate degree or within 16 units of receiving an associate degree, the student must receive transient permission from the student's degree-granting college.

**Note:** Coursework taken at another insitution 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	Credits
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
Biology	3 (non-science majors only)	3100:112 Principles of Biology 3100:100 Nature Study: Plants 3100:101 Nature Study: Animals 3100:105 Introduction to Ecology	4 3 3 2
Calculus AB	4 or 5 OR	3450:149 Precalculus Mathematics 3450:215 Concepts of Calculus I	4 4
	Un Un	3450:149 Precalculus Mathematics 3450:221 Analytical Geometry - Calculus I	4 4
Calculus BC	4 or 5	3450:149 Precalculus Mathematics 3450:215 Concepts of Calculus I 3450:216 Concepts of Calculus II	4 4 4
	C.	3450:149 Precalculus Mathematics 3450:221 Analytical Geometry - Calculus I 3450:222 Analytical Geometry - Calculus II	4 4 4
Chemistry	3, 4, or 5	3150:151 Principles of Chemistry I 3150:152 Principles of Chemistry I Lab 3150:153 Principles of Chemistry II 3150:154 Quantitative Analysis	3 1 3 2
Computer Scien	<b>ce</b> 3, 4, or 5	3460:205 Introduction to Pascal Programming	3
Economics	3, 4, or 5 OR	3250:200 Principles of Microeconomics 3250:201 Principles of Macroeconomics	3 3
English	3 or 4	3300:111 English Composition I	3
English	5	3300:111 English Composition I	4
-		3300:112 English Composition II	3
History/America	an 4 or 5	3400:250 U.S. History to 1877 3400:251 U.S. History since 1877	4 4
History/Europea		3400: 211 Humanities in the Western Tradition	
Latin	3, 4, or 5	3220:121 Beginning Latin I 3220:122 Beginning Latin II	4 4
Modern Langua	ges 3, 4, or 5 OR	3580:101 Beginning Spanish I 3580:102 Beginning Spanish II	4 4
(French depends	on Form/with consultation)	3520:101 Beginning French I 3520:102 Beginning French II	4 4
	011	3530:101 Beginning German I 3530:102 Beginning German II	4 4
Physics	4 or 5 OR	3650:261 Physics for the Life Sciences I 3650:262 Physics for the Life Sciences II	4 4
	U.	3650:291 Elementary Classical Physics I 3650:292 Elementary Classical Physics II	4 4
Political Science American Gover		3700:100 Government and Politics in the U.S.	4
Political Science Comparative Po		3700:300 Comparative Politics	4
Psychology	4 or 5	3750:100 Introduction to Psychology	3

### **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.

	_		Approved for
Discipline	Course	Prerequisite	Bypassed Credit
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 2540:173	2540:151 2540:171	2540:150,1 2540:171
	of Arts and Scien	ces	
Classics	3210:122	3210:121	3210:121
	3210:223	3210:121,2	3210:121,2
	3210:224	3210:121,2,223	3210:121,2,223
	3210:303 3210:304	3210:121,2,223,4 3210:121,2,223,4	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 3250:410	3250:201 3250:200	3250:201 3250:200
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
Mathematical Sciences	3450:215 3450:216	3450:145 or 149 3450:215	3450:145 3450:215
	3450:221	3450:149	3450:149
	3450:222	3450:221	3450:149,221
	3450:223	3450:222	3450:149,221,222
	3460:210 3470:262	3460:209,3450:208 3470:261	3460:205 or 209 3470:261
	3470:253	3470:261	3470:261
Modern	3500:102	3500:101	3500:101
Languages	3500:201	3500:101,2	3500:101,2
	3500:202	3520:101, 2, 201	3500:101, 2, 201
	3500:422	3520:101, 2, 201, 2	3500:101, 2, 201, 2
	3520:102	3520:101	3520:101
	3520:201 or 207	3520:102	3520:101,2
	3520:202 3520:208	3520:201 3520:201 or 207	3520:101,2,201
	3520:301.2.5.6	3520:201 01 207	3520:101,2,201 or 207 3520:101,2,201,2
	3520:309,10,11	3520:302 or 306	3520:101,2,201,2
	3520:312,351,2,		0020.101,2,201,2
	313,401	3520:202	3520:101,2,201,2
	3520:403,4 3520:407,411,415,	3520:302	3520:101,2,201,2
	419,427,429,450	3520:302 or 306	3520:101,2,201,2
	3530:102	3530:101	3530:101
	3530:201 or 207	3530:102	3520:101,2
	3530:202 3530:208	3530:201 3530:201 or 207	3530:101,2,201
	3530:208	3530.201 01 207	3530:101,2,201 or 207
	351,2	3530:202	3530:101,2,201,2
	3530:403,4 3530:406,7,419,20,	3530:302	3530:101,2,201,2
	431,2,435,6,		
	439,440	3530:302 or 306	3530:101,2,201,2
	3550:102	3550:101	3550:101
	3550:201 or 207	3550:102	3550:101,2
	3550:202 3550:208	3550:201 3550:201 or 207	3550:101,2,201 3550:101,2,201 or 207
	3550:301,2,	5550.201 OF 207	3550:101,2,201 or 207
	305,6	3550:202	3550:101,2,201,2
	3570:102	3570:101	3570:101

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

			A
	Course	0	Approved for
Modern	3570:201 or 207	Prerequisite	Bypassed Credit
		3570:102	3570:101,2
Languages, cont.	3570:202	3570:201	3570:101,2,201
	3570:208	3570:201 or 207	3570:101,2,201 or 207
	3570:301,2,305,6,		
	309,10	3570:202	3570:101,2,201,2
	3570:403,4	3570:302	3570:101,2,201,2
	3570:420,1	3570:301 or 302	3570:101,2,201,2
	3570:427,8	3570:202	3570:101,2,201,2
	3570:439	3570:404	3570:101,2,201,2
	3580:102	3580:101	3580:101
	3580:201 or 207	3580:102	3580:101,102
	3580:202	3580:201	3580:101,2,201
	3580:208	3580:201 or 207	3580:101,2,201 or 207
	3580:301,2,		
	305,6	3580:202	3580:101,2,201,2
	3580:403,5,6	3580:302	3580:101,2,201,2
	3580:407,8	3580:302 or 306	3580:101,2,201,2
	3580:409,10,11	3580:302	3580:101,2,201,2
	3580:415,419	3580:302 or 306	3580:101,2,201,2
	3580:422	3580:202	3580:101,2,201,2
	3580:423,		
	427,8,9	3580:302 or 306	3580:101,2,201,2
College of Engin	ooring		
College of English	4200:200	4200:120	4200:120
	4200.200	4200.120	4200:120
College of Fine a	nd Applied Arts		
Speech-Language	••		
Pathology and	7700:102	7700:101	7700:101
Audiology	7700:201	7700:102	7700:101.2
0,	7700:202	7700:201	7700:101,2,201
o			
	ng RN-BSN Seque	ence	
(Limited to Licensed F			
	8200:446	8200:336,405	8200:205,215,315
		415,435,	330,350,360,370
		440,225	380,410
College of Nursi	ng RN-MSN Sequ	ence	
	8200:470,485	8200:460,465	8200:101,205,210,220
		435.225	8200:215,325,315,330
			350,360,370,380,410
			000,000,000,000

### **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	Credits	CLEP Equivalent
English Requirement 3300:111 English Composition I	3	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 3100:103 Natural Science Biology	<b>iy</b> 4	Clep subject examination in Biology. (Must receive minimum scale of 50 on the subject examination.)

# College Level Examination Program (CLEP), cont.

(CEEF), COIR.		
General Education Course	Credits	CLEP Equivalent
Natural Science Requirement, Chen	nistry	
3150:100 Chemistry and Society or	3	CLEP subject examination in General Chemistry. (Must receive a minimum
3150:151 Principles of Chemistry   or	4	scale of 50 on the subject examination.)
3150:129 Intro to General Organic and Biochemistry I	4	
Western Cultural Traditions Require	ement	
3400:210/211 Humanities in the		CLEP general examination in Humanities.
Western Tradition I/I	8	subject exam in Western Civilization I&II. (Must receive a minimum scale of 50 on each examination and receive passing score
		on the esssay portion of the examination.)
		NOTE: Essay will be arranged by instructor and will count for 50% of the test.
Mathematics Requirement		
3450:145 College Aigebra	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 coursework 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 Coordinator of Transfer and Articulation Services 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, health, and engineering technologies. The 2+2 program integrates 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. Successful completion of the Tech Prep associate degree programs will be recognized by a special certificate developed by the Ohio Board of Regents.

For additional information regarding Tech Prep programs, contact the advising offices in the Community and Technical College and Wayne College. Or, call Jan Eley, Coordinator of Tech Prep, at (330) 972-7026.

### **Tech Prep Post-Secondary Enrollment Option**

For Tech Prep students who are in high school, the entrance level grade-point average (GPA) for the Community and Technical College and Wayne Colle is 3.0 overall with the option that students may be admitted with a lower GPA. Approval for this process requires a written recommendation from the high school indicating that the student shows promise in the technical field he or she is pursuing in the Community and Technical College or Wayne College. Approval from the dean's office of the Community and Technical College and Wayne College is also required.

Tech Prep students who enroll in the post-secondary program will be limited to college coursework that directly relates to the technical field (i.e., only course-work in the Community and Technical College or Wayne College.

Students meeting the above requirements will be eligible for PSEO Option B.

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

This procedure should be followed:

- Obtain a post-secondary enrollment options Tech Prep identified application from the Office of Admissions, The University of Akron, Akron, OH 44325-2001.
- Complete and return the form with the guidance counselor's and parent's signatures along with the high school's recommendation to: Jan Eley, Coordinator of Tech Prep, Community and Technical College, The University of Akron, Akron, OH 44325-6501 OR to Bill Bailey, Assistant Dean, Director of Student Services, Wayne College, 1901 Smucker Road, Orville, OH 44667.
- Information regarding acceptance into the program, registration for classes, and academic advising will be forthcoming in the letter of admission to the post-secondary enrollment options program.

# **Transfer Credit**

Coursework 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. Each course will reflect the course number, title, grade, and credit value; no grade-point value will appear on the record and no grade-point average will be calculated for the coursework 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 listed, other than general studies, will apply toward the degree requirements at the University. This specification will be made at the time the student enters the degree-granting college. University College will specify which courses listed will apply toward the general education requirements when the student enters the University.

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 become 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.
- Earn 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 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.
- 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.
- 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.
- 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.
   Delailance uses
- 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

Degrees chantea		Min. Grade-
Buchtel College of Arts and Sciences	Min. Cr.	Point Avge. Req.
Bachelor of Arts	128	2.00
Bachelor of Science	128	2.00
Bachelor of Science (Chemistry) Bachelor of Science in Cytotechnology	128 128	2.30 2.00
Bachelor of Science in Geography/Cartography	128	2.00
Bachelor of Science in Labor Economics	128	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 in Geography/Travel and Tourism	128 128	2.00 2.20
Bachelor of Arts (Political Science) Bachelor of Science in Political Science/Public Policy Management	128	2.20
College of Engineering*		
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 Bachelor of Science in Mechanical Polymer Engineering	137 137	2.00 2.00
Bachelor of Construction Technology	137	2.00
•	137	2.00
College of Education**	100	2.50
Bachelor of Arts in Education Bachelor of Science in Education	128 128	2.50 2.50
Bachelor of Science in Education Bachelor of Science in Technical Education	128	2.50
College of Business Administration***	100	2.00
Bachelor of Science in Accounting	128 128	2.00 2.00
Bachelor of Science in Business Administration Bachelor of Science in Business Administration/Advertising	128	2.00
Bachelor of Science in Business Administration/Finance	128	2.00
Bachelor of Science in Business Administration/International Business	128	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	131	2.00
Art History	131	2.00
Bachelor of Fine Arts in Studio Art	131	2.00
Ceramics		
Drawing		
Graphic Design		
Metalsmithing Painting		
Photography		
Printmaking		
Sculpture		
Bachelor of Arts	128	2.00
Family and Child Development 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 2.00
Home Fumishings Track Fiber Arts Track	131 131	2.00
Bachelor of Science in Dietetics	137-142	2.00
Bachelor of Science in Home Economics Education	145-148	2.00
Bachelor of Arts in Interior Design	136	2.00
Bachelor of Arts in Music	131	2.00
Bachelor of Music Performance	128-144	2.00
History and Literature	133	2.00
Theory/Composition	133	2.00
Jazz Studies	135	2.00
Music Education	135-144	2.00
Bachelor of Arts in Communication <sup>†</sup>	128 128	2.00 2.00
Business and Organizational Communication <sup>T</sup> Interpersonal and Public <sup>†</sup>	128	2.00
Mass Media <sup>†</sup>	128	2.00
Bachelor of Arts in Speech-Language Pathology and Audiology	128	2.00
Bachelor of Arts in Social Work	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.

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

College of Fire and Applied Arts continued	Min. Cr.	Min. Grade- Point Avge. Reg.
College of Fine and Applied Arts, continued Bachelor of Arts in Theatre Arts	128	2.00
Bachelor of Arts in Dance	131	2.00
Bachelor of Fine Arts in Dance	132	2.00
College of Nursing	124	2.30
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) Associate of Technical Studies in:	64	2.00
Automotive Technology (ASSET)	64	2.00
Associate of Applied Business in:		
Business Management Technology	64	2.00
Commercial Art (Inactive)	64	2.00
Computer Programming Technology	64	2.00
Hospitality Management in: Restaurant Management	67	2.00
Culinary Arts	د 72	2.00
Hotel/Motel Management	68 '	2.00
Hospitality Marketing/Sales	64	2.00
Marketing and Sales Technology	64	2.00
Office Administration in: Administrative Assistant	66	2.00
Executive Secretarial (Inactive)	68	2.00
Office Information Management (Inactive)	67	2.00
Legal Secretarial	66	2.00
International Secretarial	70	2.00
Office Services Technology (inactive)	64 64	2.00 2.00
Real Estate (Inactive) Transportation	64 64	2.00
Associate of Applied Science in:	04	2.00
American Sign Language Interpreting and		
Transliterating Technology	74	2.00
Community Services Technology	64	2.00
Criminal Justice Technology	64 68	2.00 2.00
Drafting & Computer Drafting Technology Educational Technology	64	2.00
Electronic Engineering Technology	71	2.00
Eletromechanical Service Technology	64	2.00
Fire Protection Technology	64	2.00
Histologic Technology	64	2.00
Legal Assisting Technology Manufacturing Engineering Technology in:	70	2.00
Computer-Aided Manufacturing	64	2.00
Industrial Supervision	64	2.00
Mechanical Engineering Technology	68	2.00
Medical Assisting Technology	68	2.00
Polymer Technology Radiologic Technology	68 74	2.00 2.00
Respiratory Care	70	2.00
Surgical Assisting Technology in:		
Surgical Technologist	64	2.00
Surgeon's Assistant (inactive)	74	2.00
Surveying and Construction Engineering Technology in: Construction Option	69	2.00
Surveying Option	69	2.00
Bachelor of Science in		
Automated Manufacturing Engineering Technology	133	2.00
Bachelor of Science in Electronic Engineering Technology	139	2.00
Bachelor of Science in Mechanical Engineering Technology Bachelor of Science in Surveying and Mapping	137 137	2.00 2.00
	107	2.00
Wayne College		
Associate of Arts	64	2.00
Associate of Science Associate of Technical Studies	64 64	2.00 2.00
Associate of Applied Business in:	04	2.00
Business Management Technology in:		
Accounting Option	67	2.00
Data Management Option/Networking	67	2.00
Data Management Option/Software	69 64	2.00 2.00
General Business Option Sales and Services Option	68	2.00
Office Administration in:		
Executive Assistant Option	66	2.00
Legal Administrative Assistant Option	64	2.00
Health Care Administrative Assistant Option Associate of Applied Science in:	64	2.00
Environmental Health and Safety Technology	69	2.00
Computer Service and Network Technology	67	2.00
Social Services Technology	68	2.00

# **Graduation with Honors**

For a student who entered the University after December 1981 who is being awarded 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

For a student who entered the University after December 1981 who 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 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 grad <del>e p</del> oint average is
Summa Cum Laude	
Magna Cum Laude	ween 3.50 and 3.74
Cum Laude bei	ween 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	grad <del>e point</del>
	average is
with distinction	3.25 or higher

# Fees and Expenses

## Fees subject to change without notice

# Typical Annual 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. Typical costs for one year (September through May) based on an average academic load of 32 credits for the two semesters are as follows:

	Commuting Residents of Ohio	Residents of Ohio Living on Campus	Non-Ohio Residents*
Undergraduate Tuition			
and Fees (regular load)	\$3,625	\$3,625	\$9,393
Books/Supplies (average costs)	578	578	578
Room and Board	_	4,250†	4,250 <sup>†</sup>
	\$4,203	\$8,453	\$14,221

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 tution and fees is available to all students. For information, see page 52 of this Bulletin.

# **Tuition and Fees**

Tuitian

Undergraduate 1-11.5 credits 12-16 credits Over 16 credits	\$136.85 per credit \$1,641.20 per semester \$1,641.20 + \$136.85 per credit over 16
Tuition Surcharge:     (Nonresidents of Ohio pay the surcharge in	addition to the instructional fee)*
Undergraduate One or more credits	\$180.25 per credit
General Fee:	
Undergraduate	\$14.45 per credit to a maximum of \$171.50 per semester

# **Admission Application Fee**

(Nonrefundable)	
Undergraduate	\$25
Entering postbaccalaureate or graduate	\$25
(Note: fee deferred for recruited graduate minority students.)	
Transient students (first enrollment only)	\$25
International Students	\$50
Graduate Foreign Language Reading Proficiency Exam	\$50

## **Orientation Program Fees**

Traditional Freshman Program	
Student Commuting to Program	\$55
Student Staying in Residence Halls	\$65
Transfer Student and Non-Traditional Student Program	
One-day Program	\$30
Traditional Freshman Parents Program	
Two-day Program, Parent Staying in Residence Halls	\$55
Two-day Program, Parent Commuting	\$40
One-day Program, Parent attending one-day program	\$30
International Student Orientation Fee	\$45
Late Orientation Fee (in addition to Orientation Fee)	\$25

## **Other Registration and Related Fees**

Late Registration Fee Charged to student who has not completed registration and paid fees before close of open registration or by final date of payment	\$25
Delayed Registration Fee Assessed for any continuing student (enrolled immediately preceding regu semester) who registers other than during the time specified for his or her rank/level group.	\$10 Jar
Schedule Adjustment Fee Assessed for any schedule change form processed in person after an initial registration occurs for a particular term.	\$5
Transcripts First transcript requested Cost for any additional transcripts ordered at the same time Additional transcripts (excess of four) requested at same time Additional "Speedy" Transcript Fee Transcript Evaluation for Certification Fee	\$4 \$2 (each) \$2 \$10 \$15
Refunds Retainer Fee Charged on complete/partial withdrawal from courses (maximum of \$50)	\$5 / credit hour
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**

Advanced Placement Credit, per credit awarded	\$5	
Bypassed credit, per credit	\$5	
CLEP, per credit awarded	\$8 (plus ETS fee paid to ETS)	
Credit by Examination (undergraduate and postbaccalaureate)	per credit \$21	

# **Graduation Fees**

(nonrefundable)	
Each degree	\$30
except all RN/BSN/MSN recipients, who pay one single fee of \$30.	
Each Juris Doctor degree	\$40
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.

<sup>\*</sup> See The University of Akron Residency Requirements defining residency on page 57.

<sup>†</sup> Room and board rates vary by residence hall and selected board plan. For specific cost information, see Residence Halls in Section 2 of this Bulletin.

See The University of Akron Residency Requirements defining residency on page 57.

# **Miscellaneous Fees**

Art	D	e	pa	rt	ment	Char	ge

Material usage charged for the purchase of art materials retained by the student that are too heavy, too large, or too dirty to be handled by the Bookstore At cost Center for Child Development (Child care facility)

Registration:	
Academic year	\$30
Summer session Both summer sessions	\$10 \$15
Insurance:	\$15
Child, per academic year	\$20
Child, per summer (all ages)	\$12
Enrollment: Full time, per week (after 45 hours, charged hourly)	\$95
Hourly for fewer than 15 hours per week for faculty/sta	
Hourly for UA student families only	\$2.75
Hourly for 15 hours or more per week for faculty/staff	
-	\$2.75 (\$5 for subsequent changes)
Center for Nursing Initial Comprehensive Bio/Psycho/Social History	\$15
Individual 50-minute Sessions (1/4, 1/2, and extended s	
Group Sessions (per session, per member)	\$20
Family Sessions (three or more persons)	\$60
Couple Sessions (per session) Special Services	\$50
Percent Body Fat Testing	\$10
Lipid profile cholestech LDX; total cholesterol, HDL,	
and triglycerides Profile	\$15 \$12
Total cholesterol, cholestech LDX, LDL and HDL Massage therapy by licensed masso therapist	\$12
15 minutes	\$10
30 minutes	\$20
50 minutes Minimum Fee	\$40 \$2
College of Education, Department of Physical and Heat	
Fitness Assessment Package	an Education
UA Students	\$15
Faculty/Staff/Community	\$20
Special Fitness Services	<b>*</b> 45
Exercise prescription Hydrostatic weight	\$15 \$25
BIA	\$5
Skinfold	\$5
Bod Pod EKG Stress Test	\$25 \$60
VO2 Max Test	\$60
College of Engineering	
Full-time Undergraduate Students (per semester)	\$150
Full-time Graduate Students (per semester)	\$200
Counseling, Testing and Career Canter	
ACT Test	\$25
College Level Placement Exam Program (CLEP) Correspondence Testing	\$8 (plus ETS fee paid to ETS) \$12/hr
Miller Analogies Test	\$40
Professional Consultation Fee per hour	\$80
Dance Institute	
Audition Fee	\$17
New Student Registration fee Refund Service Charge	\$10 \$25
Academic Year (three sessions)	420
Advanced	\$2,590
Intermediate II	\$2,500
Intermediate I Advanced Beginner	\$1,582 \$1,187
Beginner	\$593
Pre-Ballet	\$298
Adults - All classes	\$288
Summer (four weeks) Intermediate I (1, 2, 3, or 4 weeks)	\$151, \$275, \$397, or \$499
Intermediate II (1, 2, 3, or 4 weeks)	\$182, \$337, \$\$490, or \$624
Advanced (1, 2, 3, or 4 weeks)	\$200, \$373, \$545, or \$697
Advanced beginner (1, 2, 3, or 4 weeks) Beginner (1, 2, 3, or 4 weeks)	\$68, \$136, \$204 or \$272 \$48.75, \$97.50, \$146.25, or \$195
Pre-schoolers	\$51
Adults - beginners to intermediate I-II (all classes for 6 v	wees) \$54
English Language Institute	
Tuition fee, semester	\$2,900
8-week summer program Application Fee	\$1,630 \$40
Materials fee, per level, per semester/8-week session	\$50/40
Health Services	
Allergy injections (subsequent injections are \$1)	\$5
Laboratory Tests	At Cost
Prescriptions and Medications Immunizations	At Cost At Cost
I.D., replacement	\$5
"Insufficient Funds" or returned check charge and VIS/	
Returns for Insufficient Funds	\$20

International Programs	
Optional ID cards, students Optional Id cards, teachers	\$19 \$20
Laboratory breakage and late service deposit (refundable)	\$20 \$15
Liability Insurance Fee, Student Nursing	\$15
Liability Insurance Fee, Allied Health Technology/Surgeon's A	
Liability Insurance Fee, Allied Health Technology/Other than t	Surgeon's Assistant \$15
Library Fees Overdue materials (plus \$1 fee if invoiced)	
UA students, faculty and staff (\$10 maximum)	.10/day
Non-University borrowers (\$10 maximum) Replacement	.25/day Cost plus \$20 surcharge
Fines for recalled materials	\$1/day
Fines for hourly reserve materials Fines for daily reserve materials	\$.50/hour (\$20 max.) \$1/day (\$20 max.)
Fines for OhioLINK loans	\$.50/day (\$15 max.)
Photocopy (per copy, depending on machine used)	up tp .10/pg.
Microcopy (per copy, depending on machine used) Research Service (1-hour minimum charged)	.1030
UA students, faculty and staff	At cost
Others Computer-Based Search Service (\$5 minimum, no refunds)	\$60/hour, plus costs
UA students, faculty and staff	At cost
Others	\$25/hour plus costs \$10
Locker fee (\$3 refundable fall-spring semesters) Locker fee (\$3 refundable, spring semester only)	\$7
Locker fee, physical education and Schrank Hall (\$3 refundable	
Ocasek Natatorium	
Group Rental Fees University aroups during open building hours	No charge
exclusive or special use (per employee, per hour)	\$8.50/hr
Swimming lessons Infant and Preschool (8 one-half hour sessi All other swimming lessons (8 one-half hour sessions)	ons) \$30 \$25
Raquetball and Walleyball Courts	
University groups during normal working hours Outside of normal working hours, per hour, per court	No charge \$5
Broken raquet replacement	\$30
Broken eyewear replacement Kayaking Usage Fee ( for those not enrolled in UA kayaking cla	\$10 ss)
Single use guest pass	\$3
10-use guest pass	\$20
Placement Services Mailing of professional credentials prepared and maintained	
by Placement Office for students and alumni to prospective e Resume Xpert-Plus software	mployers. \$4 \$20
Registration Fee for alumni (covers 12-month cost of employe	
Vacancy Bulletin subscription for alumni (12 issues)	\$25 \$15
Alumni Workshop Police Service Calls (for vehicle assistance)	\$10
Police Report	
Per report (as of 1/25/95) Fingerprinting	no charge \$5
Audiology and Speech Canter	ΨŲ
Speech and Language Services	¢5
Minimum Fee Speech/Language Screening	\$5 \$15
Therapy (per 1/2-hour session)	\$20
Special Testing (per hour) SLP Evaluation	\$60 \$100
SLP consulation (per hour)	\$60 \$15
Group Therapy (per 1/2 hour) Augmentative Device Evaluation	\$125
Audiological Services	-
Minimum Fee Hearing Screening (per person)	<b>\$</b> 5 \$15
Special Testing (per hour)	\$60
Audiological Rehabilitation (per 1/2-hour session) Audiologic Evaluation	\$30 \$55
Earmold Service (swim plugs, ear molds)	\$20
(for indirect earmold orders add cost of mold) Audiologic Consultation	\$60
Immitance Only (per 1/2 hour)	\$20
Hearing aid service (per 1/2 hour) Brain Stem Evoked Potential	\$25 \$225
Assistive Listening Devices Evaluation (per 1/2 hour)	\$20
Otoacoustic Emissions Cerumen Management (per visit)	\$25 \$25
Hearing Aid Evaluation (no purchase)	\$60
Hearing Aid Evaluation (with purchase) (selection/fitting and orientation, includes 2-week check,	\$200 1 trouble-shotting visit}
Storage Drawer Rental for Mechanical Technology (\$2 refunda	
Transcript evaluation for Teaching Certification Fee	\$15
UASC/Continuing Education (based on number of Continuing E One CEU (10.0 contact hours)	ducation Units, or CEUs.) \$35-\$400
Transcript fee, first print	\$4
Each additional copy Each duplicate of certificate of completion	\$2 \$4
Each addinate or certificate or completion	<b>5</b> 4

# **Parking Fees**

a	
Student enrolled for 5 or more credits per semester	\$60
Student enrolled for less than 5 credits per semester	\$60
Summer session student, per session	\$25.50
Workshop participant	\$1.50 per day up to \$16 max
Temporary Permit (per day)	\$1.50
Conference participant, per day	\$1.50
Commercial visitor, per semester	\$65.75
per summer	\$40
Replacement parking permit service charge	\$5
Special University event parking, per event	\$3
Special non-Univ. event parking, per event	Up to \$5
Visiting Parking:	
meter, per hour	\$.25
pre-arranged permitfor one day	\$1.50
Lot A, per quarter hour (\$3 max)	\$.25
Motorcycle if purchased in conjunction with regular vehicle	
per semester	\$4
per summer session	\$4
Motorcycle if purchased as sole vehicle permit:	\$25
per semester	\$23
per summer session	310
arking Fines:	
For most infractions (Sections (J) (1) (A) through (J) (1) (K) o	f the Parking Regulations)
If paid within 5 University business days	S
If paid thereafter	\$\$
Parking in handicapped space or blocking a handicap ramp	\$50
Parking in a fire lane or blocking a drive, doorway, sidewalk	or vehicle \$20
For displaying a false, altered, or forged permit	\$50
Boot Fee	\$20

### **Course Materials, Computing Fees\***

For the following undergraduate courses, the fee noted will be assessed to cover the cost of instructional materials distributed by the instructor and computing fees:

### **Community and Technical College**

Course	and realized concept		Course
Number	Course Title	Credits	Fee
2020:222	Technical Report Writing	3	\$10
2020:224	Writing for Advertising	4	\$15
2030:161	Math for Modern Technology	4	\$5
2030:345	Basic Techniques for Data Analysis	2	\$5
2210:111	Intro to Sign, Deafness, and Interpreting Services	3	\$15
2210:112	American Sign Language I	4	\$15
2210:114	ASL Semantics and Structure	3	\$15
2210:122	American Sign Language II	4	\$15
2210:124	ASL Semantics and Structure	3	\$15
2210:126	Advanced Fingerspelling and Numbers	2	\$15
2210:128	Profession of Interpreting	3	\$15
2210:232	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
2210:246	Interpreter in Educational Setting	3	\$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	\$20
2220:291	Special Topics: Criminal Justice	1-4	\$50
2220 293	Special Topics: Criminal Justice	1-4	\$30
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 i	3	\$15
2230:206	Fire Detection and Suppression Systems II	3	\$15
2230:250	Hazardous Materials	4	\$25
2240:124	Design in Commercial Art	3	\$10
2240:130	Marker Rendering	3	\$5
2240:140	Typography and Lettering	3	\$10
2240:242	Adventising Layout Design	3	\$25
2240:245	Designing for Production	3	\$25
2240:247	Packaging Design	3	\$25
2240:248	Publication Design	3	\$25
2240:250	Advanced Commercial Photography	3	\$25
2240:252	Professional Photographic Practicum	3	\$25
2240:290	ST: Beginning Typesetting	1-3	\$25
2260:100	Introduction to Community Service	3	\$4
2260:150	Introduction to Gerontological Services	3	\$6
2260:260	Alcohol Use and Abuse	3	\$2
2260:261	Alcoholism Treatment	3	\$ <del>6</del>
Course			Course
Number	Course Title	Credits	Fee
		-	

**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.

2260:262	Basic Helping Skills in Alcohol Problems	4	\$3
2260:263	Group Principles in Alcoholism	4	\$6
2260:278	Techniques of Community Work	4	\$7
2280:121	Fundamentals of Food Preparation I	4	\$70
2280:122	Fundamentals of Food Preparation #	4	\$70
2280:123	Meat Technology	2	\$55
2280:230	Advanced Food Preparation	4	\$70
2280:232	Dining Room Service and Training	2	\$15
2280:233	Restaurant Operations and Management	4	\$45
2280:261	Baking and Classical Desserts	3	\$70
2280:262	Classical Cuisine	3	\$55
2280:263	International Foods	2	\$50
2290:104	Basic Legal Research and Writing	3	\$30
		3	\$30
2290:204	Advanced Legal Research		
2300:122	Introduction to Commercial Photography	3	\$25
2300:160	Portrait/Fashion Photography	3	\$25
2300:170	Illustration/Advertising Photography	3	\$25
2300:230	Multi-Image Production	3	\$25
2300:250	Advanced Commercial Photography	3	\$25
2300:260	Professional Photographic Practices	3	\$25
2420:170	Business Mathematics	3	\$5
2420:212	Basic Accounting II	3	\$5
2420:213	Basic Accounting III	3	\$10
2420:217	Survey of Taxation	4	\$10
2440:120	Computer and Software Fundamentals	2	\$18
2240:121	Introduction to Programming Logic	2	\$5
2440:125	LOTUS 1-2-3	2	\$18
2440:120	BASIC Programming for Business	3	\$18
		2	\$8
2440:131	Introduction to Programming		
2440:132	Assembler Programming	2-3	\$8
2440:133	Structured Cobol Programming	2-3	\$12
2440:125	Spreadsheet Software	2	\$18
2440:151	PC DOS Fundamentals	1	\$6
2440:220	Software Application for Business	2	\$12
2440:230	Visual Basic	3	\$18
2440:234	Advanced Cobol Programming	3	\$12
2440:235	Current Programming Topics	2	\$8
2440:239	RPG II/III Programming	2	\$8
2440:243	Information Center Practicum	3	\$5
2440:245	Introduction: Database for Micros	3	\$18
2440:247	Microcomputer Hardware and Software Selection	3	\$12
2440:251	Computer Applications Projects	5	\$22
	Job Control Language	2	\$8
2440:252		2	\$120
2440:255	Introduction to Network Administration		
2440:261	CICS Customer Information Control System	3	\$12
2440:263	Database Concepts	3	\$12
2440:267	4GL for Micros	3	\$18
2440:269	C Programming and UNIX	2	\$12
2440:270	Network Management I	4	\$100
2440:272	Network Technologies	2	\$10
2440:273	Network Printing	2	\$50
2440:274	Network Service and Support	4	\$100
2440:275	TCP/IP Fundamentals	2	\$50
2440:276	Network Management II	4	\$100
2440:278	Network Directory Design and Implementation	2	\$10
2440:299	Workshop: Computer Programming	1-5	\$10
2520:221	AAF Ad Campaign I	2	\$5
2520:222	AAF Ad Campaign II	2	\$5
2540:120		1	\$10
2540:120	Keyboarding Skill Development	4	\$20
	Introduction to Office Automation		
2540:140	Keyboarding for Non-Majors	2	\$20
2540:141	WordPerfect, Beginning	2	\$20
2540:150	Beginning Keyboarding	3	\$20
2540:151	Intermediate Word Processing	3	\$20
2540:241	Information Management	3	\$20
2540:253	Advanced Word Processing	3	\$20
2540:255	Legal Office Procedure I	3	\$20
2540:270	Office Software Applications	4	\$20
2540:271	Desktop Publishing	3	\$20
2540:279	Legal Office Procedures II	4	\$20
2540:281	Edit/Proofread/Transcription	2-3	\$20
2540:290	Special Topics: Office Administration	.5-3	\$20
2560:222	Microcomputer Applications in Transportation	3	\$5
2560:231	Computer Reservations I	2	\$25
2560:232	Computer Reservations I	2	\$25
2560:290	ST: Travel Agency Procedures	1-3	\$10
2600:125	Digital Electronics for Technicians	4	\$10
2600:230	Microprocedure and Digital Technology	4	\$10 \$10
2600:275	Digital Data Communication	4	\$10
2730:225	Histotechnology Practicum	5	\$15
2740:135	Medical Assisting Techniques I	4	\$28
2740:235	Medical Assisting Techniques II	4	\$50
2740:240	Medical Machine Transcription	3	\$28
2770:121	Surgical Assisting Procedures I	2	\$40
2770:131	Clinical Application I	2	\$15
2770:151	Clinical Experience I	2	\$61.50
2770:254	Clinical Experience IV	3	\$61.50
2790:121	Introduction to Respiratory Care	3	\$35
2790:122	Respiratory Patient Care	3	\$35
2790:123	Mechanical Ventilators	3	\$35

Course	A	Que d'és	Course	Course	Gradita	Course
Number 2790:131	Course Title	Credits	Fee	Number Course Title	Credits	Fee
2790:131	Clinical Application I Clinical Application IV	3 5	\$15 \$15	Buchtel College of Arts and Sciences		
2790:223	Advanced Respiratory Care	3	\$35	3010:201 Society and the Environment	2	\$5
2800:200	Physics for Environmental Technology	3	\$25	3010:401 Seminar: Environmental Studies	2	\$5
2800:210	Technical Computations	1	\$25	3100:100 Nature Study Plants	3	\$5 \$5
2800:230	Water and Atmospheric Pollution	3	\$25	3100:101 Nature Study Animals 3100:103 Natural Science: Biology	3 4	\$5 \$10
2800:232	Environmental Sampling Lab	2-3	\$25	3100:103 Introduction to Ecology Laboratory	1	\$5
2820:105	Basic Chemistry	3	\$25	3100:111 Principles of Biology	4	\$20
2820:110	Physical Science for Technicians	3	\$10	3100:112 Principles of Biology II	4	\$20
2820:111	Introductory Chemistry	3	\$15	3100:130 Principles of Microbiology	3	\$25
2820:112	Introductory and Analytical Chemistry	3	\$15	3100:208 Human Anatomy and Physiology	4	\$15
2820:121	Technical Computations	1	\$5	3100:209 Human Anatomy and Physiology	4	\$15
2820:161	Technical Physics: Mechanics I	2	\$15	3100:212 Genetics Laboratory	1	\$15
2820:162	Technical Physics: Mechanics II	2	\$15 \$10	3100:264 Anatomy and Physiology of Speech and Hearing	3	\$15
2820:163 2820:164	Technical Physics: Electricity and Magnetism Technical Physics: Heat and Light	2 4	\$10 \$10	3100:265 Introductory Human Physiology	4	\$15
2820:310	FORTRAN for Technologists	2	\$10	3100:331 Microbiology	4	\$50
2830:110	Electromechanical Devices	4	\$5	3100:342 Flora and Taxonomy	3	\$10
2830:130	Introduction to Hydraulics and Pneumatics	3	\$5	3100:365 Histology I	3 3	\$15 \$20
2830:210	Motion Control I	4	\$5	3100:366 Histology II	2	\$20 \$10
2830:220	Motion Control II	3	\$5	3100:400 Food PLants 3100:421 Tropical Field Biology	4	\$10 \$175
2830:230	Machine and Process Control	4	\$5	3100:422 Conservation of Biological Resources	4	\$5
2830:240	Industrial Computer Control	3	\$5	3100:424 Freshwater Ecology	3	\$15
2830:250	Programmable Controllers	3	\$10	3100:426 Applied Aquatic Ecology	4	\$15
2830:260	Electrical Power and Wiring	3	\$5	3100:433 Pathogenic Bacteriology	4	\$50
2830:270	Troubleshooting and Repair	3	\$10	3100:435 Virology	4	\$50
2840:112	Polymer Technology II	3	\$25	3100:437 Immunology	4	\$50
2840:202	Instrumental Methods	3	\$25	3100:440 Mycology	4	\$15
2840:211	Polymer Technology III Compounding Methods	3 2	\$25 \$25	3100:441 Plant Development	4	\$15
2840:260 2840:270	Natural and Synthetic Organic Polymers	4	\$25 \$15	3100:442 Plant Anatomy	3	\$15
2840.270	Basic Electricity and Electronics	4	\$20	3100:443 Phycology	4	\$15
2860:120	DC Circuits	4	\$20	3100:445 Plant Morphology	4	\$15
2860:122	AC Circuits	3	\$20	3100:447 Plant Physiology	3	\$15
2860:123	Electronic Devices	3	\$20	3100:448 Economic Botany 3100:451 General Entomology	2.4	\$5 \$10
2860:225	Electronic Device Applications	4	\$20	3100:451 General Entomology 3100:453 Invertebrate Zoology	4	\$25
2860:227	Measurements	2	\$20	3100:454 Parasitology	4	\$15
2860:231	Control Principles	3	\$20	3100:456 Omithology	4	\$15
2860:237	Digital Circuits	4	\$20	3100:458 Vertebrate Zoology	4	\$10
2860:238	Microprocessor Fundamentals	4	\$20	3100:461 Human Physiology	4	\$25
2860:242	Machinery and Controls	4	\$20	3100:462 Human Physiology	4	\$25
2860:251	Communications Circuits	3	\$20	3100:464 General and Comparative Physiology	4	\$50
2860:255	Electronic Design and Construction	2 2	\$40 \$5	3100:466 Vertebrate Embryology	4	\$30
2860:260 2860:270	Electronic Project Survey of Electronics I	2	\$0 \$20	3100:467 Comp. Vertebrate Morphology	4	\$25
2860:270	Survey of Electronics I	3	\$20	3100:480 Molecular Biology	3	\$15
2860:352	Microprocessor Systems	4	\$20	3100:494 Workshop: Basic Cell Tech and Res	1-3	\$10
2860:400	Computer Simulations in Technology	3	\$20	3100:494 Workshop: Molecular Biology High School Teaching	1-3	\$15
2860:453	Control Systems	4	\$20	3100:494 Workshop: Radiation Safety Instr and Comp	1-3 1-3	\$10 \$175
2870:311	Computer Aided Drafting II	2	\$10	3100:494 Workshop: Tropical Biology-Jamaica 3100:495 ST: Principles of LT Microscopy	1-3	\$40
2870:470	Simulation of Manufaturing Systems	2	\$10	3150:110/111 Introduction to General, Organic and Biochemistry/La		\$25
2880:130	Work Meas. and Cost Est.	3	\$5	3150:112/113 Introduction to General, Organic and Biochemistry/La		\$30
2880:201	Robotics and Automated Manufacturing	3	\$10	3150:151/152 Principles of Chemistry I/Lab	4	\$30
2880:241	Introduction to Quality Assurance	3	\$5	3150:153 Principles of Chemistry II	3	\$5
2900:121	Fundamentals of Instrumentation	4	\$10	3150:154 Qualitative Analysis	2	\$15
2900:232	Process Control	3	\$10	3150:201 Organic Chemistry and Biochemistry I	4	\$25
2900:239	Pulse Circuit Testing	3	\$10	3150:202 Organic Chemistry and Biochemistry II	4	\$25
2920:130	Intro to Hydro and Pneum	3	\$15	3150:265 Organic Chemistry Laboratory I	2	\$25
2920:142 2920:245	Introduction to Materials Technology Mechanical Design II	3 5	\$20 \$20	3150:266 Organic Chemistry Laboratory II	2	\$25
2920:245	Technology of Machine Tools	3	\$30	3150:380 Advanced Chemistry Lab I	2	\$25
2920:252	Thermo-Fluids Lab	1	\$15	3150:381 Advanced Chemistry Lab II	2	\$25
2920:339	Advanced Technology of Machine Tools	2	\$10	3150:480 Analytical Chemistry Laboratory III 3150:481 Advanced Chemistry Lab IV	2 2	\$30 \$30
2920:346	Mechanical Design III	4	\$20	3250:426 Econometric Methods and Applications	2	\$30 \$10
2920:348	Computer Numerical Control Programming I	3	\$20	3250:420 Economic Forecasting	3	\$10
2920:405	Introduction to Industrial Machine Control	3	\$10	3300:111 English Composition I-	4	\$15
2920:448	Computer Numerical Control Programming II	3	\$20	3300:112 English Composition II-	3	\$15
2920:470	Plastics Processing and Testing	2	\$20	3300:278 Introduction to Fiction Writing	3	\$15
2940:121	Technical Drawing I	3	\$10	3300:283 Film Appreciation	3	\$20
2940:122	Technical Drawing II	3	\$20	3300:378 Advanced Fiction Writing	3	\$15
2940:170	Surveying Drafting	3	\$20	3300:380 Film Criticism	3	\$20
2940:210	Computer-Aided Drawing I	3 3	\$40 \$40	3350:305 Maps and Map Reading	3	\$10
2940:211 2940:250	Computer-Aided Drawing II Architectural Drafting	3	\$40 \$20	3350:310 Physical and Environmental Geography	3	\$10
2980:122	Basic Surveying	3	\$15	3350:314 Climatology	3	\$10 \$10
2980:122	Surveying Field Practice	2	\$25	3350:340 Cartography	3	\$10 \$5
2980:222	Construction Surveying	3	\$20	3350:350 Geography of the U.S. and Canada 3350:351 Objo: Environment and Society	3 3	\$5 \$5
2980:225	Advanced Surveying	4	\$20	3350:351 Ohio: Environment and Society 3350:353 Latin America	3	າ \$5
2980:226	Subdivision Design	2	\$20	3350:353 Latin America 3350:356 Europe	3	\$5 \$5
2980:237	Materials Testing I	2	\$15	3350:358 Russia and Associated States	3	\$5
2980:238	Materials Testing II	2	\$15	3350:360 Asia	3	\$5
2980:245	Cost Analysis and Estimating	3	\$15	3350:363 Africa South of the Sahara	3	\$5
2980:250	Structural Drafting	2	\$15	3350:403 Comp. Appl. in Geography and Planning	3	\$10
				3350:405 Geographic Information Systems	3	\$10
		station basis	in alteria	3350:407 Advanced Geographic Information Systems	3	\$10 \$10
	workshops and special topics courses offered on a r			3350:436 Urban Land Use Analysis 3350:442 Thematic Cartography	3 3	\$10 \$10
fees not listed h those classes.	ere. Consult appropriate department for course mate	mai and computil	ng tees tor	3350:442 I hematic Cartography 3350:444 Apps, in Cartography and Geographic Info. Systems	3	\$10
01030 0103063.						

Course	Course Title	Credits	Course Fee	Course Number	Course Title	Credits	Course Fee
Number							\$25
3350:447	Introduction to Remote Sensing	3 3	\$10 \$10	3460:406 3460:408	Intro to C and UNIX Windows for Programming	3 3	\$25 \$25
3350:448 3350:449	Advanced Cartography Advanced Remote Sensing	3 3	\$10 \$10	3460:408	Introduction Discrete Structures	3	\$25 \$15
3350:449	ST: Geography	3 1-3	\$5	3460:420	Structured Programming	3	\$20
3350:490	Workshop: Creat. Geog. Res., K-12	1-3	\$25	3460:421	Introduction to Object-Oriented Programming	3	\$20
3350:490	Workshop: Field Trips for Educators	1-3	\$10	3460:426	Operating Systems	3	\$25
3350:495	Soil and Water Field Studies	3	\$10	3460:428	UNIX System Programming	3	\$25
3370:100	Earth Science	3	\$5	3460:430	Theory Programming Languages	3	\$25
3370:101	Introductory Physical Geology	4	\$10	3460:435	Analysis of Algorithms	3	\$15
3370:102	Introductory Historical Geology	4	\$10	3460:440	Compiler Design	3	\$25
3370:121	Dinosaurs	1	\$5	3460:455	Data Communications and Computer Networks	3	\$25
3370:122	Mass Extinctions-Geology	1	\$5	3460:457	Computer Graphics	3	\$25
3370.123 3370:124	Interpreting Earth's Geologic History Plate Tectonics: The New Geology	1	\$5 \$5	3460:460	Artificial Intelligence and Heuristic Programming	3 3	\$25 \$15
3370:124	Earthquakes: Why, Where, and When	1	ຈວ \$5	3460:465 3460:467	Computer Organization Microprocessor Programming and Interfacing	3	\$25
3370:125	Natural Disasters and Geology	1	\$5 \$5	3460:470	Automata, Computability, and Formal Languages	3	\$25 \$15
3370:127	The Ice Age and Ohio	1	\$5 \$5	3460:475	Data-Base Management	3	\$15
3370:128	Geology of Ohio	1	\$5	3460:489	ST: Computer Science	1-3	\$25
3370:129	Medical Geology	1	\$5	3470:260	Basic Statistics	3	\$25
3370:130	Geologic Record — Climate Change	1	\$5	3470:261	Introductory Statistics I	2	\$10
3370:131	Geology and Society	1	\$5	3470:262	Introductory Statistics !!	2	\$10
3370:132	Gemstones and Precious Metals	1	\$5	3470:280	Introduction to Statistical Computing	2	\$10
3370:133	Caves and Reefs	1	\$5	3470:461	Applied Statistics I	4	\$10
3370:134	Hazardous and Nuclear Waste Disposal	1	\$5 ©5	3470:462	Applied Statistics II	4	\$10
3370:135 3370:136	Geology of Energy Resources Earth's Oceans	1	\$5 \$5	3470:480 3500:101	Statistical Computer Applications	3 4	\$15 \$10
3370:130	Earth's Atmosphere and Weather	1	\$5 \$5	3500:101	Beginning Japanese I Beginning Swahili F	4	\$10
3370:138	Planetary Geology	1	\$5 \$5	3500:101	Beginning Japanese II	4	\$10
3370:200	Environmental Geology	3	\$5 \$5	3500:102	Beginning Swahili II	4	\$10
3370:202	Geology of National Parks	3	\$10	3500:201	Intermediate Japanese I	3	\$10
3370:230	Crystallography and Non-Silicate Mineralogy	3	\$15	3520:101	Beginning French I	4	\$10
3370:231	Silicate Mineralogy and Petrology	3	\$15	3520:102	Beginning French II	4	\$10
3370:271	Oceanography	3	\$10	3520:201	Intermediate French I	3	\$10
3370:301	Engineering Geology	3	\$15	3520:315	French Phonetics	3	\$10
3370:310	Geomorphology	3	\$15	3530:101	Beginning German I	4	\$10
3370:324	Sedimentation and Stratigraphy	4	\$25 \$25	3530:102	Beginning German II	4	\$10
3370:350 3370:360	Structural Geology	4 4	\$25 \$25	3530:201 3550:101	Intermediate German I Reginaria Italian I	3 4	\$10 \$10
3370:300	Introductory Invertebrate Paleontology Archaeological Geology	4	\$25 \$15	3550:101	Beginning Italian I Beginning Italian II	4	\$10
3370:410	Regional Geology of North America	3	\$25	3550:201	intermediate Italian I	3	\$10
3370:411	Glacial Geology	3	\$25	3570:101	Beginning Russian I	4	\$10
3370:421	Coastal Geology	3	\$25	3570:102	Beginning Russian II	4	\$10
3370:425	Advanced Stratigraphy	3	\$25	3570:201	Intermediate Russian I	3	\$10
3370:432	Optical Mineralogy and Introductory Petrography	3	\$25	3580:101	Beginning Spanish I	4	\$10
3370:433	Advanced Petrography	3	\$25	3580:102	Beginning Spanish II	4	\$10
3370:435	Petroleum Geology	3	\$25	3580:201	Intermediate Spanish I	3	\$10
3370:436	Coal Geology	3	\$25	3650:261	Physics for Life Sciences I	4	\$20
3370:437		3	\$25 \$15	3650:262	Physics for Life Sciences II	4	\$20
3370:441 3370:446	Fundamentals of Geophysics Exploration Geophysics	3 3	\$15 \$15	3650:291 3650:292	Elementary Classical Physics I Elementary Classical Physics II	4 4	\$20 \$20
3370:440	Advanced Structural Geology	3	\$25	3650:310	Electronics	3	\$20 \$20
3370:462	Advanced Paleontology	3	\$25	3650:322	Intermediate Lab I	2	\$25
3370:463	Micropaleontology	3	\$25	3650:323	Intermediate Lab II	2	\$25
3370:470	Geochemistry	3	\$25	3650:451	Advanced Laboratory I	2	\$25
3370:472	Stable Isotope Geochemistry	3	\$25	3650:452	Advanced Laboratory II	2	\$25
3370:474	Groundwater Hydrology	3	\$25	3650:468	Digital Data Acquisition	3	\$20
3370:481	Analytical Methods in Geology	2	\$10	3700:201	Introduction to Political Research	3	\$10
3370:484	Geoscience Information Acquisition and Management	1	\$5	3700.301	Advanced Political Research	3	\$10
3450:208	Introduction to Discrete Mathematics	4	\$5	3700:370	Public Administration: Concepts and Practices	4	\$10
3450:221	Analytical Geometry and Calculus I-Honors	4	\$5 ©5	3700:440	Survey Research Methods	3	\$10
3450:222 3450:289	Analytical Geometry and Calculus II-Honors ST: Analytical Geometry and Calculus III Lab	4 1-3	\$5 \$5	3700:442	Methods of Policy Analysis	3 4	\$10 ©15
3450:289	Introduction Numerical Analysis	3	\$5 \$10	3750:110 3750:220	Quantitative Methods in Psychology Introduction: Experimental Psychology	4	\$15 \$15
3450:427	Numerical Linear Algebra	3	\$10	3750:446	Research Des and Analysis	4	\$15
3450:429	Numerical Solutions: Ordinary Differential Equations	3	\$5	3850:301	Methods of Social Research i	3	\$10 \$10
3450:430	Numerical Solutions for Partial Differential Equations	3	\$5	3850:302	Methods of Social Research II	3	\$10
3450:435	Systems of Ordinary Differential Equations	3	\$10	0-11			
3450:489	T:Math Software Sciences Comp	1-3	\$15	College of E			
3460:125	Descriptive Computer Science	2	\$15		graduate students who have declared an engineering m		
3460:126	Introduction Basic Programming	3	\$20		ing semesters. This includes students who are enrolled		
3460:201	Introduction Fortran Programming	3	\$15		well as students in University College who have declare		
3460:202	Introduction Cobol Programming	3	\$15 \$15		ased upon the number of credit hours, taken, will be cha	arged to all part	-time under-
3460:205 3460:206	Introduction Pascal Programming Introduction to C Programming	3 3	\$15 \$20		eering students.		
3460:208	Introduction to C ++	3	\$20 \$20	=	vidual undergraduate course fees within the college are		
3460:209	Introduction Computer Science	4	\$20	4300:314	Geotechnical Engineering	3	\$50
3460:210	Data Structures and Algorithms I	4	\$20 \$20	4300:323	Water Supply and Pollution Control	4	\$50 \$50
3460:302	Programming Applications with Cobol	3	\$15	4300:341	Hydraulic Engineering	3	\$50 \$50
3460:306	Assembly Language Programming	3	\$20	4300:361 4300:380	Transportation Engineering Engineering Materials Lab	3 2	\$50 \$50
3460:307	Applied Systems Programming	3	\$20	4300:380	Engineering Materials Lab Steel Design	2 3	\$50 \$50
3460:316	Data Structures and Algorithms II	3	\$20	4300:401	Reinforced Concrete Design	3	\$50
3460:330	Survey of Programming Languages	3	\$25 \$25	4300:418	Soil and Rock Exploration	3	\$50
3460:401	Fundamentals of Data Structures	3	\$25	4300.423	Chemistry for Evironmental Engineers	3	\$50
				4300:448	Hydraulics Lab	1	\$50
Note: Additions	al workshops and special topics courses offered on a rotatic	n hasis ma	/ include	4300:468	Highway Materials	3	\$50
	are Consult appropriate department for course material a			4300:482	Special Projects	1-3	\$50

**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			Course	Course			Course
Number	Course Title	Credits	Fee	Number	Course Title	Credits	Course Fee
0	· · · · · · · · · ·			5550:490	Workshop: Nurture Success Children	1-3	\$5
College of E				5550:490	Workshop: Tai Chi and Stress Reduction	1-3	\$3
5050:210 5050:211	Characteristics of Learners	3 3	\$10	5550:490	Workshop: Violence Prevention Strategies	1-3	\$5
5050:211	Teaching Learning Strategies Instructional Design	3 3	\$10 \$10	5550:490 5550:490	Workshop: Classroom Problems	1-3 1-3	\$5 \$5
5050:310	Instructional Resources	3	\$35	5550:490	Workshop: Legal Update - Educators Workshop: Maximizing Athletic Performance	1-3	\$5 \$5
5050:320	Diversity in Learners	3	\$10	5550:490	Workshop: Coaching Effect	1-3	\$10
5050:330	Classroom Management	3	\$10	5550:490	Workshop: Co-op/Creative Thinking	1-3	\$10
5050:410	Professional Issues in Educations	3	\$10	5550:490	Workshop: Current Concepts in Strength Training	1-3	\$5
5100:211	Fundamental Education Computer Skills	1	\$10	5550:490	Workshop: Dev. Successful Child I	1-3	\$6
5100:412 5100:420	Design & Production of Instructional Materials Introduction to Computer-Based Education	3 3	\$35 \$35	5550:490 5550:490	Workshop: Easing Stress: CH/TCH I	1-3 1-3	\$6 \$6
5100:480	ST: Educational Media Technology	1-4	\$35	5550:490	Workshop: Education for Healthy Heart Workshop: Education Healthy Heart	1-3	ъо \$6
5100:490	Workshop: Motivation for Educators	1-3	\$35	5550:490	Workshop: Encourage At-Risk Child	1-3	\$6
5100:490	Workshop: Photography for Educators	1-3	\$45	5550:490	Workshop: Enhance Teacher Perf./Esteem	1-3	\$6
5100:490	Workshop: Video Production for Educators	1-3	\$35	5550:490	Workshop: Enhancing Athletic Performance	1-3	\$6
5200:220	Visual Arts Culture in Elementary Education	1	\$15	5550:490	Workshop: Health Ed. Update	1-3	\$7
5200:320 5200:325	Visual Arts Applications Elem. School Elementary Field Experience II	3 2	\$10 \$10	5550:490	Workshop: HIV/AIDS Update	1-3	\$7
5200:325	Teaching of Reading	2 3	\$10 \$10	5550:490 5550:490	Workshop: Law/Van: Violence and the Unruly Workshop: Leg. Pit. Teacher/Coach Avoi	1-3 1-3	\$6 \$6
5200:339	Principles of Diagnostic Teaching of Reading	3	\$10	5550:490	Workshop: Leg. Rights of Profession	1-3	\$6
5200:345	Teaching Language Literacy	4	\$10	5550:490	Workshop: Max Ind Spt/Mot Performance	1-3	\$6
5200:365	Comp. Musicianship for the Elem. Classroom Teacher	3	\$45	5550:490	Workshop: Menalt Strategies for Peak Performance	1-3	\$6
5200:370	Nursery Center Lab	2	\$15	5550:490	Workshop: Methods of Teaching Health Ed. Update	1-3	\$
5200:425	Elementary Field Experience III	2	\$10	5550:490	Workshop: Motivational Strategies: Sports/Exercise	1-3	\$7
5200:445	Evaluating Language Literacy	3	\$10	5550:490	Workshop: Motivating the At-Risk Child	1-3	\$6
5200:450 5200:490	Integrated Curriculum Applications Workshop: Actual Problem Solving & Hand Cal.	3 1-3	\$15 \$5	5550:490	Workshop: Motivation, Lang. and Arts	1-3 1-3	\$6 ©6
5200:490	Workshop: Dev. Appr. Pract/Ear Child	1-3	\$15	5550:490 5550:490	Workshop: New Games, init, Co-op Games Workshop: Personal Watercraft	1-3	\$6 \$5
5200:490	Workshop: Establishing a Balanced Reading Program	1-3	\$10	5550:490	Workshop: Psych Aspects of Coaching	1-3	\$8 \$8
5200:490	Workshop: Evaluating Language-Based Instruction	1-3	\$10	5550:490	Workshop: Rehab, and Adv. Taping Techniques	1-3	\$6
5200:490	Workshop: Literature in the Classroom	1-3	\$10	5550:490	Workshop: Sport Perf. Enhance	1-3	\$12
5200:490	Workshop: Making Language Learning Come Alive	1-3	\$10	5550:490	Workshop: Sport Perf. Enhance II	1-3	\$10
5200:490	Workshop: Surviving Substitute Teaching K-8	1-3	\$10	5550:490	Workshop: Strategies for Classroom Mgt.	1-3	\$10
5200:490 5200:490	Workshop: Teaching Beyond Text Workshop: Child Abuse	1-3 2	\$15 \$5	5550:490	Workshop: Stress in Child's World	1-3	\$6
5200:490	Workshop: Use Lit. Dev. Integ. Instr.	1-3	\$10	5550:490 5550:490	Workshop: Teaching 3 R's Movt. Workshop: Teacher's Role/Disruptive Student	1-3 1-3	\$6 \$10
5200:495	Student Teaching	4-8	\$25	5550:490	Workshop: Teacher's hole/Distuptive Student Workshop: Teacher's Should Know About Law	1-3	\$6
5200:496	Student Teaching	1-6	\$25	5550:490	Workshop: Techniques for Develop Peace School	1-3	\$6
5300:375	Exploratory Experience in Secondary Education	1	\$10	5550:490	Workshop: Tow Mor. Success Child	1-3	\$6
5300:425	Advanced Micro App. in Secondary Schools	3	\$35	5550:490	Workshop: Water Safety Skills: Sailing	1-3	\$10
5300:445	Microcomputer Literacy for Secondary Teachers	2	\$35	5550:490	Workshop: Water Safety Skills: Canoe	1-3	\$10
5300:490 5300:490	Workshop: Adv. Instructional Techniques for Language	1-3 1-3	\$20 \$5	5550:495	Student Teaching for Physical and Health Education	10	\$50
5300:490 5300:490	Workshop: Educational Strategies Urban Schl. Environ. Workshop: French Language Immersion	1-3	\$5 \$7	5560:490 5560:490	Workshop: Co-op Learning Resident OE Workshop: Inst: Self/Conc Enhance	1-3 1-3	\$12 \$12
5300:490	Workshop: Improving 9th Grade Math Prof. Scores	1-3	\$5	5560:490	Workshop: OE the Sea Coast Environ.	1-3	\$7
5300:490	Workshop: Teaching Film/TV Survival Skills	1-3	\$50	5560:494	Workshop: African Safari	4	\$2,600
5300:490	Workshop: Tech. & Instr. In Foreign Languages	1-3	\$15	5570:101	Personal Health	2	\$3
5300:490	Workshop: Whole Language Teaching Teachers	1-3	\$25	5570:202	Stress, Life-Style, and Health	3	\$10
5300:490	Workshop: Lng. Art Eng. Tch. Best Pr.	1-3	\$25	5570:323	Methods and Materials Teaching Health Ed.	3	\$10
5300:495 5400:420	Student Teaching Techology and Media: Technical Intrusction	4-11 3	\$50 \$20	5610:461	Technology and Materials Application in Special Ed.	3 3	\$15 \$17.50
5400:420	Sys. Curr. Design: Technical Instruction	3	\$20 \$20	5610:463 5610:465	Assessment in Special Education Neuromotor Aspects of Physical Disabilities	3	\$17.50 \$10
5400:435	Instructional Techniques Technical Education	4	\$20	5610:470	Clinical Practicum in Special Education	3	\$15
5400:490	Workshop: Diversity in the Worksplace	1-3	\$20	5610:480	Student Teaching: Developmentally Handicapped	12	\$50
5540:123	Bowling	.5	\$15	5610:481	Student Teaching: Special Learning Disabled	12	\$50
5540:124	Canoeing	.5	\$10	5610:482	Student Teaching: Orthopedically Handicapped	12	\$50
5540:127	Golf	1	\$20	5610:483	Student Teaching: Severe Behavior Handicapped	12	\$50
5540:133	Lifeguard Training	1	\$15 \$10	5610:484	Student Teaching: Multihandicapped	12	\$50
5540:137 5540:155	Sailing Basic Kayaking	.5 1	\$10 \$10	5610:485 5610:490	Student Teaching: Special Education Workshop: Assess and Eval:EC SE	8 1-3	\$50 \$25
5550:102	PE Act. I:Fitness/Cont. Act.	2	\$20	5010.450	workshop, Assess and Evalued SE	1-5	\$20
5550:193	Methods of Teaching Physical Educations	3	\$15				
5550:201	Kinesiology	2	\$10	College of B	usiness Administration		
5550:202	Diagnosis of Motor Skills	2	\$15		e undergraduate level in the College of Business Administra		
5550:211	First Aid and CPR	2	\$20	\$2 for one-credit	classes, \$3.50 for two-credit classes, or \$5 for three- or fou	ur-credit clas	ses.
5550:235 5550:240	Concepts of Motor Development Care and Prevention of Athletic Injury	3 3	\$10 \$20				
5550:240	Adapted Physical Education	3	\$20 \$10		ine and Applied Arts		
5550:302	Physiology of Exercise	3	\$20	7100:120	Fundamentals of Sculpture	3	\$25
5550:334	Games/Rhythms Elementary School Child	3	\$5	7100:121	Three-Dimensional Design	3	\$35 \$35
5550:335	Movement Experience for the Elementary Child	3	\$5	7100:130 7100:132	Fundamentals of Screen Printing Instrument Drawing	3 3	\$25 \$5
5550:336	Motor Learning and Development Early Child	2	\$5	7100:132	Fundamentals of Ceramics	3	\$25
5550:340	Care and Prevention: Athletic Injury	3	\$20 \$10	7100:160	Fundamentals of Jewelry	3	\$25
5550:490 5550:490	Worskshop: Bonding Music/Physical Education Workshop: Ethical Issues - Sports	1-3 1-3	\$10 \$10	7100:170	Fundamentals of Photography	3	\$25
5550:490 5550:490	Workshop: Ethical issues - Sports Workshop: World Health Issues	1-3	\$5	7100:184	Introduction to Graphic Design	3	\$5
5550:490	Workshop: Child at Risk	1-3	\$10	7100:185	Computer Graphics for Art I	3	\$40
5550:490	Workshop: Child in Sport I	1-3	\$10	7100:213	Introduction to Lithography	3	\$35
5550:490	Workshop: Child in Sport II	1-3	\$10	7100:214 7100:215	Introduction to Screen Printing Introduction to Relief Printing	3 3	\$25 \$40
5550:490	Workshop: Child in Sport: Psych CNOS	1-3	\$6	7100:215	Introduction to Intagilo Printing	3	\$40 \$40
5550:490	Workshop: CI: Health/Wellness	1-3	\$5	7100:221	Design Applications	3	\$25
5550:490	Workshop: Classroom Learning/Mgt.   Workshop: Concents Strength Training	1-3	\$6 \$5	7100:222	Introduction to Sculpture	3	\$50
5550:490	Workshop: Concepts Strength Training	1-3	\$5	7100:254	Introduction to Ceramics	3	\$35
Note: Additiona	I workshops and special topics courses offered on a rotatio	n basis ma	v include	7100:266	Introduction to Metalsmithing	3	\$40
	ere. Consult appropriate department for course material a			7100:268 7100:275	Color in Metal	3	\$35 \$35
those classes.				7100.275	Introduction to Photography	5	UU U

Course Number	Course Title	Credits	Course Fee	Course Number	Course Title	Credits	Course Fee
7100:285	Computer Graphics for Art II	3	\$40	7400:449	Flat Pattern Design	3	\$12
7100:286	Graphic Design II	3	\$5	7400:450	Demonstration Techniques	2	\$5
7100:288	Letterform & Typography	3	\$30	7400:458	Office Design	3	\$20
7100:317	Printmaking II	3	\$40	7400:459	Senior Design Synthesis	3 3	\$20 \$5
7100:321	Figurative Sculpture	3 3	\$50 \$50	7400:470 7400:475	Food Industry: Analysis and Field Study Analysis of Food	3	\$30
7100:322 7100:323	Sculpture II Lost Wax Casting	3	\$75	7400:475	Developments in Food Science	3	\$5
7100:354	Ceramics II	3	\$35	7400:478	Senior Portfolio Review	1	\$10
7100:366	Metalsmithing II	3	\$45	7400:479	The NCIDQ Examination	1	\$10
7100:368	Colors in Metals II	3	\$35	7400:480	Community Nutrition I	3	\$20
7100:375	Photography II	3	\$55 \$35	7400:481	Community Nutrition I - Clinical	1 3	\$30 \$5
7100:376 7100:380	Photographics Graphic Video	3 3	\$35 \$25	7400:482 7400:483	Community Nutrition II Community Nutrition II - Clinical	1	\$30
7100:385	Computer Graphics for Art III	3	\$40	7400:485	Seminar: Dec. Elementary Interior Design	1-3	\$10
7100:386	Packaging Design	3	\$35	7400:485	Seminar: Human Factors and Interior Space	1-3	\$15
7100:387	Advertising Layout Design	3	\$10	7400:485	Seminar: Interior Design Theories	1-3	\$10
7100:388	Advertising Production and Design	3	\$40	7400:485	Seminar: NCIDQ Prep	1-3	\$10
7100:418	Advanced Printmaking	3 3	\$40 \$50	7400:485 7400:485	Seminar: Office Design Seminar: Senior Design Synthesis	1-3 1-3	\$15 \$15
7100:422 7100:454	Advanced Sculpture Advanced Ceramics	3	\$30 \$45	7400:485	Seminar: Spec. for Interior Design	1-3	\$10
7100:466	Advanced Metalsmithing	3	\$35	7400:485	Seminar: Introduction to Italian Cuisine	1-3	\$25
7100:475	Advanced Photography	3	\$35	7400:485	Seminar: Art and Science of Wine	1-3	\$30
7100:477	Advanced Photography: Color	3	\$40	7400:485	Seminar: FD Chem. and Disease	1-3	\$5
7100:480	Advanced Graphic Design	3	\$40	7400:485	Seminar: Update - FD Addictives	1-3	\$5
7100:482	Corporate Identity and Graphic Systems	3 3	\$40 \$40	7400:485 7400:485	Seminar: Update - Fat Substitute Seminar: Women and Food	1-3 1-3	5 \$10
7100:483 7100:488	Graphic Design Presentation Publication Design	3	\$40 \$40	7400:485	Sports Nutrition	3	\$2
7100:489	Special Topic: Studio Art	3	\$40	7400:487	Practicum in Dietetics	1-3	\$25
7100:490	Workshop: Advanced Type and Image	1-4	\$20	7400:490	Workshop: Child in Marketplace	1-3	\$5
7100:490	Workshop: Resources in Art Education	1-4	\$2	7400:490	Workshop: Children and Loss	1-3	\$7
7100:491	Architectural Presentations I	3	\$5	7400:490	Workshop: Images for Success	1-3	\$12
7100:492	Architectural Presentations II	3	\$5 ¢C	7400:490	Workshop: American Cooking	1-3 1-3	\$35 \$5
7400:121 7400:123	Textiles Fundamentals of Construction	3 3	\$6 \$12	7400:490 7400:490	Workshop: Building Adolescent Life Skills Workshop: Children and Stress	1-3	\$0 \$7
7400:123	Nutrition Fundamentals	3	\$5	7400:490	Workshop: Children and Television	1-3	\$2
7400:139	Fashion and Furnishing Industry	3	\$10	7400:490	Workshop: Dynamics of Self Esteem	1-3	\$4
7400:141	Food for the Family	3	\$25	7400:490	Workshop: Ecology of Trauma	1-3	\$4
7400:147	Orient. Prof. Studies in Home Ec. and Family Ecology	1	\$5	7400:490	Workshop: Families: An Intl. Perspective	1-3	\$2.50
7400:158	Introduction to Interior Design	3	\$20	7400:490	Workshop: Family Stress/Coping	1-3 1-3	\$30 \$4
7400:219 7400:221	Clothing Communication Evaluation of Apparel and Household Textiles	3 3	\$7 \$10	7400:490 7400:490	Workshop: Functional/Dysfunctional Families Workshop: Helping Families Cope with Stress	1-3	\$5
7400:225	Textiles	3	\$10	7400:490	Workshop: Helping Families Cope	1-3	\$5
7400:239	The Fashion Industry	3	\$7	7400:490	Workshop: Helping Adolescent Sex Offenders	1-3	\$4
7400:245	Food Theory and Application I	3	\$25	7400:490	Workshop: Home Computer Productivity	1-3	\$10
7400:246	Food Theory and Application II	3	\$25	7400:490	Workshop: Home Word Processing	1-3	\$10
7400:257	Datacad - Interior Design	3	\$40 \$20	7400:490	Workshop: Images for Success	1-3 1-3	\$25 \$35
7400:258 7400:259	Light in Man-Made Environments Family Housing	3 3	\$20 \$10	7400:490 7400:490	Workshop: Joy of Health Food Preparation Workshop: Marriage and Divorce	1-3	\$35 \$4
7400:265	Child Development	3	\$5	7400:490	Workshop: Nurturing Children	1-3	\$5
7400:280	Creative Activities: Pre-Kindergarten Shildren	4	\$3	7400:490	Workshop: Nutrition for Consumers	1-3	\$5
7400:305	Advanced Construction and Tailoring	5	\$12	7400:490	Workshop: Nutrition Update	1-3	\$5
7400:311	Studies in Fiber Art	3	\$12	7400:490	Workshop: Parent/Adolescent Communication	1-3	\$4
7400:315	Food Systems Management I – Clinical	2	\$50	7400:490	Workshop: Positive Discuss For Parents	1-3 1-3	\$3 \$4
7400:316 7400:328	Science of Nutrition Nutrition in Medical Science	4 4	\$5 \$10	7400:490 7400:490	Workshop: Relationship Building Workshop: Stress Management	1-3	54 \$4
7400:328	Nutrition in Medical Science 1 – Clinical	2	\$50	7400:490	Workshop: Success Parent & Group Parent	1-3	\$6
7400:332	Human Factors/Interior Space	3	\$20	7400:490	Workshop: Success Parenting-90s	1-3	\$6
7400:333	Space Planning and Programming	3	\$20	7400:490	Workshop: Teaching Nutrition and Wellness	1-3	\$2
7400:334	Specifications for Interiors	3	\$20	7400:490	Workshop: Teenagers as Parents	1-3	\$7
7400:335	Specifications for Interiors II	3	\$20	7400:490	Workshop: WordPerfect Application for Families	1-3	\$25
7400:336	Principle and Practice: Interior Design	3	\$15 \$25	7400:490	Workshop: Child Abuse	2 2-6	\$5 \$18
7400:340 7400:352	Meal Service Strategic Merchandise Plan	2 3	\$35 \$10	7400:497 7400:497	Internship: Fashion Retailing Internship: Interior Design	2-0 2-6	\$25
7400:352	Family Life Management	3	\$5	7500:100	Fundamentals of Music	2-0	\$20
7400:390	Family Relationships in Middle and Later Years	3	\$5	7500:101	Introduction to Music Theory	2	\$20
7400:403	Advanced Food Preparation	3	\$15	7500:104	Classic Piano I	2	\$15
7400:414	Food Systems Management II – Clinical	3	\$120	7500:105	Classic Piano II	2	\$15
7400:418	History of Furniture and Interiors I	3	\$10	7500:141	Ear Training/Sight Reading I	1	\$15 \$15
7400:419	History of Furniture and Interiors II	3 3	\$10 \$20	7500:142 7500:154	Ear Training/Sight Reading II Music Literature L	1 2	\$15 \$10
7400:420 7400:423	Experimental Foods Professional Image Analysis	3	\$20 \$12	7500:154	Music Literature I Music Literature II	2	\$10 \$10
7400:423	Nutrition in Life Cycle	3	\$5	7500:254	String Instruments Techniques I	2	\$20
7400:425	Advanced Textiles	3	\$25	7500:255	String Instruments Techniques II	2	\$20
7400:426	Therapeutic Nutrition	4	\$15	7500:261	Keyboard Harmony	2	\$15
7400:428	Nutrition in Medical Science II	5	\$10	7500:262	Keyboard Harmony II	2	\$15
7400:429	Nutrition in Medical Science II - Clinical	3	\$120	7500:275	Flute/Double Reed Class	1	\$15 \$15
7400:432 7400:433	Interiors, Textiles, and Product Analysis Residential Design	3 3	\$5 \$20	7500:276 7500:277	Trumpet and French Horn Methods Clarinet and Saxophone Methods	1	\$15 \$15
7400:433 7400:434	Residential Design Commercial Design	3 3	\$20 \$20	7500:277	Introduction to Music Education	2	\$10
,		0		7500:237	Teaching General Music	2	\$10
7400:435		3	\$10				
7400:435 7400:436	Principles and Practices of Interior Design Textile Conservation	3 3	\$10 \$15	7500:341	Curriculum Innovations in General Music	3	\$10
7400:436 7400:437	Principles and Practices of Interior Design Textile Conservation Historic Costume to 1800	3 3	\$15 \$10	7500:341 7500:342	Elementary Instrumental Music	2	\$20
7400:436 7400:437 7400:438	Principles and Practices of Interior Design Textile Conservation Historic Costume to 1800 History of Fashion Since 1780	3 3 3	\$15 \$10 \$10	7500:341 7500:342 7500:343	Elementary Instrumental Music Secondary Instrumental Music	2 2	\$20 \$20
7400:436 7400:437	Principles and Practices of Interior Design Textile Conservation Historic Costume to 1800	3 3	\$15 \$10	7500:341 7500:342 7500:343 7500:351	Elementary Instrumental Music Secondary Instrumental Music Music History I	2 2 3	\$20 \$20 \$10
7400:436 7400:437 7400:438 7400:447	Principles and Practices of Interior Design Textile Conservation Historic Costume to 1800 History of Fashion Since 1780 Senior Seminar: Critical Issues in Prof. Development	3 3 1	\$15 \$10 \$10 \$10	7500:341 7500:342 7500:343 7500:351 7500:352	Elementary Instrumental Music Secondary Instrumental Music Music History I Music History II	2 2 3 3	\$20 \$20 \$10 \$10
7400:436 7400:437 7400:438 7400:447 <b>Note:</b> Addition	Principles and Practices of Interior Design Textile Conservation Historic Costume to 1800 History of Fashion Since 1780	3 3 3 1 on basis ma	\$15 \$10 \$10 \$10 \$10	7500:341 7500:342 7500:343 7500:351	Elementary Instrumental Music Secondary Instrumental Music Music History I	2 2 3	\$20 \$20 \$10

# Fees and Expenses 1997-98 55

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2003.00         Weakang, Assambal Congregation         1.3         850         700.100         Mased Conseq System 1         5.5           2003.00         Weakang Assambal Congregation         1.3         810         700.100         Conseq System 1         5.5           2003.00         Weakang Assambal Congregation         1.3         810         700.100         Conseq System 1         5.5           2003.00         Weakang Assambal Congregation         1.3         800         700.100         Conseq System 1         5.5           2003.00         Weakang Congregation         1.3         800         700.100         Conseq System 1         3.5         700.100         Conseq System 1         3.5         700.100         Model Processor         1.5         700.200           2003.00         Weakang Congregation         1.3         1.5         700.200         Model Processor         1.5         700.200         Model Processor         1.5         700.200         Model Processor         2.5         700.200         Model Processor         2.5         700.200         Model Processor         2.5         700.200         Model Processor	Number	Course Title	Credits	Fee	Number	Course Title	Credits	Fee
50550         Working Agademin Operations         10         811         Phones         10         811         Phones         10         811         Phones         10         811         Phones         10         850           50560         Workhap Cane Chings Inter Print         10         850         Phones         10         850           50560         Workhap Cane Chings Inter Print         10         850         Phones         10         850           50560         Workhap Cane Chings Inter Print         10         850         Phones         10         850           50560         Workhap Cane Chings Inter Print         10         850         Phones         10         850           50560         Workhap Cane Shiftware Inter Print         10         850         Phones         10         850           50560         Workhap Cane Shiftware Inter I	7500:490	Workshop: Adv. MIDI Applications	1-3	\$40	7910:104	Jazz Dance Ensemble	1	\$5
100058         Website of the base base framework in the set of the	7500:490	Workshop: Alexander Technique	1-3	\$50	7910:105	Musical Comedy Ensemble	1	\$5
50008         Weicher, Easter,	7500:490	Workshop: Appalachian Clog and Dance	1-3	\$11	7910:106	Opera Dance Ensemble	1	
200006         Website Conc Charlow Prive         13         55         Prior 10         Environment Environment         1         15           200006         Website Core Charlow Prive Prive         13         15         Prior 10         Prior 10         15         15           200006         Website Core Site Website         13         15         Prior 10         15         15           200006         Website Core Site Website         13         15         Prior 10         15								
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1565.64         Wurkein Carring MUD Syn for Ed         13         560         700.122         Bale Virtuance Immedian Moder Danual A         5         15           1565.64         Wurkein Carring MUD Syn for Ed         13         52         700.122         Mader Ministrander Training Sin								
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550.64         Wurksing Evolves in Herl         13         150         7802.241         Print is         2         55           500.64         Wurksing Fashwart Herl         13         16         7802.241         Print is         2         15           500.64         Wurksing Fashwart Carson Spectry         2         15         7802.241         Print is         2         15           500.64         Wurksing Kashwart Carson Spectry         2         15         7802.241         Print is         2         15           780.64         Wurksing Mark Land Terrhaue         13         15         7802.221         Bark Hill Print is in the Herbit Lang         16         16         7802.324         Print is         2         15           780.64         Wurksing Mark Land Herbit Lang         16         50         7802.324         Print is         2         16           780.64         Wurksing Mark Land Herbit Lang         16         50         7802.324         Print is         2         16           780.64         Wurksing Mark Land Herbit Lang         16         50         7802.324         Print is         2         16           780.64         Wurksing Mark Land Herbit Herbit Lang         16         50         7802.324								
505140         Workshop Fund Macr         10         3         510         7002/26         Workshop Fund Macr         2         85           700140         Workshop Fund Macr         10         800         700310         Conceptually         2         85           7001400         Workshop Fund Macr         10         810         700310         Conceptually         2         85           7001400         Workshop Macr         10         850         700330         Medin Wirkshop Macr         3         85         700330         Medin Wirkshop Macr         10         850         700330         Medin Wirkshop Macr         10         850         700330         Medin Wirkshop Macr         10         850         700330         Macr         10         850         700340         Macr         8         8         8         8         8         700340         Macr         8         8         700440         Macr         8         8         8         700440         Macr         8         8         700440								
1556.40         Workshop, Frame Music Repeat:         13         540         2000.10         Chenegystyl <sup>1</sup> 2         8           1506.40         Workshop, March Representation Signer Structure         3         35         7200.20         Bear VI Franceis of Advanced Technous         5         55           1506.40         Workshop, March Representation Signer Structure         3         35         7200.20         Medern VIII Advanced Modern Dance A         3         85           1506.40         Workshop, March Representation Signer Structure         3         350         7200.32         Medern VIII Advanced Modern Dance A         3         85           1505.40         Workshop, March Structure         13         350         7200.32         Medern VIII Advanced Modern Dance A         3         85           1505.40         Workshop, March Structure         13         350         7200.42         March Cales         2         85           1505.40         Workshop, March Structure         13         350         7200.42         Bart Wirkshop         2         85           1505.11         March Structure         13         350         7200.42         Bart Wirkshop         2         35           1505.11.41         March Structure         March Structure         3<								
1506.00         Westerson EntryA (Lancoron Spee         1.3         16         200.01         Dranes/barry III         2         85           1500.400         Westerson EntryA (Lancoron Spee)         3         15         7700.023         Modern VII Advanced Meanson Technics A         8         8           1500.400         Westerson Entry Aline         1.3         150         7700.023         Modern VII Advanced Meanson Technics B         3         150           1500.400         Westerson Entry Aline         1.3         150         7700.023         Modern VII Advanced Meanson Technics B         3         55           1500.400         Westerson Entry Aline         1.3         1.00         7700.024         Premin         2         85           1500.400         Westerson Entry Aline         1.3         1.50         7700.024         Premin         2         85           1500.400         Westerson Entry Aline         1.4         1.50         7700.044         Cherongraphy III         2         85           1500.400         Westerson Entry Aline         1.4         1.50         7700.046         Premin         2         85           1500.101         Agrieson Maace Maase Meanson Technicson Entry Aline         1.4         520         520         520	7500:490						2	\$5
1500.00         Workshop Much Bard Technques         1-3         151         7202.22         Belt VI: Progres of Machan Decores         5         152           1003.040         Workshop Much Bard Vietheng         1-3         153         720.0230         Modern Vietheng         1         153         720.0230         Modern Vietheng         2         155           1003.040         Workshop Much Bard Vietheng         1-3         150         720.0230         Modern Vietheng         2         155           1003.040         Workshop Carf Lucell B         1-3         1-30         720.0240         Workshop Carf Lucell B         1-3         1-30         720.0240         Workshop Carf Lucell B         1-3         1-30         720.0241         Advaced Technque Proformance         5         1-55           1500.140         Workshop Wookshop Machan H B         1-3         1-30         720.0241         Advaced Technque Proformance         5         1-3         1-	7500:490	Workshop: Healthful Classroom Spe	1-3	\$5	7920:317	Choreography II	2	\$5
1505.40         Woshing, March Sand Woshing         13         210         720.223         Modern Wit Advanced Modern Darva A         3         85           1700-40         Woshing, Maxee Yrköme Linna         13         85         720.323         March Dir Lannaed Modern Darva A         85           1700-40         Woshing, Maxee Yrköme Linna         13         85         720.323         March Dir Lannaed Modern Darva A         85           1700-40         Woshing, Maxee Yrköme Linna         13         85         720.324         March Dir Lannaed Modern Darva A         85           1700-40         Woshing, Maxee Yrköme Linna         13         85         720.324         March Dir Lannaed Modern Darva A         85           1700-40         Woshing, Maxee Yrköme Yrköme Linna         13         85         720.422         Baller Yll Advareed Ternaya Preformance         5         85           1700-40         Woshing, Moonerna Fref Terl School Dir         13         80         720.422         Baller Yll Advareed Modernaed Ternaya Preformance         5         85           1700-204         Woshing, Moonernaed Ternaya Preformance         2         85         720.422         Baller Yll Advareed Modernaed Ternaya Preformance         3         85           1700-204         Modern Yll Markeed Marked Markeed Modernaed Markeed Mar	7500:490	Workshop: Kodaiy IA	1-3	\$10	7920:320	Dance Notation	2	
1500 bit         Workshop, Marken Stay, Falma         1.3         2.10         7202.320         Modern Witt Advence To Second Needs         3         8.5         7202.321         Protects         2         8.5           7200.40         Workshop, Marken for Second Needs         1.3         1.0         7200.40         Protects         2         8.5           7200.40         Workshop, States, Corp. Lands, Early Oldhards         1.3         1.0         7200.40         Protects         2         8.5           7200.40         Workshop, States, Corp. Lands, Early Oldhards         1.3         8.5         7200.41         Chores synthy         2         8.5           7200.41         Workshop, States, Corp. Lands, Early Oldhards         1.4         8.5         7200.41         Prote Data         1.3         8.5           7200.41         Workshop, International Advention of States         2         8.5         7200.41         Protects         1.3         8.5           7200.41         Workshop, International Advention of States         2         8.5         7200.41         Workshop, International Adventional Advenational Advenational Adventional Advenational Adventional Adven	7500:490	Workshop: March Band Techniques	1-3	\$15	7920:322	Ballet VII: Principles of Advanced Technique	-	
1500.00         Workshop         Workshop         1.3         1.5         2020314         Pair De Douxi         2         5.5           7000.60         Workshop         Mark Social         Pair De Douxi         2         5.5           7000.60         Workshop         State Social         Pair De Douxi         2         5.5           7000.60         Workshop         State Social         Pair De Douxi         2         5.5           7000.60         Workshop         State Social         Pair De Douxi         2         5.5           7000.60         Workshop         State Social         Pair De Douxi         2         5.5           7000.60         Workshop         State Social         Pair De Douxi         2         5.5           7000.60         Workshop         Pair De Douxi         Pair De Douxi         2         5.5           7000.60         Workshop         Pair De Douxi         Pair De Douxi         Pair De Douxi         2         3.5           7000.700         Apple Marce for Marka Mages         2         5.5         7700.700         Pair De Douxi         7700.700         7700.700         7700.700         7700.700         7700.700         7700.700         7700.700         7700.700         7700.700	7500:490			• •				
1500.00         Verstrick induction Spread Needs         1.3         1.00         7200.341         Prome III         2         8.5           700.040         Verstrick DPFF Lawell IB         1.3         1.00         7200.342         Mark Dames Symple         2         8.5           700.040         Verstrick DPF Lawell IB         1.3         1.00         7200.442         Mark Dames Symple         2         8.5           700.040         Verstrick Verstrick DPF Lawell IB         1.3         1.00         7200.442         Bale VIII Advanced Auro Dames Paint P								
100.0400         Workshop OFF Level IA         1.3         \$20         7202-342         Mumis Class         2         \$85           100.040         Workshop OFF Level IA         1.3         \$30         7202-161         Charters System         2         \$85           100.040         Workshop OFF Level IA         1.3         \$30         7202-161         Charters System         2         \$85           100.040         Murining Bard         1.3         \$10         7202-164         Pand De Deau II         2         \$85           100.041         Murining Bard         1.3         \$10         7202-167         Murining Bard         1.3         \$10         7202-167         Murining Bard         1.3         \$10         7202-167         Murining Bard         1.3         \$10				• -				
1502.00         Visitation         1.3         2.0         200.381         Jac. Dime System         2         8.5           1500.40         Visitation         Sample Market Sample Main         1.3         3.0         100.416         Choregraphy III         2         3.5           1500.40         Visitation         Table Main         1.5         100.416         Choregraphy III         2         3.5           1500.40         Apple Mark to Nurshigat         2         3.5         700.417         Advanced Juzz Town Main         1.3         3.5           1500.11         Apple Mark to Nurshigat         2         3.5         700.424         Pack of Nurshigat         3         3.5           1500.11         Apple Mark to Nurshigat         2         3.5         700.426         Nurshigat         1.4         2.5           1500.20         Nurshigat         3         3.5         700.247         Nurshigat         1.4         2.5         3.5           1500.20         Found Whiting         3         3.5         800.227         Found Main         1.4         2.5         3.5           1500.20         Found Whiting         3         3.5         800.226         Found Main         3         3.5				• •				
1500.600       Weaksop: Such Music Farl (national C-Sarl) (nat				• •				
1500.400         Websing Teaching Music - East Outline         1.3         3.0         7202.427         Diversign // V         2         55           7500.400         Websing Teaching Music - East Outline         1.3         3.0         7202.427         Diversign // V         2         55           7500.400         Marching Band         1.3         3.0         7202.427         Diversign // V         2         58           7500.11-00         Applied Music Transform         2         3.60         7202.47         Independent Storm // None         1.3         85           7500.11-00         Applied Music Transform         3         3.10         7202.47         Independent Storm // None         1.3         85           7500.201         Editing         3         3.10         7202.47         Diversional Ref. Providement         3         85           7500.202         Editing         3         3.10         8200.205         Protexional Ref. Providement         3         85           7500.203         Editing         3         3.15         8200.225         Foundational Providement         3         3.16           7500.204         Editing         3         3.16         8200.225         Foundational Providement         3         3.16								
1201         Weaksbarg         Weaksbarg         Patter Machang         Same         Patter Machang         Same								
This 108       Methong Rand       1       10       720 2134       Pask be Data       1       2       85         7520212-069       Applied Music from Waters       2       85       7202437       Natwend Jusz Dance Shipken 2       85         7202112-168       Applied Music from Waters       2       85       7202497       Indepredint Ship /n Dance       13       85         7202112-168       Applied Music from Waters       3       85       720121-168       Applied Music from Waters       13       85         7202121-168       Applied Music from Waters       3       85       720121-168       Applied Music from Waters       1       25         7202020       Fature Writing       3       85       8200210       Batic Critication       1       25         7202020       Fature Writing       3       810       8200218       Profession Production       3       818         7202020       Fature Writing       3       810       8200216       Putter Masters of Musing       3       819         7202020       Fature Masters       3       810       8200226       Critication       3       819         7202020       Fature Masters       3       810       8200326       Nature Maste								
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1980.201         News Wring         1 <th1< th="">         1         1</th1<>	7520:121-46		2	\$95	7920:497		1-3	\$5
2020.26         Eding         College of Nursing           2020.26         Fautur Witting         3         55         800.200         Back Concepts of Nursing         4         540           2020.28         Media Poduction Techniques         3         515         800.201         Back Concepts of Nursing         4         540           2020.28         Television Production         3         516         800.201         Production Poduction         5         583           2020.22         Bradkanser Newswining         3         516         800.201         Production Poduction         5         583           2020.321         Bradkan Newswining         3         516         800.305         Cultural Unitaria         2         515           2020.322         Bradkan Newswining         3         510         800.305         Nursing Orientacida         5         550           2020.326         Reduction Exclusion         3         510         800.305         Nursing Orientacida         5         550           2020.326         Reduction Exclusion         3         510         800.306         Nursing Orientacida         5         550           2020.326         Magane Writing         3         510         800.306	7520:121-46	9 Applied Music for Music Majors	4	\$190	7920:498	Senior Honors Project in Dance	1-3	\$5
1900.000         Faulty         Name         1         252           1900.200         Media Production forthingues         3         315         8000.215         Professional Fabe Development         3         315           1900.228         Redo Production         3         315         8000.215         Professional Fabe Development         3         315           1900.288         Film Production         3         315         8000.215         Professional Fabe Development         3         315           1900.281         Broduction Networking         3         315         8000.215         Professional Fabe Development         3         315           1900.302         Broduction Networking         3         316         8000.316         Current Pathement         5         550           1900.302         Broduction Networking         3         310         8000.306         Name Care of Maring         5         500           1900.302         Promotoral Pathement         3         310         8000.306         Name Care of Maring         5         500           1900.302         Promotoral Pathement         3         310         8000.400         Name Care of Maring         5         500           1900.304         Maring Familes Maru	7600:201	News Writing			College of Nu	mina		
1950.280         Media Production         3         3         515         8200.210         Basic Concents of Nursing         4         440           1950.282         Television Production         3         515         8200.220         Foundation of Nursing Practice         5         858           1950.282         Television Production         3         515         8200.220         Foundation of Nursing Practice         5         858           1950.301         Advanced Newswriting         3         55         8200.235         Cultural Dimensions of Nursing         2         515           1950.302         Readiast Newswriting         3         510         8200.236         Nursing of Nursing         3         55           1950.302         Readiast Newswriting         3         510         8200.390         Nursing of Nursing         5         550           1950.302         Commendal Rectronic Platehing         3         510         8200.390         Nursing Care of Oddits         5         550           1950.302         Vedo Commendal Rectronic Platehing         3         515         8200.490         Nursing Care of Oddits         5         550           1950.303         Audia Rot Oddits         5         550         5         550 </td <td></td> <td></td> <td>-</td> <td></td> <td>•</td> <td>•</td> <td></td> <td><b>*</b>••<b>=</b></td>			-		•	•		<b>*</b> •• <b>=</b>
1920 228         Rade / Froduction         3         510         8200 215         Professional Role Development         3         915           7600 238         Film Production         3         515         8200 225         Health Assessment         3         555           7600 230         Advanced Newswriting         3         55         8200 235         Cultural Dimensions of Naring         2         515           7600 230         Braidscat Newswriting         3         55         8200 235         Cultural Dimensions of Naring         2         515           7600 230         Braidscat Newswriting         3         55         8200 236         Competer of Naring         3         515           7600 230         Magaine Virting         3         51         8200 236         Naring Chan Or Adata         55         550           7600 231         Autio Readming Franking         3         510         8200 246         Naring Chan Or Adata         55         550           7600 236         Basic Audo and Video Editing         3         515         8200 2410         Naring Chan Or Hadity Mindu/adia         5         515           7600 246         Maring Chan Or Hadity Mindu/adia         5         525         500         500         500								
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1980.208         Fin Production         3         \$15         B200.225         Heath Assessment         3         \$85           1980.301         Advanced Mexwaring         3         \$5         B200.325         Cultural Dimensions of Naring         2         \$15           1980.302         Buiks Relations Writing         3         \$5         B200.336         Cuncepts of Messonal Naring / Menancodoy         3         \$15           1980.303         Muits Relations Writing         3         \$10         B200.336         Cuncepts of Messonal Naring / Messonal								
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1980.037         Commercial Electronic Publishing         3         \$10         8200.380         Nursing Care of Adults         5         \$50           1980.039         Promotional Publisations         3         \$10         8200.380         Minital Health Nursing         5         \$50           1980.039         Buildiness and Pofessional Speaking         3         \$16         8200.380         Minital Health Nursing Care of Healthy Individuals         5         \$50           1980.0382         Video Camera and Recording         3         \$16         8200.416         Nursing Individuals         5         \$55           1980.0383         Advanced Telexison Production         3         \$16         8200.440         Nursing Individuals         5         \$55           1980.042         Advanced Telexison Production         3         \$16         8200.440         Nursing Indeviduals with Children         5         \$25           1980.042         Advanced Media Viting         3         \$10         8200.440         Nursing Indeviduals with Children         5         \$25           1890.042         Advanced Xucho Advanced Media Viting         3         \$16         8200.440         Nursing Indeviduals with Children         5         \$25           1980.0464         Corpororat Video Ching		-			8200:336	Concepts of Professional Nursing	4	<b>\$</b> 15
1900.0309         Permetational Publications         3         30         8000.380         Murising Care of Order Adults         5         \$50           7000.361         Audo Recording Tecritiques         3         \$10         8200.480         Murising Care of Medity Individuals         6         \$15           7000.362         Vado Camera and Recording         3         \$16         8200.410         Nursing Care of Medity Individuals with Complex Health Problems         5         \$15           7000.362         Advanced Television Production         3         \$16         8200.410         Nursing Care of Modulas with Complex Health Problems         5         \$15           7000.362         Advanced Television Production         3         \$16         8200.440         Nursing Cameravitical Studions         3         \$10           7000.462         Carporate Video Design         3         \$10         8200.446         Prosting Production         3         \$15           7000.462         Carporate Video Carbing         3         \$15         8200.446         Prosting Production         3         \$15           7000.461         Carporate Video Faduat         \$26         \$15         8200.446         Prosting Production         \$25           7000.461         Advanced Advanced Advanond Video Editing	7600:306	Magazine Writing	3	\$5	8200:350	Nursing of the Childbearing Family	5	\$50
7900.345         Business and Professional Speaking         3         55         800.405         Manual Health Nursing         5         520           7900.361         Audro Recording Techniques         3         515         8200.405         Nursing Care of Health Individuals         5         515           7900.382         Video Camera and Recording         3         515         8200.415         Nursing Care of Health Individuals         5         515           7900.383         Advanced Video Editing         3         516         8200.415         Nursing Individuals with Complex Health Problems         3         \$55           7900.446         Media Copynery Video Design         3         \$10         8200.445         Nursing Leadership         5         \$15           7900.446         Corporate Video Design         3         \$10         8200.445         Professional Nursing Leadership         5         \$15           7900.446         Corporate Video Fating         3         \$16         8200.465         Professional Nursing Leadership         5         \$15           7900.446         Corporate Video Production         3         \$16         8200.465         Concepts and Theories: Professional Nursing         3         \$25           7900.460         Advanced Advalo and Video Editing	7600:307	Commercial Electronic Publishing	3	\$10	8200:360			
7500.361         Auto Recording Terningues         5         50         8200.405         Nursing Care of Healting Individuals         5         515           7500.382         Basic Audo and Video Editing         3         515         8200.415         Nursing of Individuals with Complex Health Problems         5         515           7500.382         Advanced Television Production         3         515         8200.415         Nursing in Complex/Citical Strations         3         \$15           7500.482         Advanced Television Production         3         \$10         8200.445         Nursing in Complex/Citical Strations         3         \$10           7500.482         Carporate Vision Magement         3         \$10         8200.446         Nursing in Company         \$5         \$15           7500.484         Carporate Vision Magement         3         \$15         8200.446         Nursing Camiles         \$2         \$15           7500.464         Carporate Vision Magement         3         \$15         8200.446         Professional Nursing Camiles         \$15           7500.465         Saluda and Vision Catring         3         \$15         8200.446         Professional Nursing Camiles         \$15           7500.465         Electronin Media Productons         3         \$15	7600:309	Promotional Publications	3					
7900.382         Video Camera and Recording         3         515         8200.410         Nursing Infinutional Stutions         5         555           7900.383         Advanced Television Production         3         515         8200.415         Nursing Infinutional Stutions         3         \$55           7800.383         Advanced Television Production         3         \$15         8200.440         Nursing Familes with Children         5         \$15           7800.465         Media Copywriting         3         \$10         8200.440         Nursing Camera is a stop of the children is stop of the children is stop of the children is a st								
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7600.333         Advanced Television Production         3         \$15         8200.430         Nursing in Complex/Cirbical Stuations         3         \$55           7600.462         Advanced Media Wrining         3         \$10         8200.436         Nursing in Research         3         \$10           7600.462         Corporate Video Management         3         \$10         8200.446         Nursing in Complex/Cirbital Stuations         3         \$15           7600.464         Corporate Video Management         3         \$15         8200.446         Professional Nursing Leadership for Cilbital Care         2         \$15           7600.466         Audio and Video Editing         3         \$15         8200.446         Professional Issues         2         \$15           7600.467         Directing Video Productions         3         \$15         8200.460         Issues and Roles: Profession of Nursing         3         \$25           7600.468         Advanced Audio and Video Editing         3         \$15         8200.460         Issues and Roles: Profession of Nursing         3         \$25           7600.483         Electron: Media Production         3         \$15         8200.470         Comparet Video Praduction         \$25           7700.450         Davido Praduction Movido Praduction			-					
7900.405         Musical Copywriting         3         \$10         800.435         Nursing Research         3         \$10           7800.462         Advanced Media Writing         3         \$10         8200.446         Nursing Leadership for Clent Care         2         \$15           7800.463         Corporate Video Design         3         \$10         8200.446         Professional Nursing Leadership for Clent Care         2         \$15           7800.464         Corporate Video Drangement         3         \$15         8200.446         Senior Nursing Leadership for Clent Care         2         \$15           7800.466         Audia cad Video Editing         3         \$15         8200.446         Senior Nursing Leadership for Clent Care         2         \$15           7800.467         Directing Video Pradiction         3         \$15         8200.446         Concepts and Theories. Profession of Nursing         3         \$25           7800.492         Corporate Video Pradicum         2         \$15         8200.446         Connepts and Theories. Profession of Nursing         3         \$25           7800.450         Electronic Media Production         3         \$16         8200.470         Connepts and Theories. Profession of Nursing         5         \$25           7700.450         Assest		5						
7600.462         Advanced Media Winting         3         55         820.440         Nursing of Communities         5         \$25           7600.463         Corporate Video Design         3         \$10         8200.446         Professional Nursing Leadership         5         \$15           7600.464         Guing and Video Editing         3         \$15         8200.450         Senior Nursing Pacticum         3         \$25           7600.468         Advanced Audio and Video Editing         3         \$15         8200.450         Electronic Media Productions         3         \$25           7600.468         Advanced Audio and Video Editing         3         \$15         8200.450         Electronic Media Production         3         \$25           7600.493         Electronic Media Production         3         \$15         8200.480         Community Health Nursing         4         \$25           7700.351         Speech-Language Streening Practicum         2         \$15         \$200.480         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.450         Augeneration         3         \$16         \$200.480         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.451         Audiogy Streening Practicum								
7200.463         Corporate Video Design         3         \$10         8200.445         Nursing Leadership for Client Care         2         \$15           7600.464         Corporate Video Management         3         \$10         8200.446         Professional Nursing Leadership for Client Care         2         \$15           7600.466         Audia and Video Enting         3         \$15         8200.460         Senior Nursing Practicum         3         \$25           7600.467         Directing Video Productions         3         \$15         8200.460         Issues and Roles. Profession of Nursing         3         \$25           7600.468         Corporate Video Practicum         2         \$15         8200.465         Concepts and Theories: Profession of Nursing         3         \$25           7600.482         Electronic Media Production         3         \$15         8200.485         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.350         Entrance Practicum         3         \$15         8200.485         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.351         Spech-Lang and Hr. Pr.         2         \$5         \$5         \$15           7700.461         Audiology Sreening Practicum         3         \$15 </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>			-					
7200.464         Comparise Video Management         3         \$10         8200.466         Professional Nursing Leadership         5         \$15           7600.466         Audio and Video Editing         3         \$15         8200.460         Senior Nursing Practicum         3         \$25           7600.467         Directing Video Productions         3         \$15         8200.460         Issues and Roles: Profession of Nursing         3         \$25           7600.468         Advanced Audio and Video Editing         3         \$15         8200.460         Issues and Roles: Profession of Nursing         3         \$25           7600.492         Corporate Video Practicum         3         \$15         8200.470         Community Health Nursing         4         \$25           7700.351         Speech-Language Screening Practicum         2         \$15         \$15         \$170         \$170         \$16         \$170         \$170         \$16         \$170         \$170         \$25         \$15         \$170         \$170         \$16         \$170         \$170         \$18         \$16         \$170         \$170         \$18         \$15         \$170         \$170         \$18         \$16         \$170         \$170         \$18         \$16         \$170         \$170			-					
7800.466         Audio and Video Editing         3         \$15         8200.450         Serior Nursing Practicum         3         \$25           7600.467         Directing Video Productions         3         \$15         8200.465         Professional Issues         2         \$15           7600.468         Advanced Audio and Video Editing         3         \$15         8200.466         Issues and Roles: Profession of Nursing         3         \$25           7600.482         Corporate Video Practicum         2.6         \$15         8200.466         Issues and Roles: Profession of Nursing         4         \$25           7600.492         Electronic Media Production         3         \$16         8200.465         Conneunty Health Nursing         4         \$25           7700.350         Entrance Practicum         3         \$15         8200.485         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.352         Clinical Practicum: Aural Rehab         1         \$10         \$17         \$1700.440         Augmentative Communication         3         \$15           7700.451         Audology Screening Practicum         2         \$15         \$17         \$1700.461         \$14         \$13         \$5           7800.265         Baie: Introduction t					8200:446		5	\$15
7600.467         Directing Video Productions         3         \$15         8200.465         Professional Issues         2         \$15           7600.468         Advanced Audio and Video Editing         3         \$16         8200.460         Issues and Roles: Profession of Nursing         3         \$25           7600.493         Electronic Media Production         3         \$15         8200.470         Comports Video Practicum         4         \$25           7700.350         Entrance Practicum         2         \$15         8200.485         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.351         Speech-Language Screening Practicum         2         \$15         \$27         \$270         \$27		·	3	\$15	8200:450	Senior Nursing Practicum	3	\$25
7800.422         Corporate Video Practicum         2.6         \$15         8200.465         Concepts and Theories: Profession of Nursing         3         \$25           7800.423         Electronic Media Production         3         \$15         8200.470         Community Health Nursing         4         \$25           7700.350         Entrance Practicum         3         \$15         8200.485         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.350         Speech-Language Screening Practicum         3         \$10         5         \$270           7700.450         Assessment of Communicativo Disorders         3         \$15         \$270         \$15         \$170         \$1700.450         Assessment of Communicativo Disorders         3         \$15           7700.451         Audiology Screening Practicum         2         \$15         \$170					8200:455	Professional Issues		
7800.433         Electronic Media Production         3         \$15         8200.470         Community Health Nursing         4         \$25           7700.350         Entrance Practicum         3         \$15         8200.485         Leadership and Management Roles: Prof. of Nursing         5         \$25           7700.351         Speech-Language Screening Practicum         2         \$15           7700.440         Augmentative Communicative Disorders         3         \$10           7700.451         Audiology Screening Practicum         2         \$15           7700.461         Audiology Screening Practicum         2         \$15           7700.451         Audiology Screening Practicum         2         \$15           7700.461         O&A Practicum         2         \$15           7800.106         Intro to Scenic Design         3         \$5           7800.263         Scene Planting         3         \$5           7800.124         Baliet I: Introduction to Modern Dance I         2         \$5           7800.120         Modern I: Introduction to Modern Dance II         2         \$5           7800.120         Modern II: Introduction to Ballet I         2         \$5           7900.120         Jazz Dance I         2         \$5 <td>7600:468</td> <td>Advanced Audio and Video Editing</td> <td>3</td> <td>\$15</td> <td></td> <td></td> <td></td> <td></td>	7600:468	Advanced Audio and Video Editing	3	\$15				
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# Installment Payment Plan

This plan is designed to spread registration and University housing fees into as many as four installments (two during a summer term) depending on when the application is received. An Application Service Charge of \$17 per contract for registration fees and \$17 per contract for University housing fees is assessed for the Installment Payment Plan (IPP). If a payment is not received on the due date, a late payment penalty is assessed at \$20 per payment for registration fees or \$40 per payment if University housing is included. These fees are subject to change.

For applications received up to and including the published semester fee deadline, a 30-percent down payment is required with three follow-up installments at 20 percent, 25 percent and 25 percent respectively. Applications received after the fee deadline and up to the first day of classes will require a 50-percent down payment with two follow-up installments of 25 percent each. For summer terms, the down payment is 30 percent plus one installment at 70 percent or less, depending on the amount of direct application. If the direct application of financial aid for the fall or spring semester is greater than 30 percent and is used as a down payment, the remaining balance will be billed in one, two or three equal payments, depending on when the student registers. Installments are billed monthly starting approximately 30 days after the start of classes.

Financial aid may be used to pay the down payment. If the amount of aid is greater than the required down payment, the entire aid amount must be used as the downpayment. The remaining installment balance will be billed either in two or three equal payments, depending on the registration period.

Application forms are included with the Student Fee Invoice or may be obtained in Spicer Hall 105 or by calling (330) 972-5100.

# 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 carrying nine or more credits, or graduate students carrying six or more credits may purchase this insurance, at the same annual individual rate, through the Student Health Services Office.

# 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 right 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).

### 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
  - less \$5 per enrolled credit to a maximum of \$50 if the student requests official withdrawal from all credit courses on or before the Sunday (midnight) which begins the second week of the enrolled term. (Note: If a semester begins other than on a Monday, the maximum refund period will extend to seven (7) days from the beginning of the semester. Example: Semester begins on Tuesday, the maximum refund period will end at midnight on the following Monday.)
  - 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.

### Amount of Refund – Noncredit

- Courses: If a course is cancelled 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 will result in a full refund less \$10 processing charge, or you may transfer to another course. Thereafter, withdrawal requests up to the beginning of the second class will receive a 50-percent refund.
- Seminars: If a seminar is cancelled by The University of Akron, a full refund will be issued. Withdrawal requests received up to four (4) business days prior to a single- or multiple-day seminar will result in a full refund less \$10 processing charge. Thereafter, you may send a colleague in your place, transfer to another seminar, or receive credit toward a future seminar.

Refunds will be 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 card credits and refund checks will be processed promptly. Parking permits must be returned to the Central UASC Office to receive a refund.

#### **Refund for cancelled classes**

The University reserves the right to cancel a course should there be insufficient enrollment. A full refund will be mailed to the student as soon as possible.

# **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 deposit) and release of other financial liability therefore under the following circumstances:
  - Graduation of the student from the University.
  - Academic dismissal of the student from the University.
  - Non-attendance or complete withdrawal by the student from the University prior to the start of the Contract term (EXCEPT the advance rental payment of \$150, which shall be forfeited). The \$150 prepayment will be refunded for new entering students when notification of intent to cancel the Contract is received prior to May 15 for the following fall semester.
  - In the event mandatory or recommended participation in academic programs of the University requires the student to commute regularly beyond the Akron metropolitan area (e.g., student teaching or co-op assignments).
- With a partial refund of prepaid fees (EXCEPT the \$150 prepayment) according to the Refund Schedule below, and release of financial liability for subsequent semesters covered by the Contract term, in the event the student completely withdraws from the University after the start of the Contract term. In such instances, the student shall not be liable for further forfeiture.
- With a partial refund of prepaid fees according to the Refund Schedule below:
  - 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 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 terminates 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. In addition, if the student has contracted for any subsequent semester beyond that semester in which the Contract is terminated, the student shall pay \$200 as forfeiture for Contract termination.
  - In the event that the student is dismissed or suspended from the University for disciplinary reasons in accordance with laws or rules and regulations of the University's 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.

These conditions do not release the student from financial liability for any fees which are due not later than the effective dates of such termination, dismissal, suspension, or probation.

### Refund Schedule

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	no refund
tion Requirements	

#### Notice Requirements

All notices of intent to terminate the Housing Accommodations and Food Services Contract must be submitted in writing to the Office of Residence Halls. 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

Payment of a non-resident tuition surcharge is required of any student who does not qualify as a permanent resident of Ohio as defined by one or more of the following sections:

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.
- 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 lessee 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 lessee 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.
- 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, located in Spicer Hall, 119.

# **Federal Programs**

### Federal Pell Grant

The Pell Grant is the foundation of student financial aid. The grant is awarded to the student by the federal government. After applying for the grant, the student will receive a Student Aid Report (SAR), and the University will receive the information electronically as long as the student listed The University of Akron as a college choice on the application. The office then calculates the amount of the grant, which is based on financial need and enrollment status (full- or part-time). If The University of Akron is not listed as a college choice, contact the Office of Student Financial Aid for additional instructions.

### Federal Supplemental Educational Opportunity Grant

The Federal Supplemental Educational Opportunity Grant (FSEOG) is a federal grant that is awarded by The University of Akron. The amount of the grant is determined by the school attended and is based on the need and the costs at that school. Entering freshmen and continuing students must have a 2.00 gradepoint average and an early application to be eligible for the FSEOG.

### Federal College Work-Study Program

The College Work-Study Program (FCWSP) 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. The office determines the amount of money that can be earned and places the student in a suitable job. The student and job supervisor adapt working hours to meet the student's class schedule. Students must have a 2.00 grade-point average and an early application to be eligible for federal work study.

### Federal Perkins Loan

The Federal Perkins Loan Program offers low-interest, long-term loans for an eligible student. Eligibility and loan amounts are determined by the office on the basis of need. This federal loan must be repaid, beginning nine months after ceasing to be at least a half-time student. Interest at five percent is calculated at the time repayment of the loan begins. If the student is teaching in certain fields or locations after graduation, eligibility for cancellation of all or part of the amount that was borrowed is possible. Entering freshmen and continuing students must have a 2.00 grade-point average to be eligible for the Perkins Loan and an early application.

### Federal Subsidized Stafford Loan

This program offers low-interest loans to an eligible student on the basis of financial need. After a Free Application for Federal Student Aid (FAFSA) has been received from the need analysis processor and processed by the University, an Award Proposal and a Loan Request Form will be sent to the student. The Award Proposal will estimate potential eligibility for the loan, and the Loan Request Form will start the application process. While the student is in school, the interest is paid by the federal government.

### Federal Unsubsidized Stafford Loan

This loan is not based on financial need. The combination of loans under both Subsidized and Unsubsidized Stafford cannot exceed the maximum eligibility for the entire year. Interest will begin accumulating on the unsubsidized portion immediately. Steps for application are the same as the Federal Subsidized Stafford Loan.

### Nursing Student Loan

A low-interest federal loan is available to an eligible student who is pursuing the Bachelor of Science in Nursing. It is based on need, and the amounts are determined by the Office of Student Financial Aid. Repayment begins nine months after ceasing to be a half-time student. Interest upon repayment is five percent.

### Federal PLUS Loan

This loan is available to parents of dependent students. Unlike the other federal loan programs, eligibility is not based on financial need. Low monthly payments for this variable-interest rate loan begin 30-60 days after loan receipt unless alternative arrangements are made with the lender. Applications may be obtained at the University or by contacting your local lending institution.

### **ROTC Scholarships**

Two- and three-year scholarships paying tuition, fees, flat rates for books each semester, and subsistence allowances of \$100 per month are available to full-time students. Contact the Army or Air Force offices for additional information.

### **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 Student Aid Commission. 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 Student Aid Commission.

# **University Programs**

### Scholarships

The University offers scholarships to the student 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, but a need analysis form is not required.

Scholarships for Excellence are targeted to new high school graduates who are residents of the State of Ohio, with a minimum score of 26 on the ACT or 1100 on the SAT and are in the top 10 percent of their graduating class after seven semesters. Must enroll full-time (at least 12 credit hours) each semester.

**Presidential Scholarships** are targeted to students in the top three percent of their high school graduating class and in the upper ten percent nationally in test scores. Approximately 60 scholarships are awarded each year to new freshmen.

The Honors Program targets scholarships to students with at least a 3.5 high

school grade-point average and in the upper ten percent nationally in test scores. The scholarships are competitive, and interviews are required.

National Merit Finalists are awarded full scholarships for the freshmen year and full tuition scholarships for each year thereafter of undergraduate education.

**General Academic Scholarships** and **Minority Scholarships** are awarded to continuing and outstanding high school students who do not qualify for Presidential or Honors Program scholarships.

Two- and three-year **ROTC Scholarships** paying tuition, fees, flat rates for books each semester, and subsistence allowances of \$100 per month are available to full-time students. Contact the Army or Air Force offices for additional information.

#### Installment Payment Plan

The University offers an installment Payment Plan (IPP) to the student who needs temporary help in paying tuition and housing. This must be repaid in full before the end of the term for which the money was borrowed. Information and applications are available at the IPP Office (Spicer Hall 105) (330) 972-5100.

Special long-term loans are available to selected students in certain fields who need partial help.

#### Student Employment

Check the "Student Job Board" near Simmons 178 or Spicer 119 for on- and offcampus part-time job listings. Register for the applicant pool in Spicer 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.

# **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.
- Family size.
- · Number of family members in college.
- Medical bills.
- 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 Proposal sent to the mailing address. If questions arise regarding your Financial Aid Award Proposal, either call or write the office for clarification. The Award Proposal must be returned to the Office of Student Financial Aid only if the student is declining some or all of the aid offered.

# **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 student's award proposals. If the 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**

Beginning with the 1997-98 award year, 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 transcrips (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, 1997). 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 of remaining funds 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 Students, Law Students, 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 Loan. The Federal Pell Grant, Ohio Instructional Grant and Federal Supplemental Educational Opportunity Grant may not be received. Postbaccalaureate students may 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 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 Progress

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 for each program. We anticipate that the information contained in this Bulletin will assist you with your questions regarding financial aid.

# 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 innacurate, 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 thet 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 FERP 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.

# **Refund/Repayment Schedule**

Anytime a student withdraws from classes and the student has received financial aid, one of the following refund policies will be followed depending on the student's status. (The refund schedule for which the student is eligible that results in the largest possible refund will be used.)

#### Prorata Refund Schedule:

(for all first-time, first-term aid recipients at The University of Akron)

100% through the 1st week of semester 80% through 2nd and 3rd week of semester 70% through 4th week of semester 60% through 4th week of semester 50% through 5th and 6th weeks of semester 50% through 7th and 8th week of semester 40% through 9th week of semester 0% after 9th week of semester

#### University Refund Schedule:

(for all students not meeting "Prorata" definition above)

100% through 1st week of semester 70% through 2nd week of semester 50% through 3rd week of semester 30% through 5th week of semester 0% after 5th week of semester

OR

### Federal Refund Schedule:

(for all students not meeting "Prorata" definition above)

100% through 1st day of class 90% 2nd day of class through 9th day of class 50% 10th day of class through end of 4th week of semester 25% 5th week through end of 8th week of semester 0% after 8th week of semester

### **Conditions of Refund**

If you totally withdraw and financial aid paid for your classes, the refund must be returned by the University to the financial aid programs before you receive any refund. The programs are reimbursed in the following order: Federal Unsubsidized Stafford Loan, Federal Subsidized Stafford Loan, Federal Parent PLUS Loan, Federal Perkins Loan, Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Nursing Student Loan, other Title IV aid, Ohio Instructional Grant, and finally, Scholarships.

Please be aware that this means, if you received a student loan and you totally withdraw, your refund will be returned to your lender to pay toward your student loan instead of being paid to you.

#### **Administrative Fee**

Your refund will be reduced by the exclusion of an administrative fee from the refund calculation. This administrative fee will amount to 5 percent of your total instructional charges but will not exceed \$100.

### 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:

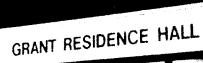
Office of Student Financial Aid Spicer Hall 119 The University of Akron Akron, OH 44325-6211 Phone: (330) 972-7032 or (800) 621-3847

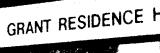
# SECTION FOUR

Undergraduate Academic Programs











# Community and Technical College

David A. Sam, Ph. D., *Dean* Michael M. Williams, Ph. D., *Associate 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 establishment and human service occupations; pre-service and in-service training for entry-level positions 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 the level of accomplishment.

The college offers both pre-service and in-service training; pre-service for the recent high school graduate who can receive an associate degree upon the satisfactory completion of two years of full-time studies; 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

# **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, and surveying and mapping. 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, or the Bachelor of Science in Mechanical 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 136 credits in BSAMET, 136 credits in BSMET, and 139 in the BSEET Program 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 offered as a "plus-two" program the second two years of a baccalaureate 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	n-year requirements:	Credits
3300:112	English Composition	3
3400:210	Humanities in the Western Tradition I	4
XXXXXXXX	Humanities Requirement (see adviser)	
XXXX:XXX	Area Studies/Cultural Diversity Requirement (see adviser)	4
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	
2040:247	Survey of Basic Economics	3
2030:345	Basic Techniques for Data Analysis	2
2030:356	Calculus for Technical Applications	3
2820:310	Programming for Technologists	2
2820:111	Introductory Chemistry	3
2870:301	Computer Control of Automated Systems	3
2870:311	Computer Aided Drafting II	2
2870:420	Materials and Processes	2
2870:470	Simulation of Manufacturing Systems	2
2870:480	Automated Manufacturing	2
2870:490	Manufacturing Project	2
2920:310	Economics of Technology	3
2920:348	CNC Programming I	3
2920:448	CNC Programming II	3
2940:210	Computer Alded Drawing I	3
6500:301	Management: Principles and Concepts	3
6500:330	Principles of Operations Management	3
6500:435	Quality Control	3
	Technical Electives	5

### Bachelor of Science in Electronic Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology) (TAC of ABET)

For the first- and second-year requirements, see associate degree program in 2860: Electronic Engineering Technology.

Third- and fourth-year	requirements:
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Thid and touring a requirements:					
3300:112	English Composition	3			
3400:210	Humanities in the Western Tradition I	4			
XXXX:XXX	Humanities Requirement (see adviser)	6			
XXXX:XXX	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			

		oround
2860:400	Computer Simulations in Technology	3
2860:406	Communication Systems	3
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	chnology Electives:	
2860:451	Industrial Electronic Systems	
	OF	
2860:420	Biomedical Electronic Instrumentation	3
	or	
2860:430	Senior Topics in Electronic Technology	

Credits

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) (TAC of ABET)

For first- and second-year requirements, see associate degree program in mechanical engineering technology.

	th-year 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
2920:348	CNC Programming	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
XXXX:XXX	Area Studies/Cultural Diversity Requirement (see adviser)	4
	Technical Elective	3

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\***

The modern surveyor must be reasonably knowledgeable in all of the surveying and some of the mapping related specialties. The B.S. in Surveying and Mapping degree is designed to give future professionals in the surveying and mapping sciences a broad base of knowledge covering all phases of surveying and mapping. This degree is also designed to meet the formal education requirements for registration as a Professional Surveyor in the state of Ohio.

The surveying portion of the B.S. in Surveying and Mapping degree includes instruction in: control surveys, route surveys, engineering and construction surveys, as well as land surveys for property and boundary retracement, land subdivision, topographic and site surveys.

A surveyor is a professional who determines accurate distances, directions, areas, volumes and positions of natural or cultural/man-made features with respect to the earth's surface. Survey data is commonly displayed and communicated both numerically and graphically in the form of maps, plats and computergenerated graphics, as well as the traditional printed data, surveying descriptions and photographically-based media. A surveyor is not only a measurement and computational analyst, but also a land boundary analyst. Land boundaries and engineering works are best represented through graphic portrayal, such as a map or plan. The mapping portion of the degree places emphasis on large scale mapping requirements that surveyors are routinely required to perform, including topographic surveys, site, boundary, route maps/plans and subdivision plans. Both hand-drawn and computer-aided drafting (CAD) techniques are taught in this program.

The B.S. in Surveying and Mapping degree program includes classroom, laboratory, and industry experiences which stress the application of established surveying and mapping knowledge and methods to the solution of land use and mensuration problems.

During the first and second years, a student follows an associate degree program in surveying and construction. This A.A.S. degree is intended for the student who desires work as a surveying technician. The student can then elect to seek employment as a technician or take the next step in becoming a professional surveyor. The last three years provide the additional study required for the baccalaureate degree. Course substitutions may be made with the approval of the Dean of the College.

The cooperative program provides for a coordinated sequence of alternate periods of classroom instruction and employment during the two-plus-three program. 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 assignment.

#### Requirements for graduation

- Compliance with general University requirements for a baccalaureate degree as listed in this Bulletin.
- Compliance with requirements of the General Education Requirement as outlined in this Bulletin (see University College).
- Completion of the requirements for the associate degree in Surveying and Construction Engineering Technology, Surveying Option, at The University of Akron or an approved associate degree program with a surveying option/major at another accredited institution. Students transferring from another institution must have their transcripts evaluated to insure that they have the required number of credits in surveying and mapping courses. Those found deficient must complete lower level surveying course work before upper level surveying or mapping courses can be taken.
- Successful completion of a minimum 137 credits in the B.S, in Surveying and Mapping program including the associate degree program, the general education courses, a one-year co-op, and the following course requirements:

Third- and fourth-	Credits	
3300:112	3	
3400:210	Humanities in the Western Tradition I	4
XXXXXXXXX	Humanities Requirement (see adviser)	6
XXXXX:XXX	Area Studies/Cultural Diversity Requirement (see adviser)	4
2030:345	Basic Techniques for Data Analysis	2
2030:356	Calculus for Technical Applications	3
2430:185	Real Estate Law	2
2920:310	Programming for Technologists	2
2940:210	Economics of Technology	3
2980:310	Computer Aided Drawing	3
2980:320	Applied Photogrammetry for Surveyors	3
3980:320	Survey Computations and Adjustment	3
2980:410	Boundary Surveying	3
2980:430	Surveying Project	3
3350:405	Geographic Information Systems	3
3350:444	Map Compilation and Reproduction	3
3350:448	Automated Computer Mapping	3
6500:301	Management Principles and Concepts	3
	Technical Electives	6
	Surveying Electives	6

# ASSOCIATE DEGREE PROGRAMS OF INSTRUCTION

Specialized technical programs are offered in the following divisions of the college:

Allied Health Technology Associate Studies Business Technology

Engineering and Science Technology Public Service Technology

This program has been approved by the Board of Trustees but will not be offered until approved by the Ohio Board of Regents.

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 earn a minimum of 16 credits in residence which have not counted toward the student's first degree.

# **Allied Health**

### 2730: Histologic Technology \*

A histologic technician prepares sections of body tissue for microscopic examination by a pathologist. The technician specializes in techniques involving the use of the electron microscope and special studies which determine a patient's diagnosis.

Credits

		Credits
2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of Math II	2
2030:153	Elements of Math III	2
2040:240	Human Relations	3
2040:242	American Urban Society	3
2730:225	Histotechnology Practicum	5
2740:120	Medical Terminology	3
2820:111	Introductory Chemistry	3
2820:112	Introductory and Analytical Chemistry	3
3100:111	Principles of Biology	4
3100:112	Principles of Biology	4
3100:130	Principles of Microbiology	3
3100:265	Introduction to Human Physiology	4
3100:365	Histology I	3
3100:366	Histology II	3
3850:342	Sociology of Health and Illness	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
	Electives	7

### 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.

2020:121	English	4
		-
2040:240	Human Relations	3
2040:244	Death and Dying	2
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2440:155	Introduction to Windows	1
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:129	Information/Records Management	3
2540:151	Intermediate Word Processing	3
2740:100	Introduction to Medical Assisting	2
2740:120	Medical Terminology	3
2740:121	Study of Disease Process for Medical Assisting	3
2740:135	Medical Assisting Techniques I	4
2740:230	Basic Pharmacology	3

		Credits
2740:235	Medical Assisting Techniques II	4
2740:240	Medical Machine Transcription	3
2740:241	Medical Records	3
2740:260	Externship in Medical Assisting	3
2780:106,7	Anatomy and Physiology for Allied Health I, II	6
5540:xxx	Physical Education	1
5550:211	First Aid and CPR	2
7600:105	Introduction to Public Speaking	3
	or	
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 two area hospital schools 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
2780:106	Anatomy and Physiology for Allied Health I	3
	or	
3100:208	Human Anatomy and Physiology	4
2780:107	Anatomy and Physiology for Allied Health II	3
	or	
3100:209	Human Anatomy and Physiology	4
2760:161	Physical Science for Radiologic Technology I	2
2760:165	Radiographic Principles	3
2760:261	Physical Science for Radiologic Technology II	3
3750:100	Introduction to Psychology	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

	<b>J</b>	
2020:121	English	4
2030:130	Introduction to Technical Mathematics	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2740:120	Medical Terminology	3
2740:230	Basic Pharmacology	3
2770:100	Introduction to Surgical Assisting Technology	4
2770:121	Surgical Assisting Procedures I	2
2770:131	Clinical Application I	2
2770:148	Surgical Anatomy I	3
2770:222	Surgical Assisting Procedures II	4
2770:232	Clinical Application I	5
2770:233	Clinical Application III	5
2820:105	Basic Chemistry	3
3100:130	Principles of Microbiology	3
3100:208	Human Anatomy and Physiology	4
3100:209	Human Anatomy and Physiology	4
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Elective	2
Surgeon's	Assistant Option (Inactive)	
2020:121	English	4
2040:240	Human Relations	3
2040:242	American Urban Society	3

\* Deadline for application to the program is April 15.

		Credits
2740:120	Medical Terminology	3
2740:230	Basic Pharmacology	3
2770:100	Introduction to Surgical Assisting Technology	4
2770:121	Surgical Assisting Procedures I	2
2770:148	Surgical Anatomy I	3
2770:151	Clinical Experience I	2
2770:152	Clinical Experience II	3
2770:153	Clinical Experience III	5
2770:243	Introduction to Medicine	2
2770:244	Medical History and Physical Evaluation	2
2770:245	Roentgenogram Assessment	1
2770:246	Medical Laboratory Procedures	1
2770:247	Pulmonary Assessment and Electrocardiography	2
2770:249	Surgical Anatomy II	3
5540;xxx	Physical Education	1
7600:106	Effective Oral Communication	3
2770:254	Clinical Experience IV	3
2770:255	Clinical Experience V	5
2770:256	Primary Care: Clinical Experience	2
3100:130	Principles of Microbiology	3
3100:208	Anatomy and Physiology	4
3100:209	Anatomy and Physiology	4
	General Electives	3

### 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
2020:222	Technical Report Writing	3
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, #	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
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	Electives	2

# **Associate Studies**

### 2020: 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.

2020:121	English	4
3300:112	English Composition II	3
XXXX:XXX	Natural Science Requirement †	8
XXXX:XXX	Area Studies/Cultural Diversity Requirement (see adviser)	4
3400:210	Humanities in the Western Tradition I (see adviser)	4
XXXX:XXX	Humanities Requirement	6
2040:240	Human Relations ‡‡	3
2040:242	American Urban Society ##	3
2040:247	Survey of Basic Economics ##	3
XXXX:XXX	Math Requirement	4
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
	Or	
7600:106	Effective Oral Communication	3
	Electives	21

Deadline for application to the program is April 15.

† At least two courses, one of which must be a lab course

## See "The University College," Section 4 of this Bulletin for alternate course options.

### 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.

67

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:

Credits

- 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.

### 2240: Commercial Art (Inactive)

This program enables individuals to gain skills as artists and designers for employment involving the development of materials included in visual advertising and communication for art studios, advertising agencies, and industry.

		Credits
2020:121	English	4
2030:151	Elements of Math I	2
2030:152	Elements of Math II	2
2240:124	Design in Commercial Art	3
2240:130	Marker Rendering	3
2240:140	Typography and Lettering	3
2240:242	Advertising Layout Design	3
2240:245	Designing for Production	3
2240:247	Packaging Design	3
2240:248	Publication Design	3
2300:122	Introduction to Commercial Photography	3
2440:120	Computer and Software Fundamentals	2
2520:103	Advertising Principles	3
5540:xxx	Physical Education	1
7100:131	Introduction to Drawing	3
7100:132	Instrument Drawing	3
7100:233	Life Drawing	3
7100:275	Introduction to Photography	3
	Technical Studio Electives	7
	General Electives	7

The seven hours of Technical Studio Electives must come from the following list of courses:

2240:290	Special Topics: Commercial Art (Any and all listings)	1-3	
2240:290	Special Topics: Offset Lithography	3	
2240:290	Special Topics: Beginning Typesetting	3	
2240:295	Practicum in Commercial Art	1-3	
2300:160	Portrait/Fashion Photography	3	
2300:170	Illustration/Advertising Photography	3	
2300:230	Multi-Image Production	3	
2300:250	Advanced Commercial Photography	3	
2300:260	Professional Photographic Practices	3	
7100:185	Computer Graphics for Art I	3	
7100:214	Introduction to Screen Printing	3	
7100:215	Introduction to Relief Printing	3	
7100:216	Introduction to Intaglio Printing	3	
7100:246	Introduction to Watercolor Painting	3	
7100:248	Introduction to Airbrush Painting	3	
7100:283	Drawing Techniques	3	
7100:285	Computer Graphics for Art II	3	

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		Credits
7100:317	Printmaking II	3
7100:385	Computer Graphics for Art III	3
7100:480	Advanced Graphic Design	3
7100:482	Corporate Identity & Graphic Systems	3
7100:484	Illustration	3
7100:485	Advanced Illustration	3
7100:489	ST: Illustrative Cartooning	3
7100:491	Architectural Presentations I	3
7100:492	Architectural Presentations II	3

It is recommended that the seven hours of General Electives for both Commercial Art and Commercial Photography majors come from the following list of courses:

2020:222	Technical Report Writing	3
2020:224	Writing for Advertising	4
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
2040:251	Human Behavior at Work	3
2040:254	The Black American	2

#### 2300: Commercial Photography (Inactive)

The Commercial Photography program provides comprehensive hands-on training in varied commercial photography specialties, preparing students for entry-level employment in commercial photography studios, professional portrait studios, advertising agencies and industry.

2020:121	English	4
2020:224	Writing for Advertising	4
2030:151	Elements of Math i	2
2030:152	Elements of Math II	2
2040:240	Human Relations	
	or	
2040:251	Human Behavior at Work	3
2240:124	Design in Commercial Art	3
2300:122	Intro to Commercial Photography	3
2300:160	Portrait/Fashion Photography	3
2300:170	Illustration/Advertising Photography	3
2300:230	Multi-Image Production	3
2300:240	Commercial Photography Practicum	3
2300:241	Commercial Photography Practicum Evaluation	1
2300:250	Advanced Commercial Photography	3
2300:260	Professional Photographic Practices	3
2300:270	Commercial Photography Portfolio	1
2300:290	Special Topics: Commercial Photography	1-3
7100:131	Introduction to Drawing	3
7100:275	Introduction to Photography	3
	Technical Studio Electives	9
	General Electives	5
The pipe have	e of Tashaisal Studio Electivos for Commorsial Ph	otography mais

The nine hours of Technical Studio Electives for Commercial Photography majors must come from the following list of courses:

2240:130	Marker Rendering	3
2240:140	Typography and Lettering	3
2240:242	Advertising Layout Design	3
2240:245	Designing for Production	3
2240:247	Packaging Design	3
2240:248	Publication Design	3
2240:290	Special Topics: Commercial Art (Any and all listings)	1-3
2300:290	Special Topics: Commercial Photography (Any and all listings)	1-3
7100:121	Three-Dimensional Design	3
7100:144	Two-Dimensional Design	3
7100:213	Introduction to Lithography	3
7100:214	Introduction to Screen Printing	3
7100:215	Introduction to Relief Printing	3
7100:216	Introduction to Intaglio Printing	3
7100:222	Introduction to Sculpture	3
7100:231	Drawing II	3
7100:233	Life Drawing	3
7100:246	Introduction to Watercolor Painting	3
7100:254	Introduction to Ceramics	3
7100:266	Introduction to Metals	3
7100:283	Drawing Techniques	3
7100:285	Computer Graphics for Art II	3
7100:317	Printmaking II	3
7100:375	Photography !!	3
7100:385	Computer Graphics f. Art III	3
7100:475	Advanced Photograpi	3

# **Business Technology**

## 2280: Hospitality Management

Provides the general knowledge and skills necessary for success within the multifaceted hospitality industry.

11

# Options

#### Culinary Arts

Culinary Arts		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	3
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	2
2280:237	Internship	1
2280:233	Restaurant Operations and Management	4
2280:245	Menu, Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2280:261	Baking and Classical Desserts	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2540:263	Business Communications	3
7400:133	Nutrition Fundamentals	3
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	3
Restaurant Ma	nagement	
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	3
2280:121	Fundamentals of Food Preparation I	4
2280:122	Fundamentals of Food Preparation	4
2280:160	Wine and Beverage Service	3
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	2
2280:233	Restaurant Operations and Management	4
2280:237	Internship	1
2280:240	Systems Management and Personnel	3
2280:243	Food Equipment and Plant Operations	3
2280:245	Menu, Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2420:104	Introduction to Business	3
2420:117	Small Business Development	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2540:263	Business Communications	3
2520:103	Principles of Advertising	3
7600:105	Introduction to Public Speaking	3
7600:106	or Effective Oral Communication	3
Hotel/Motel M	lanagement	
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	3
2280:121	Fundamentals of Food Preparation	4
2280:160	Wine and Beverage Service	3
2280:232	Dining Room Service and Training	2
2280:233	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	Revenue Centers	3
2280:278	Hotel Catering and Marketing	3
2420:111	Public Relations	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting 1	3
2440:120	Computer and Software Fundamentals	2
2520:212	Principles of Sales	3

Credits

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		Credits		
2540:263	Business Communications	3	2420:217	Survey of Taxation *
7600:105	Introduction to Public Speaking	3	2420:243	Survey in Finance
7000.100	or Effective Oral Communication	3	2420:280	Essentials of Business Law
7600:106	Effective Oral Communication	3	2440:120	Computer and Software Fundamentals
Hotel Marke	ting and Sales		2440:125	Spreadsheet Software
2020:121	English	4	2440:151	PC DOS Fundamentals
2040:240	Human Relations	3	2440:245	Introduction to Database for Micros
2040:247	Survey of Basic Economics	3	2540:119	Business English
2280:101	Introduction to Hospitality	3	2540:xxx	Skills Elective †
2280:120	Safety and Sanitation	3	5540:xxx	Physical Education
2280:121	Fundamentals of Food Preparation I	4	7600:106	Effective Oral Communication
2280:160	Wine and Beverage Service	3	Banking (Ina	rtive)
2280:232	Dining Room Service and Training	2	2020:121	English
2280:233	Restaurant Operations and Management	4	2040:240	Human Relations
2280:237	Internship	1	2040.240	Or
2280:240	Systems Management and Personnel	3	3750:100	Introduction to Psychology
2280:243	Food Equipment and Plant Operations	3	2020:247	Survey of Basic Economics
2280:245	Menu, Purchasing and Cost Control	4	2420:101	Essentials of Marketing Technology
2280:256	Hospitality Law	3	2420:103	Role of Supervision in Management
2280:268	Revenue Centers	3	2420:104	Introduction to Business
2280:278	Hotel Catering and Marketing	3	2420:113	Introduction to Banking
2420:104	Introduction to Business	3	2420:123	Federal Regulation of Banking
2420:170	Business Mathematics	3	2420:170	Business Mathematics
2420:211	Basic Accounting I	3	2420:202	Personnel Practices
2540:263	Business Communications	3	2420:211	Basic Accounting (
2520:103	Principles of Advertising	3	2420:212	Basic Accounting II
2520:202	Retailing Fundamentals	3	2420:233	Installment Credit
2520:212	Principles of Sales	3	2420:243	Survey in Finance
2540:263	Business Communications	3	2420:253	Elements of Bank Management
7600:105	Introduction to Public Speaking	3	2420:273	Monetary Systems and the Payments Me
	or		2420:280	Essentials of Business Law
7600:106	Effective Oral Communication	3	2430:105	Real Estate Principles
			0.400.045	Dal Chata Carrier

## 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
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business	3
2420:111	Public Relations	2
2420:170	Business Mathematics	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:119	Business English	3
2540:263	Business Communications	3
2560:110	Principles of Transportation	3
2880:232	Labor Management Relations	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking or	З
7600:106	Effective Oral Communication	3
	Electives	5
Accounting		
2020:121	English	4
2040:240	Human Relations or	3
2040:251	Human Behavior at Work	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology or	3
2420:202	Personnel Practices	3
2420:103	Role of Supervision in Management	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:213	Basic Accounting III	3
2420:214	Essentials of Intermediate Accounting *	3
2420:216	Survey of Cost Accounting*	3

2420:217	Survey of Taxation *	4
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:151	PC DOS Fundamentais	1
2440:245	Introduction to Database for Micros	3
2540:119	Business English	3
2540:xxx	Skills Elective †	2
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
		3
Banking (Inactiv	/e}	
2020:121	English	4
2040:240	Human Relations	3
	Or	
3750:100	Introduction to Psychology	3
2020:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:103	Role of Supervision in Management	3
2420:104	Introduction to Business	3
2420:113	Introduction to Banking	2
2420:123	Federal Regulation of Banking	2
2420:170	Business Mathematics	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting (	3
2420:212	Basic Accounting I	3
2420:233	· · · · · · · · · · · · · · · · · · ·	2
	Installment Credit	-
2420:243	Survey in Finance	3
2420:253	Elements of Bank Management	2
2420:273	Monetary Systems and the Payments Mechanism	3
2420:280	Essentials of Business Law	з
2430:105	Real Estate Principles	2
2430:245	Real Estate Finance	2
2440:120	Computer and Software Fundamentals	2
2540:119	Business English	з
2540:263	Business Communications	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
Credit Union (In		
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business	3
2420:105	Introduction to Credit Unions	2
2420:115	Credit Union Operations	2
2420:125	Personal Financial Counseling	
2420.120		3
	-	
2420:170	Business Mathematics	3
2420:170 2420:202	Business Mathematics Personnel Practices	3 3
2420:170 2420:202 2420:211	Business Mathematics Personnel Practices Basic Accounting I	3 3 3
2420:170 2420:202 2420:211 2420:212	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II	3 3 3 3
2420:170 2420:202 2420:211 2420:212 2420:212	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision	3 3 3 3 2
2420:170 2420:202 2420:211 2420:212 2420:221 2420:221 2420:225	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections	3 3 3 2 2
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:225 2420:243	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance	3 3 3 2 2 3
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:225 2420:243 2420:245	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management	3 3 3 2 2 3 2 3
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:245 2420:245	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law	3 3 3 2 2 3 2 3 3
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:280 2440:120	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals	3 3 2 2 3 2 3 2 3 2
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:245 2420:245	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English	3 3 3 2 2 3 2 3 2 3 2 3 2 3 3
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:280 2440:120	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals	3 3 3 2 2 3 2 3 2 3 3 3 3 3
2420:170 2420:202 2420:211 2420:221 2420:225 2420:243 2420:245 2420:245 2420:280 2440:120 2540:119	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English	3 3 3 2 2 3 2 3 2 3 2 3 2 3 3
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:245 2420:245 2420:240 2440:120 2540:119 2540:263	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications	3 3 3 2 2 3 2 3 2 3 3 3 3 3
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:245 2420:245 2420:280 2440:120 2540:119 2540:263 5540:xxx	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education	3 3 3 2 2 3 2 3 2 3 3 3 1
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:245 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business English Business Communications Physical Education Effective Oral Communication Technical Electives	3 3 2 2 3 2 3 2 3 3 3 1 3 3
2420:170 2420:202 2420:211 2420:221 2420:225 2420:243 2420:245 2420:280 2440:120 2540:120 2540:120 2540:263 5540:xxx 7600:106 Recommended El	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives:	3 3 2 2 3 2 3 2 3 3 1 3 2 3 2 3 2 2 3 2 2 3 2 3
2420:170 2420:202 2420:211 2420:221 2420:225 2420:243 2420:245 2420:245 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106 Recommended El 2420:101	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology	3 3 2 2 3 2 3 3 3 1 3 2 3 3 3 3 3 3 3 3
2420:170 2420:202 2420:211 2420:221 2420:221 2420:225 2420:243 2420:245 2420:245 2420:245 2420:245 2440:120 2540:120 2540:120 2540:101 8ecommended El 2420:101 2420:221	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision	3 3 2 2 3 2 3 2 3 3 1 3 2 3 3 1 3 2 3 2
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239	Business Mathematics Personnel Practices Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming	3 3 2 2 3 2 3 2 3 3 1 3 2 3 1 3 2 3 2 1
2420:170 2420:202 2420:211 2420:221 2420:221 2420:225 2420:243 2420:245 2420:245 2420:245 2420:245 2440:120 2540:120 2540:120 2540:101 8ecommended El 2420:101 2420:221	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision	3 3 2 2 3 2 3 2 3 3 1 3 2 3 3 1 3 2 3 2
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG I//II Programming Labor-Management Relations	3 3 2 2 3 2 3 2 3 3 1 3 2 3 1 3 2 3 2 1
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:245 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232	Business Mathematics Personnel Practices Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming Labor-Management Relations	3 3 2 2 3 2 3 2 3 3 1 3 2 3 1 3 2 3 2 1
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:243 2420:280 2440:120 2540:280 2440:120 2540:280 2440:120 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232 Data Administra	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming Labor-Management Relations	3 3 2 2 3 2 3 2 3 3 1 3 2 3 2 3 2 1 3 2 1 3
2420:170 2420:202 2420:211 2420:221 2420:225 2420:243 2420:245 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232 <b>Data Administra</b> 2020:121	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming Labor-Management Relations English Introduction to Technical Mathematics	3 3 2 2 3 2 3 3 1 3 2 3 3 2 1 3 2 1 3 2 1 3 4
2420:170 2420:202 2420:211 2420:221 2420:221 2420:225 2420:243 2420:245 2420:245 2420:245 2420:280 2440:120 2540:109 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232 <b>Data Administra</b> 2020:121 2030:130	Business Mathematics Personnel Practices Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business Communications Physical Education Effective Oral Communication Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming Labor-Management Relations english Introduction to Technical Mathematiks or	3 3 2 2 3 2 3 3 1 3 2 3 3 2 1 3 2 1 3 2 1 3 4
2420:170 2420:202 2420:211 2420:212 2420:221 2420:225 2420:243 2420:245 2420:280 2440:120 2540:280 2440:120 2540:280 2440:120 2540:263 5540:xxx 7600:106 Recommended El 2420:101	Business Mathematics Personnel Practices Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming Labor-Management Relations english Introduction to Technical Mathematics or Essentials of Marketing Technology	3 3 2 2 3 2 3 2 3 3 1 3 2 3 3 1 3 2 1 3 2 1 3 4 3
2420:170 2420:202 2420:211 2420:221 2420:221 2420:225 2420:243 2420:245 2420:280 2440:120 2540:119 2540:280 2440:120 2540:101 2540:203 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232 <b>Data Administra</b> 2020:121 2030:130 2420:101 2040:240	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG It/III Programming Labor-Management Relations effort on Technical Mathematics or Essentials of Marketing Technology Human Relations	3 3 2 2 3 2 3 2 3 3 1 3 2 3 3 2 1 3 2 1 3 4 3 3 3 3
2420:170 2420:202 2420:211 2420:221 2420:221 2420:225 2420:245 2420:245 2420:280 2440:120 2540:119 2540:263 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232 <b>Data Administra</b> 2020:121 2030:130 2420:101 2040:240 2040:247	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Basic Accounting II Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG II/III Programming Labor-Management Relations Bition English Introduction to Technical Mathematics or Essentials of Marketing Technology Human Relations Survey of Basic Economics	3 3 2 2 3 2 3 2 3 3 1 3 2 3 3 2 1 3 2 1 3 2 1 3 3 3 3
2420:170 2420:202 2420:211 2420:221 2420:221 2420:225 2420:243 2420:245 2420:280 2440:120 2540:119 2540:280 2440:120 2540:101 2540:203 5540:xxx 7600:106 Recommended El 2420:101 2420:221 2440:239 2880:232 <b>Data Administra</b> 2020:121 2030:130 2420:101 2040:240	Business Mathematics Personnel Practices Basic Accounting I Basic Accounting I Administrative Office Supervision Credit Union Lending and Collections Survey in Finance Credit Union Financial Management Essentials of Business Law Computer and Software Fundamentals Business English Business Communications Physical Education Effective Oral Communication Technical Electives lectives: Essentials of Marketing Technology Administrative Office Supervision RPG It/III Programming Labor-Management Relations effort on Technical Mathematics or Essentials of Marketing Technology Human Relations	3 3 2 2 3 2 3 2 3 3 1 3 2 3 3 2 1 3 2 1 3 4 3 3 3 3

**Business Mathematics** \* Course is not transferable to College of Business Administration.

2420:170

† Student shall select one of the following courses: 25 40:125 Electronic Business Calculations (2); 2540:140 Keyboarding for Nonmajors (2); 2540:141 PC W ord Processing for Nonmajors (2).

Course is not transferable to College of Business Administration.

		Credits
2420:202	Personnel Practices	3
2420:201	Basic Accounting I	3
2420:212	Basic Accounting I	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2440:121	Introduction to Programming Logic	2
2440:125	Spreadsheet Software	2
2440:123	Structured COBOL Programming	2
2440:151	PC DOS Fundamentals	1
2440:220	Software Applications for Business	2
2440:245	Introduction to Database for Micros	- 3
2540:119	Business English	3
2540:263	Business Communications	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
/000.100	Electives	3
C		0
	ess Management	
2020:121	English	. 4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business	3 3
2420:117	Small Business Development	-
2420:118	Small Business Management and Operations	3
2420:170	Business Mathematics	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting I	3
2420:227	Entrepreneurship Projects	4
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2450:119	Business English	3
2520:103	Principles of Advertising	3
2540:263	Business Communications	3
	Electives	2
Recommende		
2040:254	The Black American	2
2420:111	Public Relations	2
2420:233	Installment Credit	2
2520:106	Visual Promotion	3
2520:201	Principles of Wholesaling	2 3
2520:202	Retailing Fundamentals Consumer Service Fundamentals	3
2520:210 2520:211	Mathematics for Retail Distribution	2
2520:211 2520:212	Principles of Sales	3
2540:140	Keyboarding for Nonmajors	2
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
		•

#### 2430: Real Estate (Inactive)

Designed to educate the student in all areas of the field, this program prepares students for entry-level positions in sales and management in the real estate industry through the study of products, professions and processes involving real estate.

2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:243	Survey in Finance	3
2420:280	Essentials of Busines:3 Law	3
2430:105	Real Estate Principles	2
2430:185	Real Estate Law	2
2430:245	Real Estate Financing	2
2430:255	Valuation of Residentia I Property	2
2430:265	Real Estate Brokerage	2
2430:275	Real Estate Project	2
2440:120	Computer and Software Fundamentals	2
2520:212	Principles of Sales	3
2540:119	Business English	3
2540:263	Business Communicatio ns	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
	or	•
7600:106	Effective Oral Communication	3
	Electives	6

# 2440: Computer Programming Technology

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.

omputers to s	olve busiliess problems.	Credits
2020:121	English	4
2030:151	Elements of Math I	2
2030:161	Math for Modern Technology	4
2020:222	Technical Report Writing or	3
2540:263	Business Communications	3
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business	3
2420:211,12	Basic Accounting I, II	6
2440:120	Computer and Software Fundamentals	. 2
2440:121	Introduction to Programming Logic	2
2440:131	Introduction to Programming	2
2440:132	Assembler Programming	2
2440:133	Structured COBOL Programming	3
2440:234	Advanced COBOL Programming	3
2440:241	Systems Analysis and Design	3
2440:251	Computer Applications Projects	4
2440:252	Job Control Language	2
2440:263	Database Concepts	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	3
	Computer Programming Electives	5
	ramming Electives:	
2440:230	Visual Basic	3
2440:235	Current Programming Topics	2
2440:239	RPG II/III Programming	2
2440:243	Information Center Practicum	3
2440:261	CICS	3
2440:262	COBOL Efficiency	2
2440:267	4GL for Micros	3
2440:269	C Programming and UNIX	3
2440:270	Network Management i	4
2440:272	Network Technologies	2
2440:274	Novell: Service and Support	4
2440:276	Novell: Network Management II	4

## 2520: Marketing and Sales Technology

This program equips graduates to fill entry-level positions in distributive business areas including retailing, industrial distribution and fashion.

#### Core Program

Corerroy	ann	
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2520:103	Principles of Advertising	3
2520:106	Visual Promotion	3
2520:202	Retailing Fundamentals	3
2520:210	Consumer Service Fundamentals	2
2520:211	Mathematics of Retail Distribution	3
2520:212	Principles of Sales	3
2540:263	Business Communications	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
	Option Requirements	16
Suggested El	ectives:	
2520:221	AAF Advertising Campaign I	2
2520:222	AAF Advertising Campaign II	2
Options		
Advertising		
Required Tec	hnical Courses:	
2020:224	Writing for Advertising	4
2420:104	Introduction to Business	3
2520:215	Advertising Projects and	2
2520:217	Merchandising Projects or	2
2520:219	Sales Projects	2
2520:234	Humor in Advertising	2
	Electives	3

Suggested Ele		Credits	International	Secretarial
2420:243	Survey in Finance	3	2020:121	English
2520:221	AAF Advertising Campaign I	2	2040:240	Human Rela
2520:222	AAF Advertising Campaign II	2	2040:247	Survey of Ba
Computer Sa	les (Inactive)		2420:104	Introduction
2440:125	Spreadsheet Software	2	2420:170	Business M
2440:123	PC DOS	1	2420:211	Basic Accou
2440:247	Microcomputer Hardware and Software Selection	3	2440:120	Computer a
2520:217	Merchandising Projects	2	2440:125	Spreadshee
2520:219	Sales Projects	2	2440:155	Introduction
2540:140	Keyboarding for Non-Majors	2	2540:119	Business Er
2540.140	or	2	2540:121	Introduction
2540:141	Wordperfect, Beginning	2	2540:129	Information/
2040.141	Electives	4	2540:151	Intermediate
	Electives	4	2540:243	Internship
ashion			2540:253	Advanced V
2420:104	Introduction to Business	3	2540:263	Business Co
7400:225	Textiles	3	2540:270	Office Softw
7400:219	Clothing Communication	3	2540:281	Editing/Proo
7400:221	Evaluation of Apparel	3	3500:xxx	Beginning F
7400:239	The Fashion Industry	3	3500:xxx	Intermediate
	Elective	1	5540:xxx	Physical Edu
Suggested ele			7600:105	Introduction
2520:217	Merchandising Projects	2		or
2520.217	Merchanolsing Projects	2	7600:106	Effective Or
Retailing				211000110 01
2420:104	Introduction to Business	3		
2420:243	Survey in Finance	3	Legal Secret	arial (Inactive
2520:215	Advertising Projects	2	2020:121	English
	or	_	2040:240	Human Rela
2520:219	Sales Projects	2	2040:247	Survey of Ba
2520:217	Merchandising Projects	2	2420:104	Introduction
	Electives	6	2420:170	Business M
		•	2420:211	Basic Accou
Sales			2420:280	Essentials o
Required Court			2540:119	Business Er
2420:104	Introduction to Business	3	2540:121	Introduction
2420:243	Survey in Finance	3	2540:129	Information/
2520:215	Advertising Projects	2	2540:130	Introduction
2520:217	Merchandising Projects	2	2540:151	Intermediate
2520:219	Sales Projects	2	2540:243	Internship
	Electives	4	2540:253	Advanced W
Suggested Ele	actives:		2540:255	Legal Office
2520:221	AAF Advertising Campaign I	2	2540:263	Business Co
2520:221	AAF Advertising Campaign I	2	2540:270	Office Softw
2320.222		2	2540:279	Legal Office
				Editing/Proo
			2540:281	
	ice Administration		2540:281 5540:xxx	Physical Edu

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

# Medical Secretarial

etanai	
English	4
Human Relations	3
Death and Dying	2
Business Mathematics	3
Basic Accounting }	3
Computer and Software Fundamentals	2
Business English	3
Intro to Office Procedures	3
Information/Records Management	3
Intermediate Word Processing	3
Internship	3
Advanced Word Processing	3
Business Communications	3
Office Software Applications	4
Intro to Medical Assisting	2
Medical Terminology	3
Study of Disease Processes for Medical Assisting	3
Medical Machine Transcription	3
Medical Records	3
Physical Education	1
First Aid and CPR	2
Electives	1
	English Human Relations Death and Dying Business Mathematics Basic Accounting 1 Computer and Software Fundamentals Business English Intro to Office Procedures Information/Records Management Intermediate Word Processing Internship Advanced Word Processing Business Communications Office Software Applications Intro to Medical Assisting Medical Terminology Study of Disease Processes for Medical Assisting Medical Terminology Study of Disease Processes for Medical Assisting Medical Machine Transcription Medical Records Physical Education First Aid and CPR

International	Secretarial	Credits
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:155	Introduction to Windows	1
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:129	Information/Records Management	3
2540:151	Intermediate Word Processing	3
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:270	Office Software Applications	4
2540:281	Editing/Proofreading/Transcription	3
3500:xxx	Beginning Foreign Language I and II	8
3500:xxx	Intermediate Foreign Language I and II	6
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	4
Legal Secreta	nial (Inactive)	
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	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
2540:129	Information/Records Management	3
2540:120	Introduction to Office Automation	4
2540:150	Intermediate Word Processing	4
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:255	-	
	Legal Office Procedures I	3
2540:263	Business Communications	3
2540:270	Office Software Applications	4
2540:279	Legal Office Procedures II	4
2540:281	Editing/Proofreading/Transcription	3
5540:xxx	Physical Education	1
	General Elective	2
Suggested Ele	ctives:	
2040:242	American Urban Society	3
2040:241	Technology and Human Values	3
2040:244	Death and Dying	2
2040:251	Human Behavior at Work	3
2040:254	The Black American	2
Administrativ	ve Assistant	
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:125	Introduction to Windows	1
2540:119	Business English	3
2540:113	Introduction to Office Procedures	3
2540:121	Information/Records Management	3
2540:125 2540:151	Intermediate Word Processing	3
2540:151	Internship	3
2540:253	Advanced Word Processing	3
2540:253	Business Communications	3
2540:203	Office Software Applications	4
		4
2540:271	Desktop Publishing	-
2540:271 2540:273	Computer-Based Graphic Presentations	3
2540:271 2540:273 2540:281	Computer-Based Graphic Presentations Editing/Proofreading/Transcription	3
2540:271 2540:273 2540:281 5540:xxx	Computer-Based Graphic Presentations Editing/Proofreadincy/Transcription Physical Education	3 3 1
2540:271 2540:273 2540:281	Computer-Based Graphic Presentations Editing/Proofreading/Transcription Physical Education Introduction to Public Speaking	3
2540:271 2540:273 2540:281 5540:xxx 7600:105	Computer-Based Graphic Presentations Editing/Proofreadincy/Transcription Physical Education Introduction to Public Speaking or	3 3 1 3
2540:271 2540:273 2540:281 5540:xxx	Computer-Based Graphic Presentations Editing/Proofreading/Transcription Physical Education Introduction to Public Speaking or Effective Oral Communication	3 3 1 3 4
2540:271 2540:273 2540:281 5540:xxx 7600:105 7600:106	Computer-Based Graphic Presentations Editing/Proofreading/Transcription Physical Education Introduction to Public Speaking or Effective Oral Communication Electives	3 3 1 3
2540:271 2540:273 2540:281 5540:xxx 7600:105	Computer-Based Graphic Presentations Editing/Proofreading/Transcription Physical Education Introduction to Public Speaking or Effective Oral Communication Electives	3 3 1 3 4

#### 72 The University of Akron 1997-98

		Credits			Credits
2040:242	American Urban Society	3	2560:116	Air Transportation	2
2040:244	Death and Dving	2	2560:118	Transportation Rate System	3
2040:251	Human Behavior at Work	3	2560:221	Traffic and Distribution Management	3
2040:254	Black American	2	2560:228	Introduction to Travel	2
2540:120	Keyboarding Skill Development	1	2560:229	Passenger Ticketing	2
2540:289	Career Development for Office Professionals	3	2560:230	Tour Planning and Packaging	2
			2560:231	Computerized Reservations I	2
	rmation Management (Inactive)		2560:232	Computerized Reservations II	2
2020:121	English	4	5540:xxx	Physical Education	1
2040:240	Human Relations	3	7600:105	Introduction to Public Speaking	3
2040:247	Survey of Basic Economics	3		or	
2420:104	Introduction to Business	3	7600:106	Effective Oral Communication	3
2420:170	Business Mathematics	3		Elective	1
2420:211	Basic Accounting I	3	<b>C</b>		
2540:119	Business English	3	General		
2540:121	Introduction to Office Procedures	3	2020:121	English	4
2540:129	Information/Records Management	3	2020:222	Technical Report Writing	3
2540:131	Computerized Document Control	4	2040:240	Human Relations	3
2540:151	Intermediate Word Processing	3	2040:247	Survey of Basic Economics	3
2540:243	Internship	3	2420:101	Essentials of Marketing Technology	3
2540:247	Automated Office Systems	4	2420:104	Introduction to Business	3
2540:248	Advanced Office Technologies	3	2420:170	Business Mathematics	3
2540:253	Advanced Keyboarding/Word Processing	3	2420:211	Basic Accounting I	3
2540:263	Business Communications	3	2420:280	Essentials of Business Law	3
2540:270	Office Software Applications	4	2440:120	Computer and Software Fundamentals	2
2540:281	Editing/Proofreading/Transcription	3	2540:119	Business English	3
5540:xxx	Physical Education	1	2540:263	Business Communications	3
	General Elective	2	2560:110	Principles of Transportation	3
Suggester	d General Electives:		2560:115	Motor Transportation	3
2040:242	American Urban Society	3	2560:116	Air Transportation	2
2040:242	Technology and Human Values	3	2560:117	Water Transportation	2
2040:241	Death and Dying	2	2560:118	Transportation Rate Systems	3
2040:251	Human Behavior at Work	3	2560:221	Traffic and Distribution Management	3
2040:251	The Black American	2	2560:222	Microcomputer Applications in Transportation	3
2040.204		-	2560:224	Transportation Regulation	3
			2560:227	Transportation of Hazardous Materials and Wastes	2
2552	Office Comisse (Inactive)		5540:xxx	Physical Education	1
2550:	Office Services (Inactive)		7600:105	Introduction to Public Speaking	3
7600:105	Introduction to Public Speaking	3		or	
2020:121	English	4	7600:106	Effective Oral Communication	3

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1 9

# **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 I	2
2030:152	Elements of Mathematics II	2
2040:240	Human Relations	3
2440:120	Computer and 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.

2020:121	English	4
2020:222	Technical Report Writing	3
2030:152	Elements of Mathematics II	2
2030:153	Elements of Mathematics III	2

# 2560: Transportation

This program is aimed at developing technical knowledge and skills in the area of transportation management.

#### Options

2040:240

2040:242

2040:247 2420:101

2420:104

2420:170

2420:211

2420:280

2540:119

2540:121

2540:150

2540:151

2540:253

2540:263

2540:275

2540:281

5540:xxx

Human Relations

or

American Urban Society

Introduction to Business

Essentials of Business Law

Beginning Word Processing

Advanced Word Processing

**Business Communications** 

Physical Education

General Electives

Intermediate Word Processing

Administrative Office Procedures

Editing/Proofreading/Transcription

Introduction to Office Procedures

**Business Mathematics** 

Basic Accounting |

Business English

Survey of Basic Economics

Essentials of Marketing Technology

#### Airline/Travel Industry

2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:104	Introduction to Business	3
2420:170	Business Mathematics	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2520:212	Principles of Sales	3
2540:119	Business English	3
2540:140	Keyboarding for Nonmajors	2
	OL	
2540:141	Wordperfect Beginning	2
2560:110	Principles of Transportation	3

		Credits
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 !	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.) (TAC of ABET) 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 If	2
2030:153	Elements of Mathematics III	2
2030:154	Elements of Math IV	3
2030:255	Elements of Calculus II	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2820:121	Technical Computations	1
2820:161	Technical Physics: Mechanics	2
2820:162	Technical Physics: Mechanics II	2
2820:164	Technical Physics: Heat and Light	2
2860:120	DC Circuits	4
2860:122	AC Circuits	3
2860:123	Electronic Devices	3
2860:136	Introduction to Digital Concepts	1
2860:225	Electronic Devices Applications	4
2860:231	Control Principles	3
2860:237	Digital Circuits	4
2860:238	Microprocessor Fundamentals	4
2860:242	Machinery and Controls	4
2860:251	Communications Circuits	3
2860:255	Electronic Design and Construction	2
2860:260	Electronics Project	2
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-Aided Manufacturing 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
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
2880:100	Basic Principles of Manufacturing Management	4
2880:130	Work Measurement and Cost Estimating	3
2880:151	Industrial Safety and Environmental Protection	2

		Credits
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
2920:130	Introduction to Hydraulics and Pneumatics	3
2920:348	CNC Programming I	3
2940:121	Technical Drawing I	3
2940:180	Introduction to CAD	1
5540:xxx	Physical Education	1
	Technical Electives	3
	General Electives	6
dustrial Super	vision 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 Behavior at Work	3
2420:103	Essentials of Management Technology	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:280	Essentials of Business Law	3
2820:131	Software Applications for Technology	1
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	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 (see below)	4
General Elective	(four credits required from following):	
2040:240	Human Relations	3
2040:241	Technology and Human Values	2
2040:242	American Urban Society	3
2040:254	The Black American	2

In

#### 2920: Mechanical Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.) (TAC of ABET)

This program prepares individuals to work as technicians in developing, designing, manufacturing, testing and servicing mechanical 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	3
2030:255	Elements of Calculus	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2820:121	Technical Computations	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	2
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 Thermai Energy	2
2920:251	Fluid Power	2
2920:252	Thermo-Fluids Laboratory	1
2940:121	Technical Drawing	3
2940:210	Computer Aided Drawing I	3
2980:125	Statics	3
2980:241	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.

		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
2040:240	Human Relations	3
2820:131	Software Applications for Technology	1
2880:110	Manufacturing Processes	2
2920:247	Technology of Machine Tools	3
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
2980:231	Building Construction	2
2980:250	Structural Drawing	2
3350:340	Cartography	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Electives	6
General Elec	tives:	
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 American	2

2980:237	Materials Testing I	2
2980:238	Materials Testing II	2
2980:241	Strength of Materials	3
2980:245	Cost Analysis and Estimating	3
2980:250	Structural Drafting	2
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
	or	
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	2
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 I	3
2940:180	Introduction to Computer Alded Drafting	1
2980:122	Basic Surveying	3
2980:123	Surveying Field Practice	2
2980:125	Statics	3
2980:222	Construction Surveying	3
2980:224	Land Surveying	3
2980:225	Advanced Surveying	4
2980:226	Subdivision Design	2
2980:232	Construction	3
2980:237	Materials Testing I	2
2980:241	Strength of Materials	3
3350:340	Cartography	3
5540:xxx	Physical Education	1
7600:105	Introduction Public Speaking	
	or	_
7600:106	Effective Oral Communications	3

# **Associate of Technical Studies**

The Associate of Technical Studies (ATS) program is available to adult "New Majority" 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.

#### 2960: Associate of Technical Studies — Automotive Technology

This program prepares persons to be competent automotive technicians with a breadth of general studies, which provides them with the communication and interaction skills needed for advancement in the automotive service industry.

The Community and Technical College of The University of Akron, the Portage Lakes Career Center in Greensburg, Ohio, and the Ford Motor Company cooperate in the program, which is known as ASSET (Automotive Student Service Educational Training). Students alternate school and employment in a Ford dealer-ship in approximately eight-week sessions. Selective admission.

## 2980: Surveying and Construction Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.) (TAC of ABET)

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		
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	2
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 I	3
2940:180	Introduction to Computer Alded Drafting	1
2980:122	Basic Surveying	3
2980:123	Surveying Field Practice	2
2980:125	Statics	3
2980:222	Construction Surveying	3
2980:231	Building Construction	2
2980:232	Construction	3
2980:234	Elements of Structures	3

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Credits

		Creaks
2020:222	Technical Report Writing	3
2030:130	Introduction to Technical Math	3
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
2040:251	Human Behavior at Work	3
2820:121	Technical Computations	1
2860:110	Basic Electricity and Electronics	4
2920:110	Fundamental Science for Automotive Technicians	4
5540:xxx	Physical Education	1
	Technical Credits from Portage Lakes Career Center	30

# **Public Service Technology**

#### 2200: Educational Technology

This program prepares individuals for employment as elementary aides, assisting the professional teacher; library technicians, assisting the professional librarian or information specialist; or child development 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.

#### Core Program

2020:121	English	4
2030:130	Introduction to Technical Math	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
5540:xxx	Physical Education	1
5550:211	First Aid	2
5850:295	Education Technician Field Experience	5
7600:106	Effective Oral Communication	3
	Option Requirements	40
<b>A</b>		

#### Options

Child Develo	pment 11	
2200:245	Infant/Toddler Day-Care Programs	3
2200:250	Observing and Recording Children's Behavior	3
5200:310	Introduction to Early Childhood Education	3
5200:315	Issues and Trends in Early Childhood Education	3
5200:360	Teaching in the Nursery Center	2
5200:370	Nursery Center Laboratory	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	Creative Activities for Pre-Kindergarten Children	4
7400:448	Before and After School Child Care	2
7400:460	Organization and Supervision of Child Care Centers	3
	Humanities Elective *	2-4
	General Elective	0-2

Voluntary Pre-Kindergarten Associate Certification is available. See coordinator for other requirements for certification.

#### Elementary Aide (Inactive)‡

		Creaits
2540:140	Keyboarding for Non-Majors	2
3750:100	Introduction to Psychology	3
5200:335	Teaching Language Arts	4
5850:207	Mechanics of Student Appraisal	3
	General Electives	28
Library Tech	nician (Inactive)	
2200:100	Introduction to Library Technology	3
2200:201	Processing, Cataloging and Classifying Materials	3
2200:202	Organizing and Operating Library Media Centers	3
2200:203	Materials Selection	2
2200:204	Reference Procedures	3
2200:205	Information Retrieval Systems in Library Technology	3
2540:140	Keyboarding for Non-Majors	2
2540:141	PC Word Processing for Non-Majors	2
3750:100	Introduction to Psychology	3
	General Electives	16

Note: Certain courses in the Library Technician option must be taken in sequence. Child Development must be taken the first semester to complete the degree in two years.

11 Must complete 7400:265, 275 and 5200:360, 370 and 310 before taking 5850:295. See coordinator the previous semester.

\* See department for list of humanities options.

‡ Must complete required courses before taking 5850:295. See coordinator the previous semester.

# 2210: American Sign Language Interpreting and Transliterating Technology

This program is aimed at developing technical knowledge and skills to become a professional interpreter for deaf/hearing-impaired persons in education, business/industry, government, community agencies, or in other settings.

#### **Requirements for Admission**

Credits

Cradita

Persons eligible for admission to the American Sign Language Interpreting and Transliterating Technology degree program must fulfill the following requirements:

Demonstrate a grade of "B" or better in 2210:111; 2210:112; and 2210:114.

	-	
Interview w	vith the faculty.	Credits
2020:121	English	4
2040:242	American Urban Society	3
2210:111	Intro. to Sign, Deafness & Interpreting Services	3
2210:112	American Sign Language I	4
2210:114	American Sign Language Semantics & Structure I	3
2210:122	American Sign Language II	4
2210:124	American Sign Language Semantics & Structure II	3
2210:126	Advanced Fingerspelling & Numbers	2
2210:128	The Profession of Interpreting	3
2210:232	American Sign Language III	4
2210:234	Translating/Interpreting Skills in English and ASL	4
2210:236	Consecutive Interpreting	4
2210:238	American Deaf Culture	3
2210:242	American Sign Language IV	4
2210:244	Simultaneous Interpreting	4
2210:246	The Interpreter in an Educational Setting	3
2210:248	Interpreting Practicum I	2
2210:252	Interpreting Practicum II	3
2210:254	Applied Ethics in Interpreting	4
2420:170	Business Math	3
	or	
2030:130	Introduction to Technical Mathematics	
3750:100	Introduction to Psychology	
	or	
2040:240	Human Relations	3
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3

# 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
2020:122	Elements of Math I	2
		-
2030:152	Elements of Math il	2
2040:240	Human Relations	3
2040:242	American Urban Society	з
2220:100	Introduction to Criminal Justice	з
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 <sup>††</sup>	3
2220:298	Applied Ethics in Criminal Justice	3
2820:105	Basic Chemistry	3
3850:100	Introduction to Sociology	4
5540:xxx	Physical Education **	1
7600:106	Effective Oral Communication	3
2220:xxx	Technical Electives***	6

#### **Options in Criminal Justice**

#### Criminal Justice Advanced Officer Training

202	0:121	English	4
202	0:222	Technical Report Writing	3
203	0:151	Elements of Math I	2
203	0:152	Elements of Math II	2

<sup>\*\*</sup> The following are recommended: 139, Life Saving; 155, Swimming; 173, Self-Defense; or 174, Karate.

\*\*\* Graduates of an Ohio Basic Police Officers Training Academy may receive credit for 22203xxx Technical Electives, six credits.

t1 Changes by subject each semester. Must betaken twice for a total of six credits

		Credits
2040:240	Human Relations	3
2040:242	American Urban Society	3
2220:104	Evidence and Criminal Legal Process	3
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 Technical Topics in Criminal Justice	6
2220:296	Current Topics in Criminal Justice	3
2220:298	Applied Ethics in Criminal Justice	3
2230:250	Hazardous Materiais	4 3
2820:105	Basic Chemistry	3
3850:100 3850:330	Introduction to Sociology Criminology	4
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
		5
Security Admini		4
2020:121 2020:222	English Technical Report Writing	4
2020:222	Elements of Math I	2
2030:152	Elements of Math I	2
2040:240	Human Relations	3
2040:242	American Urban Society	3
2220:101	Introduction to Security	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 <sup>††</sup>	3
2220:298	Applied Ethics in Criminal Justice	3
2230:204	Fire Hazards Recognition	3
2230:250	Hazardous Materials	4
2230:257	Fire Protection for Business and Industry	3
2420:104	Introduction to Business	3
2440:120	Computer and Software Fundamentals	2
2820:105	Basic Chemistry	3
2880:151	Industrial Safety and Environmental Protection	2
5540:xxx	Physical Education **	1
7600:106	Effective Oral Communication Technical Elective***	3 3
2220:xxx		3
Social Work Em		
2020:121	English	4
2020:222	Technical Report Writing	3
2030:151	Elements of Math I Elements of Math II	2 2
2030:152 2040:240	Human Relations	2
2040:240	American Urban Society	3
2220:100	Introduction to Criminal Justice	3
2220:100	Criminal Law for Police	3
2220:104	Evidence and Criminal Legal Process	3
2220:106	Juvenile Justice Process	3
2220:296	Current Topics in Criminal Justice	6
2220:298	Applied Ethics in Criminal Justice	3
2820:105	Basic Chemistry	3
3100:103	Natural Science: Biology/Lab	4
3850:100	Introduction to Sociology	4
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
7750:270	Poverty in the United States	3
7750:276	Introduction to Social Welfare	4 Canadita
	Technical Electives***	Credits 2
	I BUTHTUDE EIBUUYES	2

A student with a particular interest in corrections may vary the program of study by making the following substitutions: 3850:330 Criminology, three credits; 3850:432 Probation and Parole, 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 Dynamics of Vice Crime and Substance Abuse, 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.

1	ng ennergency	31(10) (5.	
	2020:121	English	4
	2020:222	Technical Report Writing	3
	2030:151	Elements of Math I	2
	2030:152	Elements of Math II	2
	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
	2230:153	Principles of Fire Protection and Safety	3
	2230:204	Fire Hazards Recognition	3
	2230:202	Fire Suppression and Emergency Response Methods	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 Protection for Business and Industry	3
	2230:280	Fire Service Administration	4
	2230:290	Special Topics in Fire Protection Technology	2-4
	2230:295	Fire Protection Internship	4
	2230:297	Independent Study: Fire Protection	1-3
	2820:105	Basic Chemistry	3
	7600:105	Introduction to Public Speaking	3
	2230:xxx	Technical Electives	4

#### 2260: Community Services Technology

This program prepares individuals for employment supportive of social work of other professional community service personnel providing social services for individuals, families, groups and communities.

#### **General Program**

	- <u>J</u>	
2020:121	English	4
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:241	Technology and Human Values	2
	or	
2040:244	Death and Dying	2
2040:242	American Urban Society	3
2040:254	The Black American	2
2240:120	Computer and Software Fundamentals	2
2260:100	Introduction to Community Services	3
2260:150	Introduction to Gerontological Services	3
2260:240	Chemical Dependency I	3
2260:260	Alcohol Use and Abuse	3
2260:277	Case Management in Community Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community and Social Services	5
2540:141	WordPerfect, Beginning	2
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
7750:276	Introduction to Social Welfare	4
2260:xxx	Technical electives	8

#### Options

2260:230

Alcohol Serv	ices	
2260:261	Alcoholism Treatment	3
2260:262	Basic Helping Skills in Alcohol Problems	4
2260:263	Group Principles in Alcoholism	4
2260:264	Children of Alcoholics	3
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
Volunteer Pr	ogramming	
2260:280	Fundamentals of Volunteer Management	3
2260:281	Recruitment and Interviewing of Volunteers	3
Technical Elec	ctives (suggested):	
2200:245	Infant/Toddler Day-Care Programs	3
2220:106	Juvenile Justice Process	3

Community-Based Residential Services

		Credits
2260:240	Chemical Dependency I	3
2260:241	Chemical Dependency II	3
2260:290	Special Topics in Community Services Technology	2-4
2540:140	Keyboarding for Non-Majors	3
Social Serv	vices Emphasis †	
2020:121	English	4
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2040:254	The Black American	2
2260:100	Introduction to Community Services	3
2260:150	Introduction to Gerontological Services	3
2260:260	Alcohol Use and Abuse	3
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

# 2290: Legal Assisting Technology

-	•	
2020:121	English	4
2020:222	Technical Report Writing	3
2030:151	Elements of Math I	2
2030:152	Elements of Math II	2
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
2440:120	Computer and Software Fundamentals	2
5540:xxx	Physical Education	1
7600:106	Effective Oral Communication	3
	General Electives	3
	Technical Electives	3
Recommended G	eneral Electives (choose one)	
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
2040:251	Human Behavior at Work	3
Recommended Te	achnical Electives (choose one)	
2220:102	Criminal Law for Police	3
2220:1 <b>06</b>	Juvenile Justice Process	3

<sup>†</sup> For students who wish to pursue a baccalaureate degree in social work in a "2+2" arrangement. Prerequisites include 7750:427 Human Behavior in Social Work Environment (3) and 3100:103 Natural Sciences: Biology/Lab (4).

# Wayne College

John P. Kristofco, Ph.D., Dean

William D. Bailey, M.A., Assistant Dean and Director of Student Services

# **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 eight technical programs and eight certificate programs, as well as the first two years of most 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 and in 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 Interim Associate Dean for Academic Affairs. Interested students must complete a formal Associate of Technical Studies application. Upon application, the Interim Associate Dean for Academic Affairs 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 Interim Associate Dean for Academic Affairs, 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.

Arts Optio	n	Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I <sup>1</sup>	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity Requirement <sup>2</sup>	4
	Humanities Requirement 1	6
	Mathematics Requirement <sup>3</sup>	3
	Natural Sciences Requirement 4	8
	Physical Education/Wellness	1
	Social Sciences Requirement <sup>5</sup>	6
	Electives <sup>6</sup>	22
		64
Science Op	otion	
3300:111	English Composition l	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition (	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity Requirement <sup>2</sup>	4
	Humanities Requirement <sup>1</sup>	6
	Mathematics Requirement <sup>3</sup>	3
	Natural Sciences Requirement <sup>4</sup>	8
	Physical Education/Wellness	1
	Social Sciences Requirement 5	6
	Electives 7	22
		64

- 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.
- <sup>6</sup> 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.
- 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.

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.

#### 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 2+2 and the general options can lead to immediate employment, the 2+2 also provides the first half of a bachelor's degree in social work at The University of Akron School of Social Work. All courses for the associate degree (2+2 option) apply toward the bachelor's degree. The 2+2 is highly recommended for most students.

#### General Option

		Credits
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	Alcohol Use and Abuse	3
2260:273	Career Issues in Social Services III	1
2260:275	Therapeutic Practices	3
2260:285	Social Services Practicum I	1
2260:287	Social Services Practicum II	1
2260:294	Social Services Practicum Seminar	2
3300:111	English Composition I	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
		68
-	n with Bachelor of Arts/Social Work de	•
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	Alcohol Use and Abuse	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		
3300:111	Natural Science-Biology	4
	English Composition	4
3300:112	English Composition I English Composition II	4 3
3700:100	English Composition English Composition II Government and Politics in the U.S.	4 3 4
3700:100 3750:100	English Composition English Composition II Government and Politics in the U.S. Introduction to Psychology	4 3 4 3
3700:100 3750:100 3850:100	English Composition English Composition II Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology	4 3 4 3 4
3700:100 3750:100 3850:100 7600:106	English Composition English Composition II Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication	4 3 4 3
3700:100 3750:100 3850:100 7600:106 7750:270	English Composition English Composition II Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication Poverty in the U.S.	4 3 4 3 4 3
3700:100 3750:100 3850:100 7600:106	English Composition English Composition II Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication Poverty in the U.S. Introduction to Social Welfare	4 3 4 3 4 3 4
3700:100 3750:100 3850:100 7600:106 7750:270	English Composition English Composition I Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication Poverty in the U.S. Introduction to Social Welfare Economics requirement	4 3 4 3 4 3 4 3
3700:100 3750:100 3850:100 7600:106 7750:270	English Composition 1 English Composition II Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication Poverty in the U.S. Introduction to Social Welfare Economics requirement Human Development requirement	4 3 4 3 3 4 3 3 3
3700:100 3750:100 3850:100 7600:106 7750:270	English Composition English Composition I Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication Poverty in the U.S. Introduction to Social Welfare Economics requirement Human Development requirement Natural Science requirement	4 3 4 3 3 4 3 3 4
3700:100 3750:100 3850:100 7600:106 7750:270	English Composition 1 English Composition II Government and Politics in the U.S. Introduction to Psychology Introduction to Sociology Effective Oral Communication Poverty in the U.S. Introduction to Social Welfare Economics requirement Human Development requirement	4 3 4 3 3 4 3 3 3

#### 2420: Business Management Technology

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. The Data Management Option -Software Emphasis prepares graduates to feel at ease in a computer network environment, render technical assistance to peers, as well as maintain daily functional requirements related to network administration. The Data Management Option - Networking Emphasis incorporates Novell, Inc. standard courses and prepares students to qualify for Novell's Certified Novell Engineer (CNE) certifica-

tion. Graduates will be prepared to fill first-level positions in local area network administration and support. The General Option provides training in varied business activities in preparation for a first-level management position in business, industry, government and nonprofit organizations or as a self-employed manager. The Sales and Services Option equips graduates for entry-level sales or service support positions, with special emphases in banking, financial services, general sales, insurance, and real estate.

#### Accounting Option

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68

Accounting	Option	Credits
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	3
2420:171	Business Calculations	3
2420:211	Basic Accounting f	3
2420:212	Basic Accounting II	3
2420:213	Basic Accounting III	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
2440:120	Computer and 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 I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Elective	1
		67
Data Manag	gement Option – Software Emphasis	
2030:161	Mathematics for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2040:260	The Arts and Human Experience	3
2420:101	Essentials of Marketing Technology	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:218	Automated Bookkeeping	2
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:130	BASIC Programming for Business	3
2440:151	PC DOS Fundamentals	1
2440:245	Introduction to Databases for Micros	3
2440:276	Network Management II	4
2540:119	Business English	3
2540:263	Business Communications	3
3300:111	English Composition	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	_1
		69
Data Manag	gement Option – Networking Emphasis	
2030:161	Mathematics for Modern Technology	4

2030:161	Mathematics for Modern Technology	
2040:240	Human Relations	
2040:247	Survey of Basic Economics	
2040:260	The Arts and Human Experience	
2420:101	Essentials of Marketing Technology	
2420:103	Essentials of Management Technology	
2420:104	Introduction to Business	
2420:202	Personnel Practices	
2420:211	Basic Accounting I	
2420:212	Basic Accounting II	
2420:218	Automated Bookkeeping	
2420:243	Survey in Finance	
2420:280	Essentials of Business Law	
2440:120	Computer and Software Fundamentals	
2440:151	PC DOS Fundamentals	
2440:155	Introduction to Windows	
2440:272	Network Technologies	
2440:274	Network Service and Support	
2440:276	Network Management II	
2440:278	Network Design and Implementation	

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2440:xxx	Network Elective	
2540:119	Business English	
2540:263	Business Communications	
3300:111	English Composition I	
7600:106	Effective Oral Communication	
	Physical Education/Wellness	
Network E	ilectives:	
2440:273	Network Printing	
2440:275	TCP/IP Fundamentals	
General Bu	siness Option	
2040:240	Human Relations	
2040:247	Survey of Basic Economics	
2040:251	Human Behavior at Work	
2040:260	The Arts and Human Experience	
2420:101	Essentials of Marketing Technology	
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Credits

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2540:150

2540:151

2540:241

2540:243

Beginning Keyboarding

Internship

Information Management

Intermediate Word Processing

2420:101	Essentials of Marketing Technology
2420:103	Essentials of Management Technology
2420:104	Introduction to Business
2420:171	Business Calculations
2420:202	Personnel Practices
2420:211	Basic Accounting 1
2420:212	Basic Accounting II
2420:218	Automated Bookkeeping
2420:243	Survey in Finance
2420:280	Essentials of Business Law
2440:120	Computer and Software Fundamentals
2540:119	Business English
2540:140	Keyboarding for Nonmajors
2540:263	Business Communications
2880:232	Labor-Management Relations
3300:111	English Composition I
7600:106	Effective Oral Communication
	Physical Education/Wellness

#### Sales and Services Option

Electives

2040:247	Survey of Basic Economics
2040:251	Human Behavior at Work
2040:260	The Arts and Human Experience
2420:101	Essentials of Marketing Technology
2420:103	Essentials of Management Technology
2420:104	Introduction to Business
2420:171	Business Calculations
2420:211	Basic Accounting I
2420:218	Automated Bookkeeping
2420:243	Survey in Finance
2420:280	Essentials of Business Law
2440:120	Computer and Software Fundamentals
2520:210	Consumer Service Fundamentals
2520:212	Principles of Sales
2540:119	Business English
2540:263	Business Communications
3300:111	English Composition I
7600:106	Effective Oral Communication
	Physical Education/Wellness
	Emphasis Courses

#### Bank Teller/Supervisor emphasis

2420:113	Introduction to Banking
2420:202	Personnel Practices
2420:212	Basic Accounting II
2420:233	Installment Credit
2420:253	Elements of Bank Management
2440:125	Spreadsheet Software
	and
2440:151	PC-DOS Fundamentals
	or
2440:245	Introduction to Databases for Micros

#### Financial Services emphasis

2420:125	Personal Financial Counseling
2420:212	Basic Accounting II
2420:217	Survey of Taxation
2420:234	Survey of Investment Products and Services
2440:125	Spreadsheet Software

#### 2520:103 Principles of Advertising 3 2520:106 Visual Promotion 3 2520:202 Retailing Fundamentals 3 or Fundamentals of Industrial Distribution 2520:203 3 Sales Projects 2520:219 2 3250:248 Consumer Economics 3 Elective 1 Insurance Client Services emphasis 2420:206 Survey of Insurance Products and Services I 3 2420:207 Survey of Insurance Products and Services II 3 2440:245 Introduction to Databases for Micros 3 2540:121 Introduction to Office Procedures 3 2540:289 Career Development for Business Professionals 3 **Real Estate emphasis** 2420:202 Personnel Practices 3 2430:105 Real Estate Principles 2 2430:185 Real Estate Law 2 2430:245 Real Estate Finance 2 Valuation of Residential Property 2430:255 2 2440:125 Spreadsheet Software 2 and PC-DOS Fundamentals

Credits

1

3

3

3

3 3

#### 2540: Office Administration

or

Introduction to Databases for Micros

2440:151

2440:245

General Sales emphasis

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 four-year business education or technical education degree.

#### **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
2440:125	Spreadsheet Software	2
2440:155	Introduction to Windows	1
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	Office Software Applications	4
2540:271	Desktop Publishing	3
2540:273	Computer-Based Graphics Presentation	3
2540:281	Machine 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
		66
Legal Adm	inistrative Assistant Option	
2040:240	- Human Belations	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
2440:125	Spreadsheet Software	2
2440:155	Introduction to Windows	1
2540:119	Business English	3
2540:121	Introduction to Office Procedures	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	Machine 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
		64

Credits

#### Health Care Administrative Assistant Option

2040:240	Human Relations	3
2040:260	The Arts and Human Experience	3
2420:171	Business Calculations	3
2440:120	Computer and Software Fundamentals	2
		3
2530:241	Health Information and Management	
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	Internship	2
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 (	2
2540:289	Career Development for Business Professionals	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes for Medical Assisting	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
5550:211	First Aid	2
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	_1
		64

#### 2600: Computer Service and Network Technology

This program prepares the individual for employment in support of computer systems in a networked environment. Graduates will be prepared to configure, install, maintain, upgrade, troubleshoot, and repair various networked computer systems used in manufacturing and service enterprises. Graduates 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, graduates will be prepared to support software areas of computer system operating systems, such as DOS/Windows, and related software including word-processing, spreadsheet, and database management. The Novell NetWare networking courses satisfy Novell's Certified Novell Engineer (CNE) 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, and computer systems specialist.

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
2440:125	Spreadsheet Software	2
2440:131	Introduction to Programming	2
2440:151	PC DOS Fundamentals	1
2440:155	Introduction to Windows	1
2440:245	Introduction to Databases for Micros	3
2440:272	Networking Technologies	2
2440:273	Network Printing	2
2440:274	Network Service and Support	4
2440:276	Network Management II.	4
2540:286	Microsoft Word for Windows	3
2600:100	Basic Electronics for Technicians	5
2600:125	Digital Electronics for Technicians	4
2600:155	Microprocessor Assembly Language Programming	2
2600:160	Personal Computer Repair	4
2600:180	Microprocessor Service Practicum	2
2600:185	Microprocessor Service Practicum Seminar	1
2600:190	Microprocessor Systems Architecture	3
3300:111	English Composition I	4
7600:106	Effective Oral Communications	3
	Physical Education/Wellness	1
	Approved Basic or Technical Elective	_3
		67

#### 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 technician 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.

		Creans
2020:222	Technical Report Writing	3
2030:152	Elements of Math II	2
2040:251	Human Behavior at Work	3
2230:250	Hazardous Materials	4
2230:257	Fire Protection for Business and Industry	3
2420:104	Introduction to Business	3
2440:120	Computer and Software Fundamentais	2
2540:241	Information Management	3
2800:200	Physics for Environmental Technicians	3
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
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
7600:106	Effective Oral Communications	_3
		69

# **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 Social Services Technology degree, or the Associate of Applied Science in 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 I	4
7750:276	Introduction to Social Welfare	_4
		33

#### Information Processing Specialist Certificate

The use of networked microcomputers in business is pervasive. 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. Course work can also be applied toward the Associate of Applied Business in Business Management Technology degree or to the Associate of Technical Studies. A student does not have to be pursuing a degree in order to receive the certificate.

		Credits
2040:240	Human Relations	3
2420:104	Introduction to Business	3
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2440:130	BASIC Programming for Business	3
2440:245	Introduction to Databases for Micros	3
2440:255	Introduction to Network Administration	3
2440:267	4GL for Micros	3
2540:119	Business English	3
2540:263	Business Communications	_3
		36

## **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.

2420:211	Basic Accounting I	3
2440:120	Computer and 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 for Medical Assisting	_3
		32

## **Medical Transcription Certificate**

There is substantial demand for high-quality medical transcriptionists. This certificate will prepare individuals for entry-level positions in physicians' offices, hospitals, clinics, medical centers, government facilities, transcription services and home offices.

2530:241	Health Information 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 Keyboarding/Word Processing	3
2540:263	Business Communications	3
2540:282	Medical Machine Transcription	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes for Medical Assisting	3
2740:230	Basic Pharmacology	_3
		33

#### **Network Management Specialist Certificate**

The use of networked microcomputers in business is pervasive. 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.

This certificate program will provide collegiate credit for those in supervisory, managerial, and support positions related to local area network administration. Course work can also be applied toward the Associate of Applied Business in Business Management Technology degree or to the Associate in Applied Technical Studies degree. A student does not have to be pursuing a degree in order to receive the certificate.

		Credits
2040:240	Human Relations	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business	3
2440:120	Computer and Software Fundamentals	2
2440:155	Introduction to Windows <sup>TM</sup>	1
2440:272	Network Technologies	2
2440:274	Network Service and Support	4
2440:276	Network Management II	4
2440:278	Network Directory Design and Implementation	2
2540:119	Business English	3
2540:263	Business Communications	3
	Network Elective	_2
		32

#### **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.

2440:125	Spreadsheet Software		2	
2440:155	Introduction to Windows <sup>TM</sup>		1	
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	1
		í	33	j

## **Personal Computer Repair Certificate**

This certificate is designed to prepare individuals to maintain and repair personal computers in enterprises where they are sold or where they are used in day-today operations.

ay operations		
2030:151	Elements of Math I	2
2030:152	Elements of Math II	2
2440:151	PC-DOS Fundamentals	1
2520:210	Consumer Service Fundamentals	2
2600:100	Basic Electronics for Technicians	5
2600:155	Microprocessor Assembly Language Programming	2
2600:160	Personal Computer Repair	4
2600:180	Microprocessor Service Practicum	2
2600:185	Microprocessor Service Practicum Seminar	1
2600:190	Microprocessor Systems Architecture	3
3300:111	English Composition	4
7600:1'06	Effective Oral Communication	_3
		21

## **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 I	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

## 3120: Medical Technology\*

First Year		
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 I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:149	Precalculus Mathematics	_4
		32
Second Year		
3100:208	Human Anatomy and Physiology	4
3100:209	Human Anatomy and Physiology	4
3100:211	General Genetics	3
3100:212	General Genetics Laboratory (optional)	1
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
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Social Science Requirement	_6
		32

#### 3150: Chemistry

First Year		Credits
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 !	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory !!	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: Economics

0_000		
First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:215	Concepts of Calculus I	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Natural Science Requirement	8
	Physical Education/Wellness	_1
Second Year		35
3400:210	Humanities in the Western Tradition I	4
3250:200	Principles of Microeconomics	4 3
3250:200	Principles of Macroeconomics	3
5250.201	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	4
	Intermediate Foreign Language	6
	Social Science Requirement	3
	Electives	_3
	Elocitos	<u>بر</u> 32
		02
3250.01	Labor Economics*	
First Year		
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:215	Concepts of Calculus I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Electives	_7
<b>A</b>		32
Second Year		
3400:210	Humanities in the Western Tradition	4
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science Requirement	8
	Social Science Requirement	3
	Electives	_7
		32

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.

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.

# 3300: English\*

First Vaar

First Year		Credits
3300:111	English Composition	4
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics Requirement	3
	Physical Education/Wellness	1
	Social Science Requirement	6
	Electives	_4
		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

## 3350: Geography and Planning\*

First rear		
3300:111	English Composition I	4
3300:112	English Composition II	3
3350:100	Introduction to Geography	3
	Mathematics Requirement	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Physical Education/Wellness	1
	Social Science Requirement	3
	Electives	_4
		32
Second Year	r	
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

## 3370: Geology (and Geophysics)\*\*

English Composition I	4
English Composition II	3
Principles of Chemistry I	3
Principles of Chemistry I Laboratory	1
Principles of Chemistry II (optional for B.A.)	3
Qualitative Analysis (optional for B.A. and B.S.)	2
Introduction to Physical Geology	4
Precalculus Mathematics	4
Analytic Geometry-Calculus I (for B.S.)	4
Physical Education/Wellness	1
Social Science Requirement	6
Electives (for B.A.)	<u>4-9</u>
	35
Principles of Biology I (for B.A.)	4
or	
Analytic Geometry-Calculus II (for B.S.)	4
Introduction to Historical Geology	4
Humanities in the Western Tradition I **	4
Effective Oral Communication	3
Areas Studies/Cultural Diversity Requirement	4
Humanities Requirement**	6
Beginning Foreign Language	_8
	33
	English Composition II Principles of Chemistry I Principles of Chemistry I Laboratory Principles of Chemistry I Laboratory Principles of Chemistry II (optional for B.A.) Qualitative Analysis (optional for B.A. and B.S.) Introduction to Physical Geology Precalculus Mathematics Analytic Geometry-Calculus I (for B.S.) Physical Education/Wellness Social Science Requirement Electives (for B.A.) Principles of Biology I (for B.A.) or Analytic Geometry-Calculus II (for B.S.) Introduction to Historical Geology Humanities in the Western Tradition I •• Effective Oral Communication Areas Studies/Cultural Diversity Requirement Humanities Requirement**

## 3400: History

First Year	
3300:111	English Composition I
3300:112	English Composition II
3400:250	U.S. History to 1877
3400:251	U.S. History since 1877
7600:106	Effective Oral Communication

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.

	erea to
Beginning Foreign Language	8
Mathematics Requirement	3
Physical Education/Wellness	1
Social Science Requirement	3
	33
Humanities in the Western Tradition I	4
Europe: From Revolution to World War, 1789-1914	3
Europe: From World War I to the Present	3
Areas Studies/Cultural Diversity Requirement	4
Humanities Requirement	6
Intermediate Foreign Language	6
Natural Science Requirement	8
	34
	Physical Education/Wellness Social Science Requirement Humanities in the Western Tradition I Europe: From Revolution to World War, 1789-1914 Europe: From World War I to the Present Areas Studies/Cultural Diversity Requirement Humanities Requirement Intermediate Foreign Language

Credits

4

32

# 3450: Mathematics (and Applied Mathematics)\*

(see 3470: Statistics below)

#### 3470: Statistics

#### First Year 3300:111 English Composition I

3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus 1	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	8
		33-35

#### 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.

#### 3460: Computer Science\*

#### Options Business

4 3 4

4 3

First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:215	Concepts of Calculus I	4
3460:209	Introduction to Computer Science	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Natural Science Requirement	4
	Social Science Requirement	<u>_3</u> 33
Second Year		
3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:216	Concepts of Calculus II	4
6200:201	Accounting Concepts and Principles for Business	3
6200:202	Managerial Accounting	3
	Area Studies/Cultural Diversity Requirement	4
	Intermediate Foreign Language	6
	Natural Science Requirement	4
	Physical Education/Wellness	_1
		32
Mathematics	5	
First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3460:209	Introduction to Computer Science	4
	Beginning Foreign Language	8
	Physical Education/Wellness	1
	Natural Science requirement	8

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.

Geophysics majors must take 3650:291 and 292, Elementary Classical Physics I and II during the second year instead of the humanities credits.

#### 4200: Chemical Engineering\*

Credits

	Credits	4200: Ch	emical Engineering*	
Humanities in the Western Tradition I	4	First year		Credits
Analytic Geometry-Calculus II	4	First year	Principles of Chemistry I	3
Analytic Geometry-Calculus III	4	3150:151	Principles of Chemistry I Principles of Chemistry I Laboratory	1
Effective Oral Communication	3	3150:152		3
Humanities Requirement	6	3150:153	Principles of Chemistry II	2
Intermediate Foreign Language	6	3150:154	Qualitative Analysis	2
Social Studies requirement	_6	3300:111	English Composition 1	
	33	3300:112	English Composition II	3
		3450:221	Analytic Geometry-Calculus I	4
itical Science*		3450:222	Analytic Geometry-Calculus II	4
		4100:101	Tools for Engineering	3
		4200:121	Chemical Engineering Computations	2
English Composition I	4	7600:106	Effective Oral Communication	3
English Composition II	3		Physical Education/Wellness	<u> </u>
Government and Politics in the U.S.	4			33
Effective Oral Communication	3	Second year		
Beginning Foreign Language	8	3150:263	Organic Chemistry Lecture	3
Mathematics Requirement	3	3150:264	Organic Chemistry Lecture II	3
Physical Education/Wellness	1	3150:265	Organic Chemistry Laboratory I	2
Social Science Requirement	3	3150:266	Organic Chemistry Laboratory II	2
Electives	_3	3250:244	Introduction to Economic Analysis	3
	32	3400:210	Humanities in the Western Tradition I	4
	-	3450:223	Analytic Geometry-Calculus III	4
Humanities in the Western Tradition I	4	3450:235	Differential Equations	3
Areas Studies/Cultural Diversity Requirement	4	3650:291	Elementary Classical Physics	4
Humanities Requirement	4 6	3650:292	Elementary Classical Physics II	_4
	6		,,, _,, _	32
Intermediate Foreign Language	8			
Natural Science Requirement		4300: Civ	/il Engineering*	
Electives	_4			
	32	First Year		
		3150:151	Principles of Chemistry 1	3
chology*		3150:152	Principles of Chemistry I Laboratory	1
		3150:153	Principles of Chemistry II	3
		3300:111	English Composition	4
English Composition I	4	3300:112	English Composition II	3
English Composition II	3	3450:221	Analytic Geometry-Calculus I	4
Introduction to Psychology	3	3450:222	Analytic Geometry-Calculus !!	4
Professional and Career Issues in Psychology	1	4100:101	Tools for Engineering	3
Introduction to Sociology	4	7600:106	Effective Oral Communication	3
Effective Oral Communication	3		Physical Education/Wellness	1
Beginning Foreign Language	8		Social Science Requirement	_3
Mathematics Requirement	3		Sooill Solence Hogarchieft	32
Physical Education/Wellness	1	Second Year		52
Electives	_2	3250:244	Introduction to Economic Analysis	3
	32	3400:210	Humanities in the Western Tradition I	4
		3450:223	Analytic Geometry-Calculus III	4
Humanities in the Western Tradition I	4	3450:225	Differential Equations	3
Areas Studies/Cultural Diversity Requirement	4	3650:291	Elementary Classical Physics I	4
Humanities Requirement	6	3650:292		
	6		Elementary Classical Physics II	4
Intermediate Foreign Language		4300:201	Statics	3
Natural Science Requirement	8	4600:203	Dynamics	3
Electives	4		Humanities Requirement	_6
	32			34
• • • •		4400 Ele	ectrical Engineering	
;iology*		4400. LIC	certear Engineering	
		First year		
English Composition I	4	3150:151	Principles of Chemistry I	. 3
English Composition I	3	3150:152	Principles of Chemistry I Laboratory	1
÷ .		3150:153	Principles of Chemistry II	3
Introduction to Sociology	4	3300:111	English Composition I	4
Social Problems	3	3300:112	English Composition II	3
Effective Oral Communication	3	3450:221	Analytic Geometry-Calculus	4
Beginning Foreign Language	8	3450:222	Analytic Geometry-Calculus II	4
Mathematics Requirement	3	4100:101	Tools for Engineering	3
Physical Education/Wellness	1	7600:106	Effective Oral Communication	3
Social Science Requirement	_3		Physical Education/Wellness	1
	32		Social Science Requirement	_3
			Social Science negatement	32
Humanities in the Western Tradition !	4	Second year		32
Cultural Anthropology	4	3250:244	Introduction to Economic Analysis	3
Areas Studies/Cultural Diversity Requirement	4	3450:223	Analytic Geometry-Calculus III	4
Humanities Requirement	6	3450:225	Differential Equations	3
Intermediate Foreign Language	6	3650:291	Elementary Classical Physics I	4
Natural Science Requirement	_8	3650:291		4
	32		Elementary Classical Physics II Station	3
		4300:201	Statics	- 3
		4400:231	Circuits I	3
		4400:232	Circuits II	3
		4400:243	Signal Analysis	
		4400:340	Electric Circuits Laboratory	1
		4450:208	Programming for Engineers	_ <u>3</u> 34
				34

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.

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.

Mathematics Requirement Physical Education/Wellne Electives

3750: Psychology\*

Second Year

3400:210 3450:222

3450:223

7600:106

First Year 3300:111

3300:112

3700:100

7600:106

Second Year 3400:210

First Year 3300:111

3300:112

3750:100

3750:105

3850:100

7600:106

3700: Political Science\*

		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

## 3850: Sociology\*

\_ . . .

First Year		
3300:111	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		
3400:210	Humanities in the Western Tradition I	4
3870:150	Cultural Anthropology	4
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	Natural Science Requirement	_8
		32

## 4600: Mechanical Engineering

First year		Credits
3150:151	Principles of Chemistry I	. 3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus !	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Physical Education/Weilness	1
	Social Science Requirement	_3
		32
Second year		
3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:235	Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4300:202	Introduction to Mechanics of Solids	3
4600:203	Dynamics	3
	Humanities Requirement	_6
		37

## 5200: Elementary Education\*

First Year			0000.222	0.co
3100:103	Natural Science-Biology	4		Are Hur
3300:111	English Composition I	4		Hu
3300:112	English Composition II	3		
3350:100	Introduction to Geography	3	7100. 4.4	-
3400:250	United States History to 1877	4	7100: Art	["
	or		First Year	
3400:251	United States History since 1877	4	3300:111	Eng
	Of		3300:112	Eng
3700:100	Government and Politics in the U.S.	4	7100:131	intr
5570:101	Personal Health	2	7100:144	Tw
7600:106	Effective Oral Communication	3	7100:xxx	Stu
	Natural Science Requirement	4	7600:106	Effe
	Physical Education/Wellness	1		Phy
	Mathematics Requirement	_3		Soc
		31		Ele
Second Year				
3400:210	Humanities in the Western Tradition I	4	Second Year	
5050:210	Characteristics of Learners	3	3400:210	Hu
5050:211	Teaching and Learning Strategies	3	7100:xxx	Stu
5200:215	The Child, the Family and the School	3		Are
5200:220	Visual Arts Culture	1		Hu
5200:245	Understanding Language Literacy	3		Ma
5200:250	Developing the Processes of Investigation	3		Na
5550:334	Games & Rhythms: Elementary Grades	3		Ele
	Areas Studies/Cultural Diversity Requirement	4		
	Humanities Requirement	6		
	Concentration Area Course	_3	7400: Ho	me
		36	7400, 110	

## 5300: Secondary Education\*

First Year		
3300:111	English Composition I	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
050:210	Characteristics of Learners	3
5050:211	Teaching and Learning Strategies	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Teaching Field(s) Courses	
	Or	
	Electives	<u>12</u>
		32

Certain courses not currently available at Wayne Collegra may also need to be completed in the first two years of selected University programs to ascure proper course sequencing and timely completion of degree requirements.

#### 6000: Business Administration

## Options

#### Accounting, Finance, Management, Marketing,

Advertising, International Business

First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:215	Concepts of Calculus I	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Natural Science Requirement	8
	Physical Education/Wellness	1
		30-31
Second Year		
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
3400:210	Humanities in the Western Tradition	4
6200:201	Accounting Concepts and Principles for Business	3
6200:202	Managerial Accounting	3
6200:250	Computer Applications for Business (except Accounting majors) or	3
6200:255	Information Processing (Accounting majors only)	3
6400:220	Legal and Social Environment of Business (except Accounting majors	
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

1 11 31 1 601		
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 1	4
7100:xxx	Studio Art Courses	6
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Mathematics Requirement	3
	Natural Science Requirement	8
	Electives	1

32

# 7400: Home Economics and Family Ecology\* Options

#### Clothing, Textiles and Interiors - Business

First Year		
2450:101	Essentials of Marketing Technology	3
3300:111	English Composition I	4
3300:112	English Composition 11	3
3850:100	Introduction to Sociology	4
7600:106	Effective Qral Communication	3
	Economics Requirement	3
	Foreign Language Courses or	
	Language Alternative Courses	8
	Physical Education/Wellness	1
	Mathematics Requirement	_ <u>3</u> 32
Second Year		
3400:210	Humanities in the Western Tradition I	4
7400:201	Courtship, Marriage, and Family Relations	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science Requirement	8
	Electives	7
		32

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.

Credits

Dietetics*		0
First year		Credits
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
		3
7400:201	Courtship, Marriage, and Family Relations or	5
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Economics Requirement	3
	Physical Education/Wellness	1
	Thysical Education y Voliness	32
Second Year		01
3100:130	Principles of Microbiology	3
3100:208	Human Anatomy and Physiology	4
3100:209	Human Anatomy and Physiology	4
		4
3400:210	Humanities in the Western Tradition I	
3750:100	Introduction to Psychology	3
6200:201	Accounting Concepts and Principles for Business	3
2420:211	or Basic Accounting !	3
LILOILIII	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
		_1
	Elective	
		32
Family Life and	d Child Development	
First Year		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology (Family Life Option only)	3
3750:230	Developmental Psychology (Family Life Option only)	4
3850:100	Introduction to Sociology	4
	Effective Oral Communication	3
7600:106		
	Mathematics Requirement	3
	Economics Requirement	3
	Physical Education/Wellness	1
	Electives	4
		32
Second Year		
3400:210	Humanities in the Western Tradition I	4
7400:201	Courtship, Marriage, and Family Relations	3
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	8
	Natural Science Requirement	
		32
Food Science		
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
	English Composition I	4
3300:111 3300:112	English Composition II	4
	Basic Statistics	
3470:260		3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	or Language Alternative Courses	8
	Economics Requirement	3
	Physical Education/Wellness	_1
	Friysical Education (WVeniness	
Second Year		33
2440:120	Computer and Software Fundamentals	2
3100:130		3
	Principles of Microbiology	
3400:210	Humanities in the Western Tradition I	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7400:201	Courtship, Marriage, and Family Relations	3
	Of	
7400:265	Child Development	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	6
	Intermediate Foreign Language	6
	or	
	Language Alternative Courses	_6
		35

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# 7600: Communication

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 3
	Mathematics Requirement	1
	Physical Education/Wellness Social Science Requirement	6
	Elective (typing/word processing recommended)	5
	Elective (typing/word processing recommended)	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
		36
7750. 0-	al al Marala	
//50: 50	cial Work	
First Year		
3300:111	English Composition F	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
Second Year		32
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: Nu	ırsina	
First Year		
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
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
3870:150	Or Cultural Anthropology	4
3870:150 8200:100	Cultural Anthropology Introduction to Nursing	4
0200.100	Economics Requirement	3
	Physical Education/Wellness	_1
		33
Church i	Solida to and the College of Market States of A	
	eligible to apply to the College of Nursing during spring semester of the	
	npleted all of the courses listed above and attained a grade point averages student is accepted into the college, attendance at the Akron campus, it	

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.

#### Second Year

3100:208	Human Anatomy and Physiology	4
3100:209	Human Anatomy and Physiology	4
3400:210	Humanities in the Western Tradition I	4
3470:260	Basic Statistics	3
3750:230	Developmental Psychology	4
7600:106	Effective Oral Communication	3
	Areas Studies/Cultural Diversity Requirement	4
	Humanities Requirement	3
	Electives	3
		32

# University College

Karla Mugler, Ph.D., Dean

Virgil Starks, III, M.A., Associate Dean and Director of Minority Affairs Anne Goodsell Love, Ph.D., Retention Coordinator

Joseph Migden, Ph.D., Interim Director, Academic Advisement Center Karim Joseph Mourad, Ph.D., Director of Developmental Programs

# 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 aims:

- 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 semester-length 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

(effective for students admitted Fall 1994 and thereafter)

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 entering the University in the fall of 1994 or thereafter 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

2020:121 English*		Credits 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*	6
(Must complete all 3 courses. Only 3 credits apply toward fulfilling General Education require	ement)

	,		
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	
3450:145	College Algebra	4	
3450:289A/B	Mathematics for Business I/II	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:

#### Biology

Biology		
2780:106	Anatomy and Physiology for Allied Health 1*	3
2780:107	Anatomy and Physiology for Allied Health II*	3
3100:100	Introduction to Botany/Lab (Wayne College only)	4
3100:101	Introduction to Zoology/Lab (Wayne College only)	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
3370:103	Natural Science Geology	3
3370:121-138	Concepts in Geology	1
3370:200	Environmental Geology	3
3370:201	Exercises in Environmental Geology I/Lab	1
3370:203	Exercises in Environmental Geology II/Lab	1
Physics		
2820:161	Technical Physics: Mechanics 1*	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/Lab	4
3650:133	Music, Sound and Physics/Lab	4
3650:137	Light/Lab	4
		Continued next page

Will apply toward the General Education requirement only for students enrolled in the Community and Technical College

## **Oral Communication: 3 credits**

		Credits
7600:105	Introduction to Public Speaking	3
7600:106	or Effective Oral Communication	3
Social Sc	iences: 6 credits	
(One course fro	om two different sets for a minimum of 6 credits)	
Set 1 - Econo	omics	
2040:247	Survey of Basic Economics*	3
3250:100	Introduction to Economics Principles of Microeconomics	3 3
3250:200 3250:244	Introduction to Economic Analysis	3
Set 2 - Geogi		ů.
3350:100	Introduction to Geography	3
Set 3 - Gover	mment/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 - Psych		
2040:240 3750:100	Human Relations*	3 3
	Introduction to Psychology	3
Set 5 - Socio 3850:100	logy/Anthropology Introduction to Sociology	4
3870:150	Cultural Anthropology	4
Set 6 - Unite	d States History	
3400:250	U.S. History to 1877	4
3400:251	U.S. History since 1877	4
Set 7 - Scien	ce/Technology/Society	
2040:241	Technology of Human Values	2
3600:125	Theory and Evidence	3
Humanit	ies: 10 credits – 3 courses	
All students are 3400:210	e required to complete: Humanities in the Western Tradition I	4
	select one course from two different sets below for a minim	um of six
additional cred		
Set 1 - Fine A	Arts	
7100:210	Visual Arts Awareness	3
7500:201	Exploring Music: Bach to Rock	3
7800:301	Introduction to Theatre and Film	3
7900:200	Viewing Dance	3
	sophy/Classics	
3200:220	Introduction to the Ancient World	3 3
3200:230 3200:289	Sports and Society in Ancient Greece and Rome 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	ture	
3300:250	Classic and Contemporary Literature	3
3300:251	Topics in World Literature	3
3300:252 3300:281	Shakespeare and His World Fiction Appreciation	3

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 literatu	re in English translation:	
3200:361	Literature of Greece	- 3
3520:350	Themes in French Literature in Translation	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
2040:240	The Black American	2
3001:300	Introduction to Women's Studies	3
3005:300	Canadian Studies: An Interdisciplinary Approach	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

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

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
7900:119/120	Modern Dance I/II: Introduction to Modern Dance I/II	2
7900:124/125	Ballet I/II: Introduction to Ballet I/II	2
7900:130/230	Jazz Dance I/II: Introduction to Jazz Dance I/II	2
7900:144	Tap Technique: Introduction to Tap Technique	2

# 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 respecting cultural differences
- · 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
- · 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
- · 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 and work in the Writing, Reading and Math labs; study strategies courses; and critical reasoning 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 are offered in writing, reading, college reading and study skills, mathematics, and chemistry. (See 1020:042 through 071 in Section 8 of this Bulletin.) 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., Principles of Biology, and others. Critical Reading and Reasoning is offered for students who feel they possess adequate study strategies but wish to focus on critical thinking skills. (See 1020:064 and 066 in Section 8 of this Bulletin.) Classes are small to provide maximum opportunity for individual help.

The writing, reading, and math laboratories are open to all students without charge and provide professional assistance in these vital skills:

- The Mathematics Lab, 208 Carroll Hall, provides professional instruction for students who are having difficulty in any entry-level algebra course.
- The Writing Lab, 212 Carroll Hall, offers professional instruction to students taking any course requiring writing.
- The Reading Lab, 217 Carroll Hall, provides professional instruction in a variety
  of reading and study strategies, memory techniques, and test-taking methods
  as they apply to specific courses.

# **Tutorial Program**

Tutorial services are available free of charge to help students develop academically. These services are provided for most freshman- and sophomorelevel courses.

- 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 training program for tutors is provided every semester.

All of these services are located on the second floor of Carroll Hall. Main Office, 210 Carroll Hall, (330) 972-7087.

# UNIVERSITY ORIENTATION 101

The first semester at a university can be a challenging, and at times overwhelming, experience. University College offers a course which can help turn 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 972-7066.

# SUMMA ST. THOMAS SCHOOL OF NURSING DIPLOMA NURSING PROGRAM

The University, in cooperation with the hospital school of nursing at SUMMA St. Thomas School of Nursing in Akron, provides courses basic to a diploma in nursing.

Nursing students must meet the University entrance requirements and are enrolled in regular credit courses.

Applications for this program are handled through SUMMA St. Thomas School of Nursing which awards the diploma.

The following University courses are included in the two-year program:

		Credits
3100:130	Microbiology	3
3100:208	Anatomy and Physiology	4
3100:209	Anatomy and Physiology	4
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3850:100	Introduction to Sociology	4
7400:316	Science of Nutrition	4

# 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 Course (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 six weeks. Uniforms, lodging, meals, and travel pay are provided without charge. All students attending field training receive pay at about half the rate as that of a second lieutenant.

# **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 26.

If not on scholarship status and not qualified for flying training, be able to complete all commissioning requirements prior to age 30.

#### 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 for-week field training course
- For the two-year program applicant, complete the six-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 eight 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 \$150 tax free stipend each month.

All scholarships are awarded in specific degree majors, with engineering and technical majors receiving the vast 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 and board 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**

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, to include a two-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 two-hour leadership laboratory and physical training three times per week for three semester credits. The course of study includes: advanced leadership, application of tactics, ethics and professionalism, methods of instruction, resource management, and the responsibilities of an officer. The advanced course includes a six-week paid summer camp attended usually between the junior and senior year. A student in the advanced course is paid \$150 per month, or approximately \$1,350 per school year. Upon commissioning, the student will serve either with the Reserves, the National Guard, or on active duty.

# **Two-Year Program**

A student can also enter the advanced course by attending a basic six-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 \$150 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 3.0 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 \$150 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 \$25,000 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 \$150 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

Robert M. Holland, Ph.D., 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 a member 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 1300) 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 Civilizations
3210: Greek	3400: Humanities in the	3600: Philosophy
3220: Latin	Western Tradition	

#### 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:

3250: Economics	3700: Political Science	3860: Sociology			
3350: Geography	3750: Psychology	3870: Anthropology			
where it / (The Network Coloness and Mathematics)					

#### 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:

3100: Biology 3150: Chemistry 3370: Geology	3450: Mathematics 3460: Computer Science	3470: Statistics 3650: Physics	
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# **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 fourh 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 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.

# **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 full tuition and fees, room and board, for the full four years.

#### 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 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 Senior Honors Project, and the definition of policies and procedures appropriate to the mission of the University Honors Program.

# Buchtel College of Arts and Sciences

Roger B. Creel, Ph.D., *Dean* David C. Buchthal, Ph.D., *Associate Dean* William A. Francis, Ph.D., *Associate Dean* 

# **OBJECTIVES**

The 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 the 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 composed 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.

# **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, Bachelor of Science in Cytotechnology, Bachelor of Science in Medical Technology.

Social Sciences Division: Bachelor of Arts, Bachelor of Science in Geography/Cartography, Bachelor of Arts in Geography/Travel and Tourism, Bachelor of Science in Labor Economics, Bachelor of Science in Political Science/Criminal Justice, Bachelor of Science in Political Science/Public Policy Management.

## **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 Mathematical Sciences; 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 Department of Mathematical Sciences.
- 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 the 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 the 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 INSTRUCTION

# 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.

3100:111,2	Principles of Biology I, II	8
3100:211,2	General Genetics	4
3100:217	General Ecology	3
3100:316	Evolutionary Biology	3
3100:311	Cell Biology	3
3150:151,3,2	Principles of Chemistry I, II, and Laboratory	7
3150:154	Qualitative Analysis	2
3150:201,2	Organic Chemistry and Biochemistry 1 and II	8
	or	
3150:263,4,5,6	Organic Chemistry	10
3450:145	College Algebra	4
3450:149	Precalculus Mathematics	4

· A distribution requirement of one course in anatomy-physiology and two courses in organismal biology which have been approved by the department must be completed.

- A minimum of 36 credits in biology is necessary to qualify for a Bachelor of Science degree. 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: 3460:125 2 Descriptive Computer Science 3470:261.2 Introductory Statistics I.I.
- A student majoring in biology or medical technology 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:

Most of these	e courses will be taken during the third or fourth	years:
Botany		Credits
Required:		
3100:342	Flora and Taxonomy	3
3100:440	Mycology	4
3100:443	or Phycology	4
3100:441	Plant Development	4
	or	
3100:445	Plant Morphology	4
3100:442	Plant Anatomy	3
Electives:		
3100:440	Food Piants	2
3100:447	Plant Physiology	3
3100:448	Economic Botany	2
Ecology		
Required: 3100:464	General and Comparative Physiology	4
	of the following:	4
3100:421	Tropical Field Biology	4
3100:424	Freshwater Ecology	3
3100:426	Applied Aquatic Ecology	3
At least one o	of the following:	
3100:342	Flora and Taxonomy	3
3100:440	Mycology	4
3100:443	Phycology Plant Marshalam	4
3100:445	Plant Morphology of the following:	4
3100:428	Biology of Behavior	2
3100:451	General Entomology	4
3100:453	Invertebrate Zoology	4
3100:456	Ornithology	4
3100:458	Vertebrate Zoology	4
Microbiology	1	
Required:		
3100:331	Microbiology	4
3100:433	Pathogenic Bacteriology or	4
3100:435	Virology	4
3100:437	Immunology	4
Electives: 3100:440	Muselegy	4
3100.440	Mycology or	4
3100:443	Phycology	4
3100:454	Parasitology	4
3100:481	Advanced Genetics	3
3150:401,2	Biochemistry	6
Animal Phys	iology	
Required:		
3100:461,2 3100:464	Human Physiology	8
3100:465	General and Comparative Physiology Advanced Cardiovascular Physiology	4
3100.400	Or	5
3100:469	Respiratory Physiology or	3
3100:468	Reproductive Physiology	3
Electives:		
3100:365	Histology I	3
3100:401,2	Biochemistry	6
3100:466	Vertebrate Embryology	4
3100:467 3100:484	Comparative Vertebrate Morphology Pharmacology	4
_	Fhaimacology	5
Zoology		
Required: 3100:428	Biology of Behavior	2
3100:453	Invertebrate Zoology	4
	or	
3100:458	Vertebrate Zoology	4
3100:464	General and Comparative Physiology	4
3100:466	Vertebrate Embryology	4
2100 407	or Comparing Vertebrate Manabalan	
3100:467 Electives:	Comparative Vertebrate Morphology	4
Electives: 3100:365	Histology	3
3100:421	Tropical Field Biology	4

4
4
4

# **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 following courses should be taken:

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 courses	s that may be taken:	
3100:426	Applied Aquatic Ecology	3
3100:428	Biology of Behavior	2
3100:440	Mycology	4
	or	
3100:443	Phycology	4
3100:464	General and Comparative 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 course:	s that may be taken:	
3100:365	Histology I	3
3100:465	Advanced Cardiovascular Physiology	3
3100:468	Reproductive Physiology	3
3100:469	Respiratory Physiology	3
3150:401,2	Biochemistry	6

# **Bachelor of Science in Medical Technology**

- · A foreign language is not required.
- The following credits are required:

0	•	
3100:111,2	Principles of Biology I, II	8
3100:208,9	Human Anatomy and Physiology	8
3100:211	General Genetics	3
3100:331	Microbiology	4
3100:433	Pathogenic Bacteriology	4
3100:437	Immunology	4
3100:454	Parasitology	4
3100:495	ST:Medical Technology	1
3150:151,3,2	Principles of Chemistry I, II and Laboratory	7
3150:154	Qualitative Analysis	2
3150:263,4	Organic Chemistry I, II	6
3150:265	Organic Chemistry Laboratory	2
3450:145	College Algebra	4
3450:149	Precalculus Mathematics	4
3460:125	Descriptive Computer Science	2

The first three years of instruction are given in the University. The senior year consists of a minimum of 32 credits of course work in the 3120 series. These courses will be available only to the student selected for the clinical experience portion of the B.S.M.T. program in a CAHEA-approved hospital school; normal tuition will be charged. The University is affiliated with the following hospital schools: Cleveland Clinic Foundation, Cooperative Medical Technology Program of Akron, Ohio Valley Hospital (Steubenville), University Hospitals of Cleveland and Southwest General Hospital (Middleburg Heights). The student must apply to a hospital school for separate admission. The University cannot guarantee placement. A student may train at other approved schools after

obtaining special permission from the head of the Department of Biology.

• The University grants the B.S. in Medical Technology after receipt of evidence of satisfactory completion of the hospital instructional program.

# **Bachelor of Science in Cytotechnology**

A foreign language is not required.

Cradita

• The following credits are required:

			Credits
3100	:111,2	Principles of Biology I, II	8
3100	:208,9	Human Anatomy and Physiology	8
3100	:211	General Genetics	3
3100	:311	Cell Biology	3
3100	:331	Microbiology	4
3100	:365,6	Histology I, II	6
3100	:433	Pathogenic Bacteriology	2
3100	:437	Immunology	4
3150	:151,3,2	Principles of Chemistry I, II and Laboratory	7
3150	:154	Qualitative Analysis	2
3150	:263	Organic Chemistry I	3
3150	:265	Organic Chemistry Laboratory	2
3450	:145	College Algebra	4
3450	:149	Precalculus Mathematics	4

- The first three years of instruction are given at the University. The senior year consists of a maximum of 32 credits in the 3130 series. These courses are available only to the student selected for the clinical experience portion of the B.S.C.T. program in a CAHEA-approved school. Normal tuition will be charged. The student must apply for a separate admission to an approved school. The University will assist in the process but cannot guarantee admission.
- The University will grant the B.S. in Cytotechnology after receipt of satisfactory completion of the hospital instructional program.

# **Bachelor of Arts**

- The General Education requirement and the second year of a foreign language.
- At least 17 credits in the humanities or social sciences, including at least two
  of the following:

	of the following.		
	3400:486	Western Science to 1800	3
	3400:487	Western Science since 1800	3
	3400:488	Western Technology	3
	3600:464	Philosophy of Science	3
•	At least 24 cre	edits in the biological sciences which must include:	
	3100:11	Principles of Biology I, II	8
	3100:211	General Genetics	3
	3100:217	General Ecology	3
	3100:311	Cell Biology	3
		or	
	3100:331	Microbiology	4
		or	
	3100:130	Principles of Microbiology (with permission)	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).

# 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 grade-point 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.

		, , ,	
٠	Core Requirer	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 I	3
	3150:424	Analytical Chemistry II	3
	3150:472	Advanced Inorganic Chemistry	3
	3150:480	Advanced Chemistry Laboratory III	2
	3150:481	Advanced Chemistry Laboratory IV	2
٠	At least five cr	edits from the following:	
	3150:401	Biochemistry Lecture I	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 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
	3650:481	Methods of Mathematical Physics i	3
	9871:401	Introduction to Elastomers	3
	9871:402	Introduction to Plastics	3
	9871:407	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:			Credits	
	3450:221	Analytic Geometry-Calculus I	4	
	3450:222	Analytic Geometry-Calculus II	4	
	3450:223	Analytic Geometry-Calculus III	4	
	3450:235	Differential Equations	3	
٠	Physics:			
	3650:291,2	Elementary Classical Physics I, II	8	
٠	Recommended:			
	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 Arts**

• The General Education requirement and the second year of a foreign language.

	Chemistry:		
	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
	3150:423	Analytical Chemistry I	3
	3150:424	Analytical Chemistry II	3
•	At least five c	redits from the following:	
	3150:381	Advanced Chemistry Laboratory II	2
	3150:401	Biochemistry Lecture I	3
	3150:402	Biochemistry Lecture II	3

	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	
	3150:481	Advanced Chemistry Laboratory IV	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	Introduction to Elastomers	3	
	9871:402	Introduction to Plastics	3	
	9871:407	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 (or equivalent)	8	
•	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: Classics

3200: Classics; 3210: Greek; 3220: Latin

#### **Bachelor of Arts**

#### **Classical Languages**

• The General Education requirement.

٠	At least 39 d	lepartmental credits including the following:	Credits
	0000.000	Matheles, of Assist Crosse	2

	3200:289	Mythology of Ancient Greece	3
	3200:313	Archaeology of Greece	3
	3200:314	Archaeology of Rome	3
	3200:361	Literature of Greece	3
	3200:362	Literature of Rome	3
•	Two of the fo	llowing 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

- 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
3200:313	Archaeology of Greece	3
3200:314	Archaeology of Rome	3
3200:361	Literature of Greece	3
3200:362	Literature of Rome	3
	One of the following courses:	
3400:307	The Ancient Near East	3
3400:313	The Eastern Roman Empire	3
Choose ni	ne 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

It is strongly recommended that a major in classical civilization fulfill the foreign language requirement by taking two years of Greek or Latin.

## 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.
- At least 30 departmental credits including:

3250:200 3250:201	Principles of Microeconomics Principles of Macroeconomics	3 3
3250:201	Intermediate Macroeconomics	3
3250:400	Intermediate Microeconomics	3
3250:410	Internediate Microeconomics	3
Departmental	Electives	18
Mathematics:		
3450:215	Concepts of Calculus I	4
Statistics (one of the following):		
3470:460	Statistical Methods	4
	or	
3470:461	Applied Statistics	4
Electives — 3	34 credits.	

#### **Bachelor of Science in Labor Economics**

- The General Education requirement.
- At least 30 departmental credits including:

	ALIEASI SU UE	baranentai credits inciduing.		
	3250:200 3250:201 3250:330 3250:410	Principles of Microeconomics Principles of Macroeconomics Labor Problems Intermediate Microeconomics	3 3 3 3	
Two of the following:				
	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	
	0.470.461			
	3470:461	Applied Statistics	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
3300:315	Shakespeare: The Early Plays	3
3300:316	Shakespeare: The Mature Plays	3
3300:341	American Literature I	3
3300:371	Introduction to Linguistics	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 — 39 credits.

# 3350: Geography and Planning

#### **Bachelor of Arts**

- The General Education requirement and the second year of a foreign language.
- At least 26 departmental credits including the following:

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
3350:340	Cartography	3
3350:481	Research Methods in Geography and Planning	3
3350:483	Spatial Analysis	3
3350:496	Field Research Methods	3
At least one	e course from the following:	
3350:350	Geography of the United States 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

• Electives — 46 credits.

#### Bachelor of Science in Geography/Cartography\*

- Completion in the Community and Technical College of an Applied Science degree in the surveying option of the construction technology program or the computer drafting technology program.
- · Completion of General Education requirements.
- Completion of at least 47 credits of 300/400-level courses in addition to the General Studies requirement.
- At least nine credits of course work which will introduce students to a foreign culture. Such courses shall be selected by the student with the approval of the adviser in the Department of Geography and Planning. Such courses may be chosen from those foreign culture courses offered in any of the following areas: anthropology, classics, non-U.S. history and modern languages. Foreign language is strongly recommended.
- At least 30 credits in geography including the following:\*\*

3350:442	Thematic Cartography	3
3350:444	Applications in Cartography and Geographic Information Systems	3
3350:447	Introduction to Remote Sensing	3
3350:448	Advanced Cartography	3
3350:449	Advanced Remote Sensing	3
3350:481	Research Methods in Geography and Planning	3
3350:483	Spatial Analysis	3
3350:496	Field Research Methods	3

Students planning to pursue the Bachelor of Science in Geography/Cartography should select courses 2040:242 American Urban Society and 247 Survey of Basic Economics as general electives in their Community and Technical College program.

<sup>\*\*</sup> See department head for possible substitutions.

#### Bachelor of Arts in Geography/Travel and Tourism

- Completion of all requirements for the Associate Degree in the Airline/Travel Industry Option established by the Community and Technical College.
- Completion of General Education requirements and the second year of a foreign language.
- Completion of 47 credits of 300/400 level courses.
- Completion of at least 30 credits in geography, including the following:

		Credits
3350:100	Introduction to Geography	3
3350:300	Geography of Travel and Tourism	3
3350:305	Maps and Map Reading	3
3350:314	Climatology	3
3350:335	Recreation Resource Planning	3
3350:350	Geography of the U.S. and Canada	3
And at least to	wo of the following:	
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

# 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
٠	Non-Geology	Required Courses:	
	3150:151,2,3	Principles of Chemistry I, II	7
	3450:221, 2, 3	Analytical Geometry and Calculus I, II, and III	12
	3450:235	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
٠	Geology Elect	ive 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.

٠	<ul> <li>At least 47 departmental credits including:</li> </ul>		Credits
	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
٠	Non-geology	courses required for majors:	
	3150:151,2,3	Principles of Chemistry I, II	7
	3450:221,2	Analytic Geometry-Calculus I and I!	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 Ele	ctives 9 credits. At least three of the following course	s:
3460:201	Introduction to FORTRAN Programming or equivalent	3
3650:322	Intermediate Laboratory I	2
3650:323	Intermediate Laboratory II	2
3650:350	Computational Physics	3

 or equivalent
 3

 3650:406
 Waves
 3

 3650:431
 Mechanics I
 3

 3660:436
 Electomagnetism I
 3

 3650:468
 Digital Data Acquisition
 3

3650:431 and 3650:436 are strongly recommended for students planning to pursue a graduate degree in geophysics.

• Non-geology required courses:

3150:151,2,3	Principles of Chemistry I, II	7
3450:221,2,3	Analytic Geometry-Calculus I, II and III	12
3450:235	Differential Equations	3
3650:291,2	Elementary Classical Physics 1 and 1	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	з
3370:494	Geology Field Camp II	3
	Elective geology courses (minimum eight credits at the 300/400 level)	19
Non-geology o	courses required for majors:	
3150:151,2	Principles of Chemistry I	4
3450:149	Precalculus	4

11 Undergraduate geology adviser may approve substitution of 3650:261,2.

٠	At least seven credits from the following: Credits fr		Credits
	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 in history, but up to six credits in cognate fields may be substituted with the adviser's approval. These credits must include some distribution of United States and European or non-United States history; and 3400:310, Historical Methods (taken in the sophomore or junior year). The minimum shall be 16 credits in 300/400-level history courses.
- 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 Bachelor of Arts

#### Mathematics

- The General Education requirement and the second year of a foreign language.
- At least 40 departmental 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
3450:411,2	Abstract Algebra I, II	6
3450:421,2	Advanced Caiculus I, II	6
3450:445	Topology	7
	Math electives	7

- Complete nine credits of course work outside the major and beyond the General Studies in a suitable area of concentration as approved by the department.
- For the Bachelor of Arts degree; complete 18 credits of humanities or social sciences beyond the General Education requirement. The 18 credits are to be from more than one department.
- Electives 17 credits.

#### Applied Mathematics

The General Education requirement and the second year of a foreign language.

At least 40 departmental credits including:* Credi		
3450:221,2,3	Analytic Geometry-Calculus I, II, III	2
3450:235	Differential Equations	3
	or	
3450:335	Introduction to Ordinary Differential Equations	3
3450:307	Fundamentals of Advanced Mathematics	3
3450:312	Linear Algebra	3
3450:421,2	Advanced Calculus I, II	6
3450:427	Introduction to Numerical Analysis	3
3450:436	Mathematical Models	3
3470:461	Applied Statistics I	4
	Math electives	3
-		

- Complete a six-credit sequence at the 300/400 level in some approved area, such as chemistry, physics, engineering, economics, etc.
- Complete nine credits of course work outside the major and beyond the General Studies in a suitable area of concentration as approved by the department. These hours may include the six-hour sequence in the applied area described.
- For the Bachelor of Arts degree: complete 18 credits in the humanities and social sciences beyond the General Studies. These 18 credits are to be from more than one department.
  - Electives 17 credits.

#### **Cooperative Education Program**

#### Mathematical Sciences

#### 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/Work
3	School	Work	Schooi
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 mathematical sciences 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 of mathematical sciences 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 mathematical sciences curriculum.

A student who desires to participate in the program will fill out a Personal Data form and submit it to the department head. 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 head 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**

#### **Bachelor of Science**

• The General Education requirement and the second year of a foreign language.

Core curriculum:		Credits
3460:209	Introduction to Computer Science	4
3460:210	Data Structures and Algorithms I	4
3460:306	Assembly Language Programming	3
3460:307	Applied Systems Programming	3
3460:316	Data Structures and Algorithms II	3
3460:426	Operating Systems	3
3460:430	Theory of Programming Languages	3
3460:465	Computer Organization	3

<sup>\*</sup> 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.

#### Option I (Systems)

٠	<ul> <li>Other required courses:</li> </ul>		
	3450:208	Introduction to Discrete Mathematics	
	3450:221	Analytic Geometry-Calculus !	
	3450:222	Analytic Geometry-Calculus II	
	3460-419	Introduction to Disproto Structures	

0.001110		
3460:428	Unix System Programming	;
3470:461	Applied Statistics I	

Electives- approved upper-level computer science courses — 12 credits.

#### **Option II (Business)**

Other required courses:

3450:208	Introduction to Discrete Mathematics	4		
3450:215	Concepts of Calculus I	4		
3450:216	Concepts of Calculus II	4		
3460:302	Programming Applications with COBOL	3		
3460:475	Database Management	3		
3470:461	Applied Statistics I	4		
6200:201	Accounting Concepts and Principles for Business	3		
6200:202	Managerial Accounting	3		
Select two of the following courses:				
6400:371	Business Finance	3		
6500:301	Management: Principles and Concepts	3		
6600:300	Marketing Principles	3		

Electives- approved upper-level computer science courses --- 9 credits

# 3470: Statistics

#### **Bachelor of Arts**

#### **Bachelor of Science**

· The General Education requirement and the second year of a foreign language.

•	Core curriculum:		
	3450:221,2,3	Analytic Geometry-Calculus I, II and III	12
	3450:312	Linear Algebra	3
	3470:451,2	Theoretical Statistics I, II	6
	3470:461,2	Applied Statistics I, II	8

#### Options

Option I (Statistics)

•	Uther required	I COURSES:				
	3450:421	Advanced Calculus I	3			
	3450:422	Advanced Calculus II	3			
		Electives approved 300/400-level mathematical sciences courses	5			
	Option II (Applied Statistics)  • Other required courses:					

3470:415	Mathematical Concepts for Statistics
3470:480	Statistical Computer Applications
3470:495	Statistical Consulting
	Electives approved 300/400-level statistical courses

#### Option III (Actuarial Sciences BS only)

	-	-	
•	Other required courses:		
	3450:138	Mathematics of Finance	1
	3470:415	Mathematical Concepts for Statistics	4
		or	
	3450:421,2	Advanced Calculus I, II	6
	3470:471,2	Actuarial Science I, 1	6
		Select two of the following:	
	3450:427	Numerical Analysis	3
	3450:428	Numerical Linear Algebra	3
	3450:436	Mathematical Models	3
	3470:469	Reliability Models	3
	6500:421	Operations Research	3

• For the Bachelor of Science degree: complete 18 credits of course work outside the major and beyond the General Education requirement in a suitable area of concentration as approved by the department.

The recommended area of concentration for the Actuarial Sciences degree:

			Creaits
	6200:201,2	Accounting I, II	8
	6400:318	Risk Management and Insurance	3
	6400:371	Business Finance	3
_			

For the Bachelor of Arts degree: complete 18 credits of humanities or social sciences beyond the General Studies. The 18 credits are to be from more than one department.

• Electives — 13-17 credits.

#### 3500: Modern Languages

3520: French; 3530: German; 3550: Italian; 3570: Russian; 3580: Spanish.

#### **Bachelor of Arts**

#### French

Credits 4 4

4

3

3 4

4 3

2 2

3

- · 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

- 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 — 45 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 the second year of a foreign language.

•	Physics requirements:†		Credits
	A minimum of 40	credits at 200 level or higher, including:‡	
	3650:291,2	Elementary Classical Physics 1 and II	8
	3650:301	Elementary Modern Physics	3

<sup>†</sup> Additional physics courses are usually necessary to satisfy the admission requirements of graduate schools for advanced work in physics or certain other physical sciences.

<sup>‡</sup> Only one of the introductory sequences 291,2 or 261,2 is applicable toward the required 40 credits. Courses 3650:130, 133, 137, 138, and 160 are not applicable toward the required 40 credits of physics courses without special permission.

			Credits
	3650:322,3	Intermediate Laboratory I, II	4
	3650:340	Thermal Physics	3
	3650:431	Mechanics I	3
	3650:436	Electromagnetism I	3
	3650:441	Quantum Physics I	3
		Physics Electives	13
	Highly recommen	nded courses for all students:	
	3650:432	Mechanics II	3
	3650:437	Electromagnetism II	3
	3650:442	Quantum Physics II	3
	3650:451,2	Advanced Laboratory I, II	4
	3650:481,2	Methods of Mathematical Physics I, II	6
		Mathematics:	
	3450:221,2,3	Analytic Geometry-Calculus I, II and III	12
	3450:235	Differential Equations	3
•	Chemistry rec	quirements:	
	3150:132,3	Principles of Chemistry I, II	7
•	Computer Sci	ence requirement:	
	3460:201	Introduction to FORTRAN Programming	2

The following courses are recommended for students wishing to enhance their program of study in Physics:

Chemical Physics

	,		
	A suggested prog	gram of 20 credits to include the following:	
	3150:263,4	Organic Chemistry	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
٠	Polymer Phys	ics	
	A suggested prog	gram of 24 credits to include the following:	
	3150:263,4	Organic Chemistry	6
	3150:313,4	Physical Chemistry Lecture I, II	6
	9871:401	Introduction to Elastomers	2
	9871:402	Introduction to Plastics	2
	9871:411,2,3	Molecular Structure and Physical	
		Properties of Polymers I, II, III	7
٠	Physics (Pre-G	Graduate School)	
	A suggested prog	gram of 31 credits to include the following:	
	3650:406	Optics	3
	3650:432	Mechanics II	3
	3650:437	Electromagnetism II	3
	3650:481,2	Methods of Mathematical Physics I, II	6
	3650:399	Undergraduate Research	1-6
	3650:442	Quantum Physics II	3
	3650:451,2	Advanced Laboratory I, II	4

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 one of the important program areas of specialization listed above. These programs are intended to be illustrative only; considerable flexibility is possible, depending upon the needs and interests of the individual student.

The physics student may consider it important in the bachelor's degree programs to prepare in greater depth in other science areas (besides physics and mathematics) than may usually be possible within the traditional four-year departmental degree curricula.

# **Cooperative Industrial Employment Plan**

For the academically qualified undergraduate student majoring in physics, an optional cooperative plan is available which provides a scheduled sequence of professionally oriented industrial employment (totaling a full calendar year) alternating with periods of on-campus classroom instruction. This cooperative plan requires a five-year period for the completion of the bachelor's degree program in physics, with the spring term of the third year plus the fall and summer terms of the fourth year typically spent off campus with a participating industrial employer.

Arrangements are made on an individual basis and must be initiated by the student during the second year of undergraduate study. For further information, contact the department.

# **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.

No course may be repeated for a grade change more than once.

### 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:

Cradite

### American Track

		Ciculis
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-le	evel courses (may include 400-level course used to meet the A	American politics
requirement.		,

Choose one American politics course from among the following

Choose one A	ose 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.

### International/Comparative Track

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-lev	el courses (may include 400-level course 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

- Completion of all requirements for the associate degree in criminal justice technology established by the Community and Technical College.
- Completion of General Education requirement requirements.
- Completion of 47 credits of 300/400-level courses.
- 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. Courses may be chosen from any of the following departments: modern languages, history, political science, anthropology and geography.
- At least 30 departmental credits including:

	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	
	3700:370	Public Administration: Concepts and Practices	4	
	3700:380	Urban Politics and Policies	4	
	3700:395	Internship in Government and Politics	2-3	
		or		
	3000:301	Cooperative Education	0	
	3700:462	The Supreme Court and Civil Liberties	3	
	3700:480	Policy Problems: Criminal Justice	3	
,	One upper div	ision American politics course from among the followin	g:	

3700:341	The American Congress
3700:350	The American Presidency
3700:360	The Judicial Process
3700:402	Politics and the Media
3700:474	Political Opinion, Behavior and Electoral Politics
3700:475	American Interest Groups
3700:476	American Political Parties

# 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:

```
3700-100
                    Government and Politics in the United States
                                                                                         4
                    Introduction to Political Research
                                                                                         3
  3700:201
  3700:395
                    Internship: Government and Politics
                                                                                         3
                                                                                         0
                    Co-op Collegewide Level
  Choose three of the following Policy-Related Options:
                    Advanced Political Research
                                                                                         3
  3700:301
  3700:370
                    Public Administration: Concepts and Practices
                                                                                         4
  3700:441
                    Policy Process
                                                                                         3
                    Methods of Policy Analysis
                                                                                         3
  3700:442
  3700:480
                    Policy Problems
                                                                                         3
   Two 3700:400-level courses (may include 400-level courses used to meet policy-related option)
   Political Science electives
                                                                                         9

    Accounting:

   6200:490
                    Special Topics: Financial Management for Non-Profit Organizations
                                                                                         3
   6200:250
                    Computer Applications for Business
                                                                                         3
  Computer Science:
   3460:126
                    Introduction to Basic Programming
                                                                                         2
  Economics:
   3250.200
                    Principles of Microeconomics
                                                                                         3

    Statistics:

   3470:260
                    Basic Statistics
                                                                                         3
  Psychology:
  3750:100
                    Introduction to Psychology
                                                                                         3

    Management:

   6500:301
                    Management: Principles and Concepts
                                                                                         з
   6500:341
                    Human Resource Management
                                                                                         3

    Choose one of 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 head of the department.

# 3750: Psychology

# **Bachelor of Arts**

Credits

3

3

3

The General Education requirement and a minimum of 40 credits in psychology including:

f core requirements:	Credits
Introduction to Psychology	3
Professional and Career Issues in Psychology	1
Quantitative Methods in Psychology	4
Introduction to Experimental Psychology	4
rom the following six courses:	
Developmental Psychology	4
Biopsychology	4
Dynamics of Personality	4
Social Psychology	4
Cognitive Processes	4
	Introduction to Psychology Professional and Career Issues in Psychology Quantitative Methods in Psychology Introduction to Experimental Psychology rom the following six courses: Developmental Psychology Biopsychology Dynamics of Personality Social Psychology

 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.

4

Psychological Tests and Measurements

 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; 3870: Anthropology)

### **Bachelor of Arts**

### Sociology

3750.410

- · The General Education requirement and the second year of a foreign language.
- A minimum of 30 credits in sociology including:

3850:100	Introduction to Sociology	4
3850:301,2	Methods of Social Research I and II	6
3850:403	History of Sociological Thought	3
3850:404	Contemporary Sociological Theories	3
	Sociology Electives	14
12070-150 Cul	tural Anthropology cap be couldted as part of these credits)	

(3870:150 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, family, agency and life cycle, urban planning and social research.

### Sociology/Law Enforcement

The General Education requirement and the second year of foreign language.

A minimum of 33 credits in the department including:

	ee ereene mane -epermeene g		
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	
3850:403	History of Sociological Thought	3	
3850:404	Contemporary Sociological Theories	3	
3850:430	Juvenile Delinquency	3	
3850:433	Sociology of Deviant Behavior	3	
3850:441	Sociology of Law	3	
3850:495	Research Internship	2	

Electives

Students who enter the Sociology/Law Enforcement program from the University College, or by transfer, must complete course work in the Criminal Justice

Technology program. This may be done in one of two ways: (1) complete the program requirements for an A.S. in criminal justice; or, (2) complete 18 credits of criminal justice technology course work. The appropriate course work will be determined by the student's sociology/law enforcement adviser.

### Sociology/Corrections

The General Education requirement and the second year of a foreign language.

A minimum	of 33 credits in sociology including:	Credits
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
3850:330	Criminology	3
3850:403	History of Sociological Thought	3
3850:404	Contemporary Sociological Theories	3
3850:429	Probation and Parole	3
3850:430	Juvenile Delinquency	3
3850:431	Corrections	3
3850:495	Research Internship	2
- Electricity		

Electives

Students who enter the Sociology/Corrections program from the University College, or by transfer, must complete course work in the Criminal Justice Technology program. This may be done in one of two ways: (1) complete the program requirements for an A.S. in criminal justice; or, (2) complete 18 credits of criminal justice technology course work. The appropriate course work will be determined by the student's sociology/corrections adviser.

# Bachelor of Arts in Interdisciplinary Anthropology

This interdisciplinary program allows the student the flexibility to construct a program of study in four fields of Anthropology. To do so, students are required to complete coursework in departments other than Sociology/Anthropology. Cooperating departments include Biology, Classics, English, Geography and Planning, Geology, History, Modern Languages, and Sociology.

The General Education requirement and the second year of a foreign language.

Core requirements – 13 credits

3870:150 Cul 3870:151 Eve	roduction to Linguistics Itural Anthropology olution of Man and Culture roduction to Archaeology	3 4 3 3
------------------------------	---	------------------

Concentration Electives - a minimum of one course each from three of the fol-٠ lowing four fields for a total of 15 credits

Archaeological 3370:405 3870:356	Archaeological Geology Archaeology of the Americas	3 3
Biological		
3100:111, 112	Principles of Biology	8
3100:217	General Ecology	3
3100:315, 316	Evolutionary Biology and Discussion	4
Cultural		
3350:330	Rural and Urban Settlement	3
3850:100	Introduction to Sociology	4
3850:302	Methods of Social Research II	3
3870:270	Cultures of the World	3
3870:357	Magic, Myth and Religion	3
3870:397	Anthropological Research	3
3870:405	History and Theory in Anthropology	3
3870:463	Social Anthropology	3
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

Program Electives - a minimum of 18 credits from the following four fields. Students are urged to concentrate in two fields.

Archaeological		
3010:201	People and the Environment	3
3200:313	Archaeology of Greece	3
3200:314	Archaeology of Rome	3
3200:401, 402	Egyptology I and II	6
3200:404, 405	Assyriology	6

		Credits
3200:407, 408	Ancient Near Eastern Archaeology	6
3350:310	Physical and Environmental Geography	3
3350:305	Maps and Map Reading	3
3350:340	Cartography	3
3350:495	Soil and Water Field Studies	3
3370:122	Mass Extinctions in Geology	1
3370:123	Interpreting Earth History	1
3370:126	Natural Disasters and Geology	1
3370:127	Ice Age and Ohio	1
3370:128 3370:130	Geology of Ohio	1
3370:411	Geologic Record of Climate Change	1 3
3370:411	Glacial Geology	3
3400:307	Ancient Near East Greece	3
3400:308	Rome	3
3400:312	Roman Republic	3
3400:413	Roman Empire	3
0400.410	Homan Empire	5
Biological		
3100:208, 209	Human Anatomy and Physiology	8
3100:211, 212	General Genetics & Laboratory	4
3100:315, 316	Evolutionary Biology & Discussion	4
3100:381	Human Genetics	2
3100:428, 429	Biology of Behavior & Laboratory	4
3100:458	Vertebrate Zoology	4
3100:467	Comparative Vertebrate Morphology	4
Cultural		
3300:350	Black American Literature	3
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	Women in Modern Europe	3
3400:416	Modern India	3
3400:472	Latin America: Origins of Nationality	3
3400:475	Mexico	3
3400:476	Central America and the Caribbean	3
3580:427	Spanish Culture and Civilization (in Spanish)	3
3850:320	Social Inequality	3
3850:321	Population	3
3850:323	Social Change	3
3850:340	The Family	3
3850:344	The Sociology of Sex Roles	3
3850:421	Racial and Ethnic Relations	3
3850:423	Sociology of Women	3
3870:355	Indians of South America	3
3870:358	Indians of North America	3
3870:397	Anthropological Research	1-3
3870:455	Culture and Personality	3
3870:457	Culture and Medicine	3
3870:472	Special Topics: Anthropology	3
Linguistics		
3300:471	U.S. Dialects: Black and White	3
3300:472	Syntax	3
35xx:xxx	Two semesters of a foreign language different from that used	6-8
	to fulfill the student's undergraduate requirement,	
	including French, German, Italian, Spanish, Russian, Greek, or Latin	
3580:405	Spanish Linguistics: Phonology	4
3580:406	Spanish Linguistics: Syntax	4
7600:325	Intercultural Communications	3
7700:430	Aspects of Normal Language Development	3
Floctives		

Credits

7 Electives

# **Division Majors**

### Humanities

The humanities division consists of the departments of classics, 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:

<ul> <li>Classics:</li> </ul>		Credits
3200:361	The Literature of Greece The Literature of Rome	3
3200:362 3200:189	Classical Mythology	3 3
English:		
300/400 level,	including at least two courses at the 400 level (minimum)	9
<ul> <li>History:</li> </ul>		
	300/400 level (minimum)	10
Modern La	nguages:	
	Composition and Conversation	6
	Literature	6
	Any combination of linguistics and culture-civilization	6
<ul> <li>Philosophy:</li> </ul>		
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, mathematical sciences, physics and polymer science. The divisional major must include:

- The General Education requirement.
- 47 credits at the 300-400 level.
- A minimum of 64 credits in the division and/or engineering, at least 27 of which must be in divisional courses 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 from those courses approved by the department offering the course. In general, only courses available toward the major are acceptable. 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 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-c	redit requirement must include:	Credits
	100 Introduction to Economics* (must include 3250:200 Principles of and 3250:201 Principles of Macroeconomics )	15
<ul> <li>Geography:</li> </ul>		15
<ul> <li>History:</li> </ul>		15
At least seven of	the 15 credits at the 300/400 level	
<ul> <li>Political Science</li> </ul>	ce:	15
At 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:

American Go	vernment 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 Pcricies	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
Comparative	Politics:	
3700:300	Comparative Politics	4
3700:320	Britain and the Commonwealth	3
3700:321	Western Europe Politics	3
3700:322	Soviet and East European Politics	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
International	Politics:	
3700:220	American Foreign Policy	3
3700:310	International Politics and Institutions	4
3700:415	Comparative Foreign Policy	3
Political Theo	ry:	
3700:302	American Political Ideas	3
3700:303	Introduction to Political Thought	3
3700:304	Modern Political Thought	3
<ul> <li>Psychology</li> </ul>	:	15
<ul> <li>Sociology-A</li> </ul>	Inthropology:	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.

\* Course will not apply toward 54 credits in the major.

# **Bachelor of Science/Doctor of** Medicine Degree (B.S./M.D. Program)

### Introduction

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 completion of high school are eligible. The deadline for application to the program is December 31.

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.

# Requirements

Group I: 15 hou	irs		Credits
<ul> <li>Required:</li> </ul>			
1880:310	Humanities in Medical Education		3
<ul> <li>Remaining 12</li> </ul>	credits from among the followir	ng:	
Classics (3200)		Greek (3210)	
Latin (3220)		English (3300)	
History (3400)	M(	Philosophy (3600)	201
Group II: 13 ho	Western Tradition I, II (3400:210,211)	World Civilizations (3400:38	-391)
•	urs		
<ul> <li>Required:</li> </ul>			
7600:105	Introduction to Public Speaking or		3
7600:106	Effective Oral Communication		3
3300:111	English Composition I Honors		4
3300:112	English Composition II Honors or		3
	Other approved writing class		3-4
<ul> <li>Remaining cr</li> </ul>	edits from among the following:		
0	es (3520-3580 300 level or above)	Art (7100)	
Music (7500)		Musical Organizations (7510)	)
Applied Music (7		Theatre Arts (7800)	
Theatre Organiza Dance Organizati		Dance (7900)	
Group III: 9 hou	irs		
<ul> <li>Required:</li> </ul>			
3750:100	Introduction to Psychology		3
<ul> <li>Remaining six</li> </ul>	credits from among the following	ng:	
Economics (3250	))	Geography (3350)	
Political Science	(3700)	Psychology (3750)	
Sociology (3850)		Anthropology (3870)	
	ours (sati <b>sfies requiremen</b> t for	Natural Sciences	
Divisional majo	or).*		
<ul> <li>Required:</li> </ul>			
Mathematics			
3450:221	Analytical Geometry Calculus I		4
3460:125 3470:261,2	Descriptive Computer Science Introductory Statistics I, II		2 4
34/0.201,2	introductory statistics i, it		4

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.

Biology		Credits
3100:111,112	Principles of Biology I, II	8
3100:211	Genetics	3
3100:461,2	Human Physiology	8
3100:365	Histology	3
	(plus 5 additional biology 300/400 credits—may be transferred from NEOUCOM)	
Chemistry		
3150:151,153	Principles of Chemistry I, II	6
3150:152	Principles of Chemistry I Laboratory	1
3150:154	Qualitative Analysis	2
3150:263,264	Organic Chemistry I, II	6
3150:265	Organic Chemistry Lab	2
3150:401,402	Biochemistry I, II	6
Physics		
3650:261,262	Physics for Life Sciences	8

### Free Electives: 14 hours

Free electives may be selected from any departments except physical education (5540), mathematical sciences (3450, 3460, 3470) and sciences (3100, 3150, 3370, 3650). Credits earned in excess of requirements for any Group I-III may be applied toward this free elective requirement. (May be taken on credit/noncredit basis.)

### Specific B.S./M.D. Program Requirements: 10 hours

2780:290	CPR	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: <sup>T</sup>		
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 possible but honors work in the divisional major will not be required. In the exceptional case, a nonhonors section of English Composition may be approved
- 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. Their General Studies requirement will be met by satisfying B.S./M.D. Honors Groups I through III plus three credits of math, six credits of science, and physical education.

† These seven credits will substitute seven of the required free elective credits.

# College of Engineering

Irving F. Miller, Ph.D., Dean

- Max S. Willis, Jr., Ph.D., Associate Dean, Research and Graduate Studies
- Paul C. Lam, Ph.D., Associate Dean, Undergraduate Studies and Minority Affairs

Deanna Dunn, Coordinator of Engineering Cooperative Education Program

# **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)

Students transferring from other colleges and universities must meet the same standards as The University of Akron students except that the minimum grades for courses equivalent to 3450:221 and 3450:222, must be "C." If the transfer is from an ABET-accredited program, the minimum grade-point average is 2.3, for non-ABET-accredited programs, the minimum grade-point average is 2.5, and for community colleges the minimum grade-point average is 3.00. Students who do not meet these requirements should contact the Office of Admissions.

# 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 Chemical Engineering, Civil Engineering, Electrical Engineering, Computer Engineering, Mechanical Engineering, Mechanical Polymer Engineering, Engineering, and Bachelor of Construction Technology.

# **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.

# **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

The goal of chemical engineering education is the development of 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.

The chemical engineer, like all other engineers, is trained in mechanics, materials, economics, systems, and controls. The chemical engineer differs from all other engineers because the chemical engineer is responsible for materials separations such as air into components of oxygen, nitrogen, argon; and conversion of matter such as natural gas into plastics and coal into liquid fuel.

The chemical engineer finds careers in the chemical process industries, usually becoming involved with inorganic and organic chemicals, rubber, polymers, detergents, petroleum products, metals, pharmaceuticals, biochemical, and food products. The chemical engineer will usually be employed in one or more of the following activities: research and development, plant design and construction, process control, plant operations, sales and management. In addition to the processing industries, the chemical engineer is increasingly in demand in such areas of current interest as management of environment, biotechnology, and energy engineering.

Accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

General Education - 30 credits.

Natural science:		Credits
3150:151,2,3	Principles of Chemistry I/Lab, II	7
3150:154	Qualitative Analysis	2
3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
3450:235	Differential Equations	3
3450:xxx	Advanced Mathematics Elective	2
3650:291,2	Elementary Classical Physics I, II	8

•	Advanced che	mistry:	Credits
	3150:263,4 3150:265 3150:313,4	Organic Chemistry I, II Organic Chemistry Laboratory Physical Chemistry I, II	6 2 6
٠	Engineering co	pre:	
	4100:101 4200:121 4200:305 4300:201 4400:320	Tools for Engineering Chemical Engineering Computations Materials Science Statics Basic Electrical Engineering	3 2 2 3 4
٠	Chemical engi	neering:	
	4200:200 4200:225 4200:321 4200:320 4200:330 4200:351 4200:352 4200:353 4200:435 4200:441 4200:441 4200:442	Material and Energy Balances Equilibrium Thermodynamics Transport Phenomena I Transport Phenomena II Chemical Reaction Engineering Fluid and Thermal Operations Transport Laboratory Mass Transfer Operations Process Analysis and Control Process Economics and Design Plant Design Operations Laboratory	4 3 3 3 2 3 3 4 4 1
•	Electives:	Advanced Chemistry or Polymer Science Engineering Design (two courses)	3 6

### Polymer Engineering Specialization Certificate

The College also offers a Polymer Engineering Specialization Certificate to Chemical Engineering students. To achieve a specialization, a student must take one of the following courses:

4700:401	Introduction to Elastomers
4700:402	Introduction to Plastics
4700:407	Polymer Science

and two of the following:

4200:408	Polymer Engineering
4700:425	Introduction to Blending and Compounding of Polymers
4700:427	Mold Design

# 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 will be incorporated into courses in each area. The senior civil engineering design course will present 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.

- Accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.
- General Education 29 credits
- Natural Science:

3150:151,2,3	Principles of Chemistry I+Lab, II	7
3370:101	Introduction to Physical Geology	4

		Credits
3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
3450:235	Differential Equations	3
3650:291,2	Elementary Classical Physics I,II	8
Engineering C	ore:	
4100:101	Tools for Engineering	3
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	ing:	
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
4300:490	Senior Design	3
Electives:		
Technical Elec	ctives 12	
(One	course required: Civil Engineering Design)	

 3450:427
 Introduction to Numerical Analysis
 3

 3470:461
 Applied Statistics
 4

 4600:360
 Engineering Analysis
 3

# 4400: Electrical Engineering

### **Electrical Engineering Profession**

Engineering is that profession in which knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

The branches of electrical engineering include: research, development, design, manufacture and operation of electrical and electronic products, 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.

A student wishing to continue education in graduate school, law school or medical school will find specialized programs of preparation are available within the framework of the department of electrical engineering.

# **Electrical Engineering Curriculum**

The electrical engineering curriculum includes one year of science and mathematics, one-half year of humanities and social sciences and two years of engineering topics, of which approximately two thirds are in engineering science and one third in engineering design, to ensure that graduates are prepared to meet the challenges of the electrical engineering profession. Assessment of students during study includes advising, design projects and documented student work and progress. An Engineering co-op option affords a year of industrial experience before senior-year specialized electives are chosen.

The engineering design component of the curriculum is integrated throughout the curriculum so that the practical application of engineering science can be realized. In addition, electrical engineers particularly need computer-related design skills. These are developed starting very early in the program.

Eight laboratories, taught as part of specific courses, help prepare the student for work in the industrial environment.

A significant measure of an 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. Evaluation beyond the conclusion of the program includes evaluation of the program outcome and adjustment in the workplace through interviews and questionnaires.

Accredited by the Engineering Accreditation Commission of the Accreditation Board For Engineering and Technology

•	General	Education	<ul> <li>— 30 credits.</li> </ul>
•	General	EQUCATION	— so creans.

•	Natural scien	ce:	Credits
	3150:151,2,3	Principles of Chemistry I/Lab, II	7
	3450:221,2,3	Analytic Geometry-Calculus I, II, III	12
	3450:235	Differential Equations	3
	3650:291,2	Elementary Classical Physics I, II	8
	3650:301	Elementary Modern Physics	3
•	Engineering (	core:	
	4100:101	Tools for Engineering	3
	4200:305	Materials Science	2
	4300:201	Statics	3
	4300:202	Introduction to Mechanics of Solids or	3
	4600:203	Dynamics	3
	4450:208	Programming for Engineers	3
	4600:305	Thermal Science	2
•	Electrical eng	jineering:	
	4400:231,2	Circuits I, II	6
	4400:243	Signał Analysis	3
	4400:333	Discrete-Time Systems	3
	4400:340	Electric Circuits Laboratory	1
	4400:353	Electromagnetic Fields I	4
	4400:354	Electromagnetics II	3
	4400:360	Physical Electronics	3
	4400:361	Electronic Designs	4
	4400:363	Switching and Logic	4
	4400:371	Control Systems I	4
	4400:384	Energy Conversion I	3
	4400:385	Energy Conversion Lab	2
•	Electives:	Electrical Engineering Electives	18

# 4450: Computer Engineering

Engineering is that profession in which knowledge of the mathematical and natural sciences gained by study, experience and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

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 curriculum at The University of Akron combines a year of science and mathematics and a half-year of humanities and social studies with over two years of electrical engineering and computer science courses. The development of communication skills is fostered throughout the program, as is the use of regularly updated, professional level computer tools. An engineering co-op option affords a year of industrial experience before senior year specialized electives are chosen. A portfolio is accumulated during the program, representing at least a half year of engineering design experience. The engineering design activity culminates in a senior year project in which a design is created and fully communicated before implementation, in conformance with best engineering practice.

A significant measure of an 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. This entails evaluation and outcome assessment during and after the completion of the program. Assessment of students during study includes advising, design projects and documented student work and progress. Evaluation beyond the conclusion of the program includes evaluation of the program outcome and adjustment in the workplace through interviews and questionnaires.

The program will be submitted for accreditation to the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology in the vear 2002.

General Education – 30 credits

•	Natural sc	vience:	Credits
	3450:208 3450:221,2,3 3450:235 3650:291,2 3470:450	Differential Equations	4 12 3 8 3
٠	Engineerii	ng Core:	
•	4100:101 4450:208 4450:495,6	Introduction to Computer Engineering Tools for Engineering Programming for Engineers Design Project I,II Engineering:	1 3 6
	4400:231,2 4400:243 4400:333 4400:340 4400:360 4400:363 4400:451 4400:465 4400:470	Circuits I, II Signal Analysis Discrete-Time Systems Circuits Laboratory Physical Electronics Switching and Logic Electromagnetic Compatibility Programmable Logic Microcomputer Interfacing	6 3 1 3 4 3 3 3 3
•	Computer	Science:	
	3460:210 3460:306 3460:316 3460:426 3460:465	Data Structures & Algorithms i Assembly Language Programming Data Structures & Algorithms II Operating Systems Computer Organization	4 3 3 3 3
•	Computer	r Engineering:	
	4450:370 4450:420 4450:480	VLSI Design Object Oriented Design Advanced Processor Design	3 3 3
•	Electives:		
		Iral Science Elective Inputer Engineering Electives	3 6

# 4600: Mechanical Engineering

Engineering is that profession in which knowledge of the mathematical and natural sciences gained by study, experience and practice is applied with judgement to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

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 both thermal-stem and structures and motion-stem of mechanical engineering, as well as the application of these principles to pertinent problems. The program contains at least one year of science and mathematics, one-half year of humanities and social sciences, and one and one-half year of engineering topics of which two thirds are engineering sciences and one third are engineering design. The engineering design experiences begin early in the curriculum and are integrated throughout, culminating in design and computer experience based on knowledge and skills acquired in earlier coursework and incorporating engineering standards and realistic constraints such as economics, health, and safety. 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.

Through a formal assessment process, the Department of Mechanical Engineering documents student progress and outcomes to ensure that graduates are able to apply the fundamentals of mathematics, science, and engineering to:

- design and conduct experiments;
- analyze and interpret data;
- design systems, components and/or processes to meet desired needs;
- identify, formulate and solve mechanical engineering problems; and
- use the techniques, skills and modern engineering tools required for the practice of engineering today.

The program is accredited by the Engineering Accreditation Commission of the

Accreditation Board for Engineering and Technology.

٠	General	Education —	30 credits.
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-	General Education — 30 credits.		
•	Natural science	e:	Credits
	3150:151,2,3 3450:221,2,3	Principles of Chemistry I/Lab, II Analytic Geometry-Calculus I, II, III	7 12
	3450:235	Differential Equations	3
		Mathematics/Science Elective	3
	3650:291,2	Elementary Classical Physics I, II	8
٠	Engineering o	ore:	
	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 er	ngineering:	
	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 System Design	3
	4600:460	Concepts of Design	3
	4600:461	Design of Mechanical Systems	2
	4600:483	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**

The College also offers a Polymer Engineering Specialization Certificate to Mechanical Engineering Engineering students. To achieve a specialization, a student must take 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 elect to choose a Design of Mechanical Systems or Design of Energy systems or polymer-related project in lieu of one of the above 4700 polymer engineering courses.

# 4700: Mechanical Polymer Engineering

Engineering is that profession in which knowledge of the mathematical and natural sciences gained by study, experience and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

The Department of Mechanical Engineering in cooperation with the Department of Polymer Engineering has developed an undergraduate program which integrates mechanical engineering science and design with polymer processing science and technology.

The program contains at least one year of science and mathematics, one-half year of humanities and social sciences, and one and one-half year of engineering topics in which two thirds are engineering sciences and one third are engineering design. The engineering design experiences begin early in the curriculum and are integrated throughout, culminating in design and computer experience based on knowledge and skills acquired in earlier coursework and incorporating engineering standards and realistic constraints such as economics, health, and safety.

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 that is characterized by continued professional growth.

Through a formal assessment process, the Department of Mechanical Engineering documents student progress and outcomes to ensure that graduates are able to apply the fundamentals of mathematics, science, and engineering to:

- design and conduct experiments;
- analyze and interpret data;
- · design systems, components and/or processes to meet desired needs;
- · identify, formulate and solve mechanical engineering problems; and
- use the techniques, skills and modern engineering tools required for the practice of engineering today.

This degree program will be submitted for accreditation to the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology in 2002.

General Education - 30 credits

•	Natural Scienc	e:	Credits
	3150:151,2,3 3450:221,2,3 3450:235 3650:291,2	Principles of Chemistry I/Lab, 11 Analytic Geometry-Calculus I,II,II1 Differential Equations Elementary Classical Physics I, II	7 12 3 8
•	Engineering C	ore:	
	4300:201 4300:201 4400:320 4600:165 4600:203 4600:300 4600:310	Statics Intro to Mechanics of Solids Basic Electrical Engineering Tools for Mechanical Engineering Dynamics Thermodynamics I Fluid Mechanics	3 4 3 3 4 3
•	Mechanical Er	ngineering:	
•	4700:281	Thermodynamics II Heat Transfer Analysis of Mechanical Components Design of Mechanical Components Systems Dynamics and Response Engineering Analysis Mechanical Metallurgy Thermal System Components Design of Energy Systems Fundamentals of Mechanical Vibrations Control System Design Concepts of Design Measurements Laboratory Heering-Polymer Science: Polymer Science for Engineers	3 3 3 3 3 2 3 2 3 3 2 2 3 3 2 2 2
	4700:381	Polymer Morphology for Engineers	3
•	Polymer Engir	•	
	4700:321 4700:422 4700:425 4700:427 4700:450 4700:451 4600:461	Polymer Fluid Mechanics Polymer Processing Intro to Blending and Compounding of Polymers Mold Design Engineering Properties of Polymers Polymer Engineering Laboratory Design of Mechanical Systems or	3 3 3 3 2 2 2
	4600:401	Design of Thermal 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.

# 4980: Construction Technology

### Objectives

The purpose of the Construction Technology program within the College of Engineering is to:

- prepare students for careers in the construction industry and other allied industries.
- emphasize this undergraduate program as the University's response to the construction industry's need for well-educated professionals active in a complex and diverse construction environment.
- promote a strong sense of ethics and professionalism.

# **Cooperative Work Study Requirement**

The required Cooperative Work Study experience of the Construction Technology program consists of 52 weeks of construction work experience which may begin after the student has completed 34 hours of coursework in the Construction Technology program. To be qualified for the co-op program (Option A and B) the student must have a minimum quality grade-point average of 2.25 out of a possible 4.0 for Construction Technology courses. During the cooperative phase of this program the student is employed full-time in the construction industry. This schedule provides simultaneously for the development of fundamental principles in the classroom and for their application in construction practice.

Co-op work periods vary depending upon the needs of employers. The co-op requirement can be satisfied by any one of the following options:

- A. One calendar year.
- B. Three semesters: (Summer, Fall, Summer or Fall, Summer, Fall)
- C. Departmental review of prior construction work experience.

Students having prior construction work experience should submit to the Construction Technology Co-op Review Committee appropriate documentation before completing the 34 semester hours within the College of Engineering or prior to their signing their departmental contract. The Construction Technology Co-op Review Committee will determine whether this work experience satisfies the co-op requirement.

# **Requirements for Admission**

Applicants for the Construction Technology program must hold an associate degree in Construction and Surveying from an accredited program or provide evidence of an equivalent academic background. The applicant must have a minimum cumulative grade-point average of 2.1 out of a possible 4.0. Applicants with an associate degree in a discipline other than Construction and Surveying 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 Technology program.

# Degree

The college offers curricula leading to the degree of Bachelor of Construction Technology.

### **Requirements for Graduation**

- Compliance with University requirements (See Section 3 of this Bulletin)
- Completion of the Program of Study for Construction Technology Program and a minimum of 137 credits of course work.
- · Satisfy the Cooperative Work Study Requirement.
- The program is a "two-plus-three" arrangement with the Community and Technical College. All students must meet the requirements of both the associate degree in the Community and Technical College and the Construction Technology degree in the College of Engineering.
- Transferees may be admitted to the program upon recommendation by the director.

### Curriculum

The curriculum in Construction Technology is designed to produce a graduate with a strong fundamental knowledge of technology, combined with management ability and a familiarity with business, economics and personnel management. The program is designed to prepare graduates for employment at all levels of the construction industry and allied support industries. The Construction Technology program normally covers three calendar years, two years of academic study and one year of co-op.

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.

٠	General Education — 15 credits.		
•	Required Scie	nce and Mathematics — 7 credits:	Credits
	2030:356	Calculus for Technical Applications	3
	3370:101	Introduction to Physical Geology	4
•	Required Tech	nnical Courses — 28 credits:	
	2920:244	Dynamics	2
	4980:352	Field Management	2
	4980:354	Foundation Construction Methods	3
	4980:356	Safety in Construction	2
	4980:357	Construction Administration	2
	4980:358	Advanced Estimating	3
	4980:361	Construction Formwork	3
	4980:453	Legal Aspects of Construction	2
	4980:462	Mechanical Service Systems	3
	4980:463	Electrical Service Systems	3
	4980:466	Hydraulics	3
•	Required Busi	iness Courses — 12 credits:	
	6200:201	Accounting Concepts and Principles	3
	6200:202	Managerial Accounting	3
	6400:371	Business Finance	3
	6500:301	Management Principles and Concepts	3
•	Technical Elec	ctives 7 credits:	
	3370:310	Geomorphology	3
	3460:201	Introduction to FORTRAN Programming	3
	4300:313	Soil Mechanics	3
	4300:314	Geotechnical Engineering	3
	4300:361	Transportation Engineering	3
	4300:414	Design of Earth Structures	3
	4300:418	Soil and Rock Exploration	3
	4300:450	Urban Planning	2
	4300:474	Underground Construction	2
	4980:351	Construction Quality Control	2
	4980:355	Computer Applications in Construction	3
	4980:465	Heavy Construction Methods	3
	4980:467	Special Projects	1-3
	4980:468	Construction Management	3
	4980:470	Advanced Construction Graphics	3

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# **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 or pre-medicine. The program of study may be very narrow as in the case of a student wishing to specialize in structural design, foundations 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.

Entrance to this 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 B.S.E. program may enable the student to prepare for career goals. The mathematics, physics and chemistry requirements are identical to those of the ABET approved programs of the college.

	Credits
General Education and Science Core	61
Program Options Engineering	40
Program Options	26
Free Electives, adviser approval	10

# College of Education

Rita S. Saslaw, Ph.D., Interim Dean Robert K. Eley, Ed.D., Assistant Dean, Initial Programs Sandra C. Coyner, Ed.D., Assistant to the Dean

# **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 offerings. For further information about specific programs and requirements, contact the Dean's office.

# **COLLEGE REQUIREMENTS**

# Selection, Admission, Retention, and Teacher Certification\*

The College of Education has selective admission, retention, and graduation requirements for the completion of a program at The University of Akron.

A student admitted to The University of Akron, Fall 1996 Semester and thereafter will be expected to meet certain requirements of the College of Education and the respective department. The final decision for admission will be made by the student's department.

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.

- 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).
- 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, 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 and reading subscore of 171, 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.
- Good Moral Character Ohio law requires that all students sign a statement attesting to good moral character.
- College of Education Application All students must complete a College of Education application form.

Important Note: New State licensure requirements go into effect September 2, 2002. Beginning July 1, 1998, all students admitted to teacher education programs will fall under the new standards. All current students must complete their degrees and the certification application process by July 1, 2002 to qualify under the current standards. Students who question their program should seek College of Education advisement.

# 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 to teach.
- 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.
- Certification After graduation, students may apply for certification through the Office of Student Services. The State of Ohio requires all applicants for certification to pass the National Teachers Examination (NTE). Information about specific requirements for specific certificates can be obtained from the departments. 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.

These requirements do not apply to non-teacher certification degree programs. See specific
program requirements for those areas.

- Coursework Coursework over ten years old may not be applicable for certification. 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: pre-kindergarten, elementary; the conventional academic fields found in middle, junior and senior high schools; the special fields of art, drama, dance, business, home economics, music, health education, education of exceptional pupils and post-secondary 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 elementary 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. 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 recommen dation for certification 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 certification in at least one-half 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 done in the public schools under the direction of a cooperating teacher and a representative of the College of Education faculty.

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.

# Certification

Every teacher in Ohio public schools is required to have a teaching certificate covering the fields in which teaching is being done. This certificate is issued by the Ohio State Department of Education upon recommendation of the dean of the college. The student must pass the National Teacher Examination, complete the appropriate program requirements successfully, and be recommended for a teaching certificate. Application for the certificate may be obtained from the Office of Student Services, College of Education, Zook Hall 213; (330) 972-7696.

# 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: Elementary Education**

### Elementary

The elementary program is for those preparing to teach in grades one through eight inclusive. Students in this program must achieve a "C" or better in all 5200 courses in order to student teach. Requirements for a major in elementary education are as follows:

General Educ	ation — 43 credits	Credits
3300:111	English Composition I* (Minimum grade of C or better)	4
3300:112	English Composition II* (Minimum grade of C or better)	3
3350:100	Introduction to Geography*	3
3400:250	United States History*	4
	or	
3700:100	Government and Politics in the United States*	4
5540:xxx	Physical Education*	1
7600:105	Introduction to Public Speaking*	3
	or	
7600:106	Effective Oral Communication*	3
3450/3470:xxx	Math Requirement* (3450:100 does not count)	3
	Natural Sciences*	8
	(See General Education program under University College.	
	For certification, at least 4 credits must be in Biology.)	
	Humanities	10
	(See General Education program under University College)	
	Area Studies/Cultural Diversity Requirement	4
	(See General Education program under University College)	
	3300:111 3300:112 3350:100 3400:250 3700:100 5540:xxx 7600:105 7600:106	3300:112       English Composition II* (Minimum grade of C or better)         3350:100       Introduction to Geography*         3400:250       United States History*         or       or         3700:100       Government and Politics in the United States*         5540:xxx       Physical Education*         7600:105       Introduction to Public Speaking*         or       or         7600:106       Effective Oral Communication*         3450/3470:xxx       Math Requirement*         (3450:100 does not count)       Natural Sciences* <i>(See General Education program under University College. For certification, at least 4 credits must be in Biology.</i> )         Humanities       (See General Education program under University College)         Area Studies/Cultural Diversity Requirement       States/to approach

**NOTE:** In addition to the preadmission coursework cited above, students are required to take three credits of coursework from the area of concentration at the 100/200 level that is not already used above. These three credits are required for admission to the College of Education.

Professional Education:

5050:210	Characteristics of Learners	3
5050:211	Teaching and Learning Strategies	3
5050:310	Instructional Design	3
5050:311	Instructional Resources	3
5050:320	Diversity in Learners	3
5050:330	Classroom Management	3
5050:410	Professional Issues in Education	3
5200:215	The Child, the Family, and the School	2
5200:220	Visual Arts Culture in the Elementary School	1
5200:245	Understanding Language Literacy	3
5200:250	Developing the Processes of Investigation	3
5200:320	Visual Arts Application in the Elementary School	3
5200:333	Science for Elementary Grades	3
5200:338	Teaching of Social Studies	3
5200:342	Teaching of Elementary School Mathematics	4
5200:345	Teaching Language Literacy	4
5200:325	Elementary Field Experience	2
5200:365	Music for Elementary Teachers	3
5200:403	Student Teaching Seminar	1
5200:445	Evaluating Language Literacy	3
5200:450	Integrated Curriculum Application in the Elementary School	3
5200:495	Student Teaching	5
5200:496	Student Teaching	5
5550:334	Games and Rhythms	3
5570:101	Personal Health	2

Area of Concentration — 20 credits

A minimum of 20 credits in an area of concentration is required. Some general education courses fulfill partial requirements in selected concentrations. Specific requirements for each area are available in the Office of Elementary Education, Zook Hall. Areas of concentration have been approved in the following disciplines:

Communication	Mathematics
Economics	Psychology
English and Literature	Science
Foreign Language	Sociology
Geography	The Family
History	

Minimum number of hours required for graduation and certification 137

# Kindergarten – Elementary (K-8)

The student in the elementary program or holding an elementary certificate may receive the Kindergarten-Elementary certificate by taking the following courses in sequential order:

•	Required:		Credits
	7400:265	Child Development	з
	5200:330	Kindergarten Policies, Issues, and Trends	4
	5200:331	Kindergarten Methods and Materials	4

### Pre-Kindergarten Validation

The student in the elementary program may also receive validation in pre kindergarten by taking the following courses and completing the NTE Early Childhood test:

5200:310	Introduction to Early Childhood Education	3
5200:360	Teaching in the Nursery Center	2
5200:370	Teaching in Nursery Center Laboratory	2
7400:265	Child Development	3
7400:270	Theory and Guidance of Play	3
7400:280	Creative Activities for Pre-Kindergarten Children	4
7400:460	Organization and Supervision of Child Care Centers	2

# **Certification for Teaching Foreign Languages K-12**

Ohio offers K-12 certification for the teaching of modern languages. At The University of Akron, students seeking K-12 certification must complete requirements specified under secondary fields with the exception of 5300:311 Instructional Techniques and 5300:375 Field Experience. Instead of those courses, foreign language education students must take 5200:321 Instructional Techniques: Modern Languages - K-8 and 5300:317 Instructional Techniques: Modern Languages - Secondary. Students will enroll in 5300:495 Student Teaching Foreign Languages K-12 for 11 credits.

Students who seek a dual certification as an elementary teacher and as an elementary teacher as as a K-12 foreign language teacher must fulfill requirements in both programs.

# 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 may become validated in TESOL at either the undergraduate or graduate levels in conjunction with certification in elementary education or secondary education.

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:

3300:270	Introduction to Linguistics	3
3300:489	or Introduction to Bilingual Linguistics	3
3300:473	Seminar in Teaching ESL: Theory and Method	3
3300:489	Seminar in English: Sociolinguistics or	3
3300:489	Seminar in English: Grammatical Structures of Modern English	3
5630:481	Multicultural Education in the United States	3
5630:487	Techniques for Teaching English as a Second Language in the Bilingual Classroom	4
5630:485	Teaching Reading and Language Arts to Bilingual Students	4
	Field Experience in Teaching English as a Second Language	2

### Certification of Non-Professional Degree Holders for Elementary School

To qualify for a provisional Elementary Certificate, the holder of a baccalaureate degree in fields other than education should complete the course work equivalent to that required for a major in elementary education.

- Pre-professional education and General Education:
- A student may be required to take courses from the pre-professional education and General Education sections if previous transcripts reveal an insufficient background in those areas or in courses listed under elementary education.

Appropriate area of concentration

<sup>\*</sup> Required for admission to the College of Education. (Total of 32 credits)

٠	Professional e	ducation:	Credits
	5050:210	Characteristics of Learners	3
	5050:211	Teaching and Learning Strategies	3
	5050:310	Instructional Design	3
	5050:311	Instructional Resources	3
	5050:320	Diversity in Learners	3
	5050:330	Classroom Management	3
	5050:410	Professional Issues in Education	3
٠	Elementary E	ducation:	
	5200:215	The Child, The Family, and The School	2
	5200:220	Visual Arts Culture in the Elementary School	1
	5200:245	Understanding Language Literacy	3
	5200:250	Developing the Processes of Investigation	3
	5200:320	Visual Arts Application in the Elementary School	3
	5200:325	Elementary Field Experience	2
	5200:333	Science for Elementary Grades	3
	5200:338	Teaching of Social Studies	3
	5200:342	Teaching of Elementary School Mathematics	4
	5200:345	Teaching Language Literacy	4
	5200:365	Music for Elementary Teachers	3
	5200:403	Student Teaching Seminar	1
	5200:445	Evaluating Language Literacy	3
	5200:450	Integrated Curriculum Application in the Elementary School	3
	5200:495	Student Teaching	5
	5200:496	Student Teaching	5
	5500:334	Games and Rhythms	2
	5570:101	Personal Health	2

If certification for teaching kindergarten is desired, the following courses must be scheduled:

7400:265	Child Development	3
5200:330	Kindergarten Policies, Issues and Trends	4
5200:331	Kindergarten Methods and Materials	4

# Pre-Kindergarten Certification-Birth to Kindergarten

• General Education — 42 credits

Destantional advantion:

Professional Education

	5200:200	Pre-K Participation	1
	5200:300	Pre-K Participation	1
	5200:310	Introduction to Early Childhood Education	3
	5200:403	Student Teaching Seminar	1
	5200:495	Student Teaching	8
	7400:265	Child Development	3
	7400:280	Creative Activities for Pre-K Children	4
	7400:303	Children as Consumers	3
	7400:448	Before/After School Child Care	2
	7400:360	Parent-Child Relations	3
	7400:401	Family Life Styles: Economically Deprived Home	2
	7400:460	Organization and Supervision of Child Care Centers	3
•	Curriculum		

Curriculum

2200:245	Infant-Toddler Day Care
2200:250	Observation and Recording Child Behavior
5200:315	Issues and Trends in Early Childhood Education
5200:355	Language, and Literature for Early Childhood Education
5200:360	Teaching in the Nursery Center
5200:370	Nursery Center Lab
5550:336	Motor Learning
5610:450	Special Education Programming: Early Childhood
7400:132	Early Childhood Nutrition
7400:270	Theory and Guidance of Play

· Area of Concentration - minimum of 20 credits from the following:

Communications	Mathematics
Economics	Psychology
English and Literature	Science
Foreign Languages	Sociology
Geography	The Family
History	

### **Certification for Teaching Music in Elementary Schools**

Any student who completes a regular four-year program which qualifies for a Four-Year Provisional Elementary Certificate# may have that certificate validated for teaching music in the elementary school by completing the following courses:

		Credits
7500:497	Independent Study (Music Student Teaching)	2
7500:107	Class Voice	2
	or	
7520:124	Applied Voice	2
7500:151,2	Music Theory I and II	6
7500:154,5	Music Literature I and II	4
7500:261	Keyboard Harmony I	2
7500:340	General Music	3
7500:341	Wind-Percussion Instrument Techniques	3
7500:356	Music: Teaching Handicapped	2
	or	
7500:110	Class Guitar	2
7500:497	Independent Study	2
7510:xxx	Music Organization	2

# **Dual Certification Program Elementary and Secondary**

This curriculum prepares teachers for both elementary and secondary school. A student completing this curriculum will receive the Four-Year Provisional Certificate to teach in the secondary school and a certificate which will qualify the holder to teach in grades one through eight in the elementary school.

A student in this program must meet the requirements for elementary education; must complete 5300:310, Principles of Secondary Education, and 5300:311, Instructional Techniques in Secondary Schools; and must meet the requirements in the field or fields of teaching at the secondary level in which certification is requested. For advisement in this area, contact the head of the department.

A combination elementary and special education program is offered; **see 5610**: **Special Education**.

**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.

# **5300: Secondary Education**

The secondary program is for the student preparing to teach in middle, junior and senior high schools. A list of the specific requirements for the various teaching fields will be provided for the student by the college adviser or by the head of the Department of Curricular and Instructional Studies. For information regarding employment in non-school settings which capitalize on a teacher's skills, see the department head.

A student must have completed at least eight semester credits in the teaching field with a 2.5 grade-point average, both overall and in the teaching field(s), before transferring to the upper college and must have at least a "C" grade in English composition or its equivalent. A student must have a minimum of a 2.5 grade-point average in the declared teaching fields and education courses to be eligible for placement for student teaching.

The general requirements for a major in secondary education are as follows:

General Education — 42 credits

3

3

3

3 2

2

2 3 2

3300:111	English Composition I*	(Minimum grade of C or better)	4
3300:112	English Composition II*	(Minimum grade of C or better)	3
5540:xxx	Physical Education*		1
7600:105	Introduction to Public Spea or	king*	3
7600:106	Effective Oral Communica	tion*	з
3450/3470:xxx	Math Requirement* (345	0:100 does not count)	3
		s required for admission to College of Education) gram under University College.)	8
		required for admission to College of Education) gram under University College.)	6
	Humanities		10
	(See General Education pro	gram under University College)	
	Area Studies/Cultural Diver	sity Requirement	4
	(See General Education pro	gram under University College)	

NOTE: In addition to the preadmission coursework cited above, students are required to take eight credits of coursework in their teaching fields<sup>•</sup>. This does not include coursework already used above. A 2.50 GPA in all completed teaching field coursework is required.

\* Required for admission to the College of Education (Total of 30 credits).

# The elementary education major is responsible for completing 300 field and clinical hours in addition to student teaching. It will be the responsibility of the department to assign these credits to the appropriate courses.

<sup>\*</sup> Required for admission to the College of Education (Total of 30 credits).

· Professional courses (courses to be taken in an approved sequence): Credits

5050:210	Characteristics of Learners	3
5050:211	Teaching and Learning Strategies	3
5050:310	Instructional Design	3
5050:311	Instructional Resources	3
5050:320	Diversity of Learners	3
5050:330	Classroom Management	3
5050:410	Professional Issues in Education	3
5300:311	Instructional Techniques in Secondary Education@	5
5300:375	Exploratory Experience in Secondary Education@	1
5300:445	Computer Applications for Secondary Teachers	2
5300:495	Student Teaching	8
5300:496	Student Teaching Colloquium	1

Courses in teaching field(s) and electives as determined by the department.

# **Teaching Fields**

Each student preparing for secondary school teaching must have at least two defined teaching fields. However, if a student chooses one of the comprehensive or special teaching fields, as listed below, preparation in a second field will not be required.

### Minimum Number of Credits Required for Approval in Various Teaching Fields

#### **Comprehensive Subjects by Field**

comprehensive Subjects by neid	
Business Education (without shorthand)	65-67
Communications	62
Marketing Education	60-64
Consumer Homemaking and Multi-Area Vocational	55
Science Biology and Chemistry	80-85
Science Biology and Earth Science	75-80
Science Biology and Physics	79-84
Science Chemistry and Earth Science	75-79
Science Chemistry and Physics	75-79
Science Earth Science and Physics	66-70
Social Studies	60
Vocational Business Education	70-74
Vocational Consumer Home Economics <sup>†</sup>	56
Vocational Consumer Home Economics w/ Multi-Area Job Training <sup>‡‡</sup>	63
Special Fields K-12	
Computer Science	44
Dance	45
Foreign Language	45
(Note: Please see Certification for Teaching Foreign Languages -K-12 on page 111)	
Health – as determined by Department of Physical and Health Education	62-65
Music – as determined by Department of Music	
Physical Education – as determined by Department of	
Physical and Health Education	59
Speech and Hearing Therapy as determined by	
School of Speech-Language Pathology and Audiology	
Graduate Special Education - as determined by Department of	
Counseling and Special Education	57-71
Visual Arts	58
Specific Subjects by Field	
Bookkeeping Basic Business	30-32
Drama/Theatre	30
Economics	30
English	38
Foreign Languages	45
Geography	30
Health Education (7-12)	59-61
History	32
Home Economics	45
Latin	30
Mathematics	32-33
Physical Education (7-12)	51
Political Science	30
Psychology/Sociology	38
Speech/Communications	30
Visual Art	35

# 5400: Technical Education

The undergraduate program in technical education is designed to prepare instructors and other personnel for post-secondary educational institutions, industry and public and private agencies engaged in the education and training of technicians. The program is divided into the following major classifications: business technologies, engineering technologies, health technologies, natural science technologies and public service technologies. The baccalaureate program is intended to produce instructors primarily for teaching subjects within a technical specialty. Graduates of this program are awarded the degree of Bachelor of Science in Technical Education.

A student may elect other career areas when the courses are available and the adviser approves.

The technical education program includes work in four areas: General Studies; the technical specialty; professional education; and occupational experience. Specific course requirements may be secured from the Department of Secondary Education or from the advisers in technical education.

Technical Education students are exempt from the PPST, the speech/hearing test, and the letters of recommendation relative to admission criteria

# 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 courses (5400), all professional education courses and a 2.50 average in all technical courses directly related to the student's teaching field.

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.

# 5550: Physical Education 5560: Outdoor Education 5570: Health Education

Undergraduate programs in the Department of Physical and Health Education lead to state certification in health and physical education (7-12 and K-12). There is also a school nurse certification 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 NATA. A non-NATA program is also available for those students considering physical therapy 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.

General Education Courses for all Department of Physical and Health Education majors (43-45 credits)

Credits

		Creans
3100:208	Human Anatomy and Physiology* and	4
3100:209	Human Anatomy and Physiology*	4
XXXX:XXX	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:XXX	Humanities Coursework	6
	(See General Education requirements under University College)	
XXXX:XXX	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
7600:105	Introduction to Public Speaking*	3
	OF	
7600:106	Effective Oral Communication*	3

Required for admission to College of Education

# These courses are not required of Athletic Training for Sports Medicine (NATA/non-NATA).

<sup>@</sup> Variations will occur in K-12 certification fields. See Program Plan sheets for specific courses.

<sup>†</sup> Home Economics and Family Ecology majors.

<sup>##</sup> Options are also available in Job Training for the fields of Food Service, Fabrics, Child Care, and Health and Community.

Mathematics (choose one option)\*

		concere one option,	
	Option 1 3450:113 3450:114 3450:138	Combinatorics and Probability Matrices Mathematics of Finance	Credits 1 1 1
	Option 2 3470:260	Basic Statistics	3
	Option 3 3450:138 3470:261	Mathematics of Finance Introduction to Statistics	1 2
	Option 4 3450:145	College Algebra	4
•		ducation Courses for all Department of Physical Education majors <sup>#</sup> (33 credits)	ition and
	5050:210	Characteristics of Learners <sup>1</sup> and	3
	5050:211	Teaching and Learning Strategies <sup>1</sup>	3
	5050:310	Instructional Design <sup>2</sup> and	3
	5050:311	Instructional Resources <sup>2</sup>	3

 5050:320
 Diversity in Learners
 3

 5050:330
 Classroom Management
 3

 5050:410
 Professional Issues in Education
 3

 The following should be taken at the same time but only after completion of all General Studies,

Professional Education, and Department requirements are completed.

5550:494	Student Teaching Colloquium for Physical and Health Education	2
5550:495	Student Teaching for Physical and Health Education	10

# K-12 Physical Education Courses

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	Fitness and Contemporary Activities	2
5550:308	Dance and Tumbling	2
Area 2 Choose	at least four credits from the following:	
5550:204	Soccer and Swimming	2
5550:205	Basketball and Track/Field	2
5550:306	Badminton and Golf	2
5550:307	Tennis and Volleyball	2
Area 3 (all 5550	): and 5560 courses in this Area required for admission to College of Ei	ducation)
3100:208	Human Anatomy and Physiology	4
	and	
3100:209	Human Anatomy and Physiology	4
5550:130	Physical Education Activities for Elementary School 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 Elementary School Children	3
5550:345	Instructional Techniques: Elementary 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 558	50 courses are offered but <b>not required</b> for certification	

### Secondary School (7-12) Certification

Courses required for secondary certification include all of the requirements for Provisional Special (K-12) Certification (listed previously) except: 5550:130, 335, and 345.

# 5570: Health Education

# 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	Chemical Dependency I	3
3100:130	Principles of Microbiology	3
3100:208	Human Anatomy and Physiology	4
	and	
3100:209	Human Anatomy and Physiology	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
5570:320	Community Health	2
5570:322	Current Topics in Health Education	3
5570:323	Methods and Materials of Teaching 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
5570:421	Comprehensive School Health	4
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 d	courses are offered but not required for certification	

# Secondary Health Education (7-12)

Courses required for certification in secondary school health education include all of the requirements for Provisional Special (K-12) Certification in Health Education (listed previously) except: 5570:460 and 497.

# **School Nurse Certification**

The provisional school nurse's certificate 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:

- R.N. License
- Acceptance into the College of Education
- Coursework well distributed over the following areas:
  - Community Health
- Family Counseling
- --- Mental and Emotional Health, Current Topics in Health Education
- Methods of Teaching/Instructional Design
- Learner and Learning processes
- Evaluation and Measurement of Learning
- Principles, Organization and Administration of School Health Services
- A supervised school nurse experience in an approved school setting to approximate the school day for a period not less than one full semester.

To satisfy the above requirements, an applicant must complete at least the following courses or their equivalents:

5570:320 5570:323 5570:421	Community Health Methods and Materials of Teaching Health Education Comprehensive School Health	2 3 4
At least (8) eight o	predits from the following:	
2250:240	Chemical Dependency	3
7400:201	Courtship, Marriage and Family Relationships	3
5570:101	Personai Health	2
5570:202	Stress, Life Style and Your Health	3
5570:263	Measurement and Evaluation in Physical Education	3
5570:322	Current Topics in Health Education	3
5570:400	Environmental Health	3
5550:490/590	Workshops in Current Health Education Topics	2-4
	(Maximum 4 credits)	

Required for admission to College of Education.

<sup>#</sup> These courses are not required of Athletic Training for Sports Medicine (NATA/non-NATA)

<sup>1</sup> Take these courses together

<sup>2</sup> Take these courses together

		Credits
And one of th	e following:	
5550:495	Student Teaching for Health Education or	10
5550:460	Practicum in Physical Education or	6
	Equivalent of two years experience as a school nurse	
TOTAL		23-27
	and the state of the	

Note: Students must take a minimum of six credits in the department (5550/5570). This does not include 5550:495 or 5550:460.

# Certification in Dance (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 (Enrollment in Dance Organization by audition only)	1
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: Advanced Intermediate Technique	5
	(Enrollment by audition only)	
7920:316	Choreography I	2
7920:317	Choreography II	2
7920:320	Dance Notation	2
7920:328	Modern Dance VII: Advanced Modern Dance A (Enroliment by audition only)	3
7920:351	Jazz Dance Styles (Enrollment by audition only)	2
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		
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:

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
5610:465	Neuromotor Aspects of Physical Disabilities	3
5610:467	Classroom Behavior Management of Exceptional Individuals	3

# Athletic Training for Sports Medicine@

# NATA Program

To be eligible to take the National Athletic Trainer's Association (NATA) certification test, the student must complete a course of study at The University of Akron and compile at least 1,500 hours of practical field and clinical experiences.

- See 5550: General Education requirements listed previously
- · Courses should be taken in the recommended sequence (see adviser):

0001363 31100	a be taken in the recommended sequence (see advise).		
2740:120	Medical Terminology	3	
3100:130	Principles of Microbiology	3	
3100:208, 209	Human Anatomy and Physiology	8	
3150:110, 111	Introduction to General, Organic and Biochemistry I, Lab	4	
3150:112, 113	Introduction to General, Organic and Biochemistry II, Lab	4	
3750:100	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	2	

@ Students interested in either program should contact the head athletic trainer.

		Credits
5550:211	First Aid and CPR	2
5550:240	Care and Prevention of Athletic Injuries	3
5550:245	Adapted Physical Education	3
5550:302	Physiology of Exercise	3
5550:395	Field Experience	3
5550:441	Advanced Athletic Injury Management	4
5550:442	Therapeutic Modalities and Equipment in Sports Medicine	3
5550:450	Organization and Administration of Physical Education,	
	Intramurals, and Athletics	3
5550:460	Practicum in Physical Education	3
5550:460	Practicum in Physical Education	4
5550:475	Seminar in Health and Physical Education	3
5550:480	Special Topics: Pharmacology for Sports	3
5550:497	Independent Study	2
5570:202	Stress, Life-Style, and Your Health	3
7400:133	Nutrition Fundamentals	3
7400:487	Sports Nutrition	3
	t (9) nine credits from the following electives. The elective approved by adviser.	tive cours-
2260:240	Chemical Dependency	3
3100:112	Principles of Biology	4
3100:461	Human Physiology	3
3100:462	Human Physiology	3
3100:465	Advanced Cardiovascular Physiology	3
3650:261	Physics for Life Sciences	4
3650:262	Physics for Life Sciences	4

Students not seeking teacher certification are exempt from the PPST for admission.

1-3

1-3

1-3

# Non-NATA Program

5550:xxx

5550:xxx

5570:xxx

The following are required in the recommended sequence (see adviser):

Sports Medicine Workshops

Physical Education Workshops

Health Education Workshops

The following are required in the recommended sequence (see adviser).			
2740:120	Medical Terminology	3	
3100:130	Principles of Microbiology	3	
3100:208, 209	Human Anatomy and Physiology	8	
3150:110, 111	Introduction to General, Organic and Biochemistry I, Lab	4	
3150:112, 113	Introduction to General, Organic and Biochemistry II, Lab	4	
3750:100	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	2	
5550:211	First Aid and CPR	2	
5550:240	Care and Prevention of Athletic Injuries	3	
5550:245	Adapted Physical Education	3	
5550:302	Physiology of Exercise	3	
5550:395	Field Experience	3	
5550:441	Advanced Athletic Injury Management	4	
5550:442	Therapeutic Modalities and Equipment in Sports Medicine	3	
5550:450	Organization and Administration of Physical Education,		
	Intramurals, and Athletics	3	
5550:475	Seminar in Health and Physical Education	3	
5550:480	Special Topics: Pharmacology for Sports	3	
5570:202	Stress, Life-Style, and Your Health	3	
7400:133	Nutrition Fundamentals	3	
7400:487	Sports Nutrition	3	
Salact 21.22	prodite from the following electives. The electives must	firet k	

 Select 21-22 credits from the following electives. The electives must first be approved by adviser.

2260:240	Chemical Dependency	3
3100:111	Principles of Biology	4
3100:112	Principles of Biology	4
3100:461	Human Physiology	3
3100:462	Human Physiology	3
3100:465	Advanced Cardiovascular Physiology	3
3150:132	Principles of Chemistry I	4
3470:2xx	Statistics	2-3
3650:261	Physics for Life Sciences	4
3650:262	Physics for Life Sciences	4
5550:460	Practicum in Physical Education	3-6
5550:497	Independent Study	1-2
5550:xxx	Sports Medicine Workshops	1-3
5550:xxx	Physical Education Workshops	1-3
5570:xxx	Health Education Workshops	1-3

**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.

Cradita

# **5610: Special Education**

The Special Education program involves in-depth preparation in one of the certification areas: Developmentally Handicapped, Specific Learning Disabled, Severe Behavior Handicapped, or Multihandicapped. The program incorporates courses from Elementary Education, Health and Physical Education, Communicative Disorders, and the College of Education Core, which emphasizes the theme "Teacher as Decision Maker." All special education programs lead to independent certification K-12.

# **Developmentally Handicapped**

•	General Educ	ation — 45 credits:	Credits
	English Composi 3300:111,112	tion component: English Composition I,II*	7
	Mathematics cor 3450:145	nponent: College Algebra*	4
	Natural Science of	component:	
	3100:208, 209	Human Anatomy and Physiology*	8
	3370:121-138	Concepts in Geology*	1
	Oral Communica	tion component:	
	7600:105	Introduction to Public Speaking*	3
	7000 100	or Effective Ovel Communication 1	2
	7600:106	Effective Oral Communication*	3
	Social Sciences of 3850:100	omponent: Introduction to Sociology*	4
	3650.100	and	-
		Any other Social Science option, see General Education under University College for options	3
	Humanities com	ponent:	
	,	See General Education under University College for options	10
	Area Studies/Cult	tural Diversity component:	
		See General Education under University College for options	4
	Physical Education	on component	
		See General Education under University College for options	1
•	Professional E	Education — 34 credits:	
	5050:210	Characteristics of Learners	3
	5050:211	Teaching/Learning Strategies	3
	5050:310	Instructional Design	3
	5050:311	Instructional Resources	3
	5050:320	Diversity of Learners	3
	5050:330	Classroom Management	3
	5050:410	Professional Issues in Education	3
	5610:403	Student Teaching Colloquium: Special Education	1
	5610:480	Student Teaching: Developmentally Handicapped	12
•	Curriculum Co	ontent — 25 credits:	
	5200:220	Visual Arts Culture	1
	5200:245	Understanding Language Literacy	3
	5200:336	Teaching of Elementary School Mathematics	3
	5200:345	Teaching Language Literacy	4
	5550:211	First Aid and CPR Communication and Consultation with Parents	2 3
	5610:459	and Professionals	3
	5610:461	Technology and Materials in Special Education	3
	5610:463	Assessment in Special Education	3
	7700:430	Aspects of Normal Language Development	3
•	Specialization	- 22 credits:	
	5610:440	Developmental Characteristics of Exceptional Individuals	3
	5610:441	Developmental Characteristics of the Mentally Retarded	4
	5610:450	Special Education Programming: Early Childhood	3
	5610:451	Special Education Programming: Elementary Level	3
	5610:452	Special Education Programming: Secondary/Vocational	3
	5610:467	Classroom Behavior Management	3
	5610:470	Clinical Practicum in Special Education	3
•	Choose four (	credits of electives in consultation with adviser —	4 credits
_			
S	pecific Le	earning Disabled	
•	General Educ	ation — 45 credits:	
	English Composi		
	3300:111,112	English Composition I,II*	7
	Mathematics cor		
	3450:145	College Algebra*	4

	Natural Science of		Creaits
	3100:208, 209	Human Anatomy and Physiology*	8
	3370:121-138	Concepts in Geology*	1
	Oral Communica	tion component:	
			~
	7600:105	Introduction to Public Speaking*	3
		or	
	7600:106	Effective Oral Communication*	3
	Social Sciences c	omoonent.	
	3850:100	•	4
	3850:100	Introduction to Sociology*	4
		and	
		Any other Social Science option, see General Education	3
		under University College for options	
	Liver alties as no		
	Humanities comp		
		See General Education under University College for options	10
	Area Studies/Cuit	tural Diversity component:	
		See General Education under University College for options	4
	Physical Education		
		See General Education under University College for options	1
	Profossional P	Education — 34 credits:	
	FIDIessional		
	5050:210	Characteristics of Learners	3
			3
	5050:211	Teaching/Learning Strategies	
	5050:310	Instructional Design	3
	5050:311	Instructional Resources	3
	5050:320	Diversity of Learners	3
	5050:330	Classroom Management	3
		-	
	5050:410	Professional Issues in Education	3
	5610:403	Student Teaching Colloquium: Special Education	1
	5610:481	Student Teaching: Specific Learning Disorders	12
	0 1 1 0		
	Curriculum Co	ontent — 25 credits:	
	E200-220	Visual Arts Culture	1
	5200:220		
	5200:245	Understanding Language Literacy	3
	5200:336	Teaching of Elementary School Mathematics	3
	5200:345	Teaching Language Literacy	4
	5550:211	First Aid and CPR	2
		Communication and Consultation with Parents	3
	5610:459		3
		and Professionals	
	5610:461	Technology and Materials in Special Education	3
	5610:463	Assessment in Special Education	3
	7700:430	Aspects of Normal Language Development	3
			-
•	Specialization	- 21 credits:	
	5010 440	Developmental Observatoriation of Example and Individuals	2
	5610:440	Developmental Characteristics of Exceptional Individuals	3
	5610:443	Developmental Characteristics of the Specific Learning Disabled	3
	5610:450	Special Education Programming: Early Childhood	3
	5610:451	Special Education Programming: Elementary Level	3
	5610:452	Special Education Programming: Secondary/Vocational	3
	5610:467	Classroom Behavior Management	3
	5610:470	Clinical Practicum in Special Education	3
_	Change five	radite of electives is consultation with advisor	dite
	Choose live c	redits of electives in consultation with adviser — 5 crea	lits
ς	ovora Ral	havior Handicapped	
-	evere bei	navior nandicapped	
•	General Educ	ation — 45 credits:	
	001101012000		
	English Composi	tion component:	
	3300:111,112	English Composition I,II*	7
	Mathematics cor		
	3450:145	College Algebra*	4
	Natural Science	component:	
	3100:208, 209	Human Anatomy and Physiology*	8
			-
	3370:121-138	Concepts in Geology*	1
	Oral Communica	tion component:	
	7600:105	Introduction to Public Speaking*	3
		~	

General Education — 45 credits:				
English Composit 3300:111,112	ion component: English Composition I,II*	7		
Mathematics con 3450:145	npo∩ent: College Algebra*	4		
Natural Science c 3100:208, 209 3370:121-138	Human Anatomy and Physiology*	8 1		
Oral Communicat 7600:105	ion component: Introduction to Public Speaking* or	3		
7600:106	Effective Oral Communication*	3		
Social Sciences c	omponent:			
3850:100	Introduction to Sociology* and	4		
	Any other Social Science option, see General Education under University College for options			
Humanities comp	ponent:			
	See General Education under University College for options	10		
Area Studies/Cult	ural Diversity component:			
	See General Education under University College for options	4		
Physical Education component:				
	See General Education under University College for options 1			

\*Required for admission to the College of Education. Total of 30 credits.

\*Required for admission to the College of Education. Total of 30 credits.

•	Professional E	ducation — 34 credits:	Credits
	5050:210	Characteristics of Learners	3
	5050:211	Teaching/Learning Strategies	3
	5050:310	Instructional Design	3
	5050:311	Instructional Resources	3
	5050:320	Diversity of Learners	3
	5050:330	Classroom Management	3
	5050:410	Professional Issues in Education	3
	5610:403	Student Teaching Colloquium: Special Education	2
	5610:483	Student Teaching: Severe Behavior Handicapped	12
			12
•		ntent — 25 credits:	
	5200:220	Visual Arts Culture	1
	5200:245	Understanding Language Literacy	3
	5200:336	Teaching of Elementary School Mathematics	3
	5200:345	Teaching Language Literacy	4
	5550:211	First Aid and CPR	2
	5610:459	Communication and Consultation with Parents	, 3
		and Professionals	
	5610:461	Technology and Materials in Special Education	3
	5610:463	Assessment in Special Education	3
	7700:430	Aspects of Normal Language Development	3
•	Specialization	- 24 credits:	
	5610:440	Developmental Characteristics of Exceptional Individuals	3
	5610:446	Developmental Characteristics of Severe Behavior Handicapped	3
	5610:450	Special Education Programming: Early Childhood	3
	5610:451	Special Education Programming: Elementary Level	3
	5610:452	Special Education Programming: Secondary/Vocational	3
	5610:456	Special Education Programming: Severe Behavior Handicapped	3
	5610:467	Management Strategies in Special Education	3
	5610:470	Clinical Practicum in Special Education	3
			-
•	Electives: Sele with adviser:	ect 2-4 credits of electives from the following list in	consultation
		All and Device and and	
	3750:420	Abnormal Psychology	4
	3850:430	Juvenile Delinquency	3 2
	7400:401	Family Life Patterns in Economically Deprived Home Culture, Ethnicity, and Family	2
	7500:446	Culture, Eurnicity, and Farmy	5
N	lultihandi	capped	
•	General Educa	ation — 45 credits:	
	English Composit	ion component:	
	English Composit 3300:111,112	English Composition I,II*	7
	Mathematics con	ponent:	
	3450:145	College Algebra*	4
	Natural Science c	omponent:	
	3100:208, 209	Human Anatomy and Physiology*	8
	3370:121-138	Concepts in Geology*	1
	Oral Communicat		
	7600:105	Introduction to Public Speaking*	3
		or	
	7600:106	Effective Oral Communication*	3
	Social Sciences c	omponent:	
	3850:100	Introduction to Sociology* and	4
		Any other Social Science option, see General Education	
		under University College for options	
	Humanities comp		
		See General Education under University College for options	10
	Area Studies/Cult	ural Diversity component:	
		See General Education under University College for options	4
	Physical Educatio		
		See General Education under University College for options	1
•	Professional E	ducation — 34 credits:	
	5050:210	Characteristics of Learners	3
	5050:211	Teaching/Learning Strategies	3
	5050:310	Instructional Design	3
	5050:311	Instructional Resources	3
	5050:320	Diversity of Learners	3
	5050:330	Classroom Management	3
	5050:410	Professional Issues in Education	3
	5610:403	Student Teaching Colloquium: Special Education	1
	5610:484	Student Teaching: Multihandicapped	12
-		ontent — 29 credits:	
•	Cumculum Co		
	5200:245	Understanding Language Literacy	3

		0
		Credits
5550:211	First Aid and CPR	2
5610:459	Communication and Consultation with Parents and Professionals	3
5610:461	Technology and Materials in Special Education	3
5610:463	Assessment in Special Education	3
5610:467	Management Strategies in Special Education	3
5610:470	Clinical Practicum in Special Education	3
7700:101	Beginning Sign Language I	3
7700:430	Aspects of Normal Language Development	3
7700:440	Augmentative Communication	3
<ul> <li>Specializati</li> </ul>	on — 25 credits:	
5610:440	Developmental Characteristics of Exceptional Individuals	3
5610:441	Developmental Characteristics of the Mentally Retarded	4
5610:450	Special Education Programming: Early Childhood	3
5610:451	Special Education Program: Elementary	3
5610:452	Special Educational Programming: Secondary/Vocational	3
5610:453	Special Education Programming: Severely Handicapped I	3
5610:454	Special Education Programming: Severely Handicapped II	3
5610:465	Neuromotor Aspects of Physical Disabilities	3

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; phone (330) 972-5188.

# 5630: 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: Introduction to Bilingual Linguistics	3
5630:482	Characteristics of Culturally Different Youth	3
5630:484	Principles of Bilingual Multicultural Education	3
5630:485	Teaching Reading and Language Arts to Bilingual Students	4
	or	
5630:486	Teaching Mathematics, Social Studies and Science to Bilingual Students	4
5630:487	Techniques for Teaching English as a Second	
	Language in the Bilingual Classroom	4
	Field experience of bilingual classrooms/settings	3

# Combination Special Education – Elementary Education Program

The addition of 50-68 special education credits, including student teaching, to the standard elementary education degree program will provide the student with certification in the areas of teaching the developmentally handicapped, specific learning disabled, orthopedically handicapped, severe behavior handicapped or multi-handicapped. Selection of this option will require an extended program or post-baccalaureate study.

### Special Education as a Secondary Teaching Field

The addition of 57-71 special education credits, including student teaching, to the professional education courses required of secondary teachers may comprise a second teaching field in developmentally handicapped, specific learning disabled, orthopedically handicapped, severe behavior handicapped or multihandicapped.

Specific details for the above programs with elementary or secondary can be obtained from the Department of Counseling and Special Education.

### Speech and Hearing Therapy

Certification in the area of speech and hearing therapy is available to students only as part of a master's degree. Specific program details can be obtained from the Department of Counseling and Special Education and/or the Department of Communicative Disorders.

# College of Business Administration

Stephen F. Hallam, Ph.D., *Dean* James E. Inman, L.L.M., *Associate Dean* James R. Emore, D.B.A., *Assistant Dean, Undergraduate Programs* J. Daniel Williams, D.B.A., *Assistant Dean, Graduate 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:
  - 3450:289A Math for Business I (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.

# 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 must meet the same standards as University of Akron students. Students considering transfer should contact the University Office of Admissions. While transfer grades are part of the record of grades received at The University of Akron, students who need to petition for admission will also be evaluated individually on the multiple factors discussed earlier.

# 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.

Transfer 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/Finance, the Bachelor of Science in Business Administration/Marketing, the Bachelor of Science in Business Administration/Marketing, the Bachelor of Science in Business Administration/Internation/Advertising and the Bachelor of Science in Business Administration/International 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:

3250:200	Principles of Microeconomics	Creans 3
Either of the follo	wing two sequences of mathematics:*	
3450:145	College Algebra and	4
3450:215	Concepts of Calculus I**	4
	OR	
3450:289A	Math for Business 1 and	3
3450:289B	Math for Business II	3
One course chos	en from psychology or sociology.(3870:150 can substitute for 3850:100	3

Complete the following core program in business and economics:

### Accounting Maiors:

6200:255	Information Processing	3
	, and the second s	-
Non-Account	ing Majors:	
6200:250	Computer Applications for Business	3
All Majors:		
3250:201	Principles of Macroeconomics	3
6200:201	Accounting Concepts and Principles for Business	3
6200:202	Managerial Accounting	3
6400:220	Legal and Social Environment of Business <sup>#</sup>	3
	or	
6400:321,2	Business Law I, II <sup>#</sup>	6
6400:371	Business Finance	3
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
6500:490	Business Policy	3
6600:300	Marketing Principles	3
6800:305	International Business	3

# Minor Areas of Study

For an explanation of minor areas of study in the College of Business Administration, see **Section 5** of this Bulletin.

- During the phase-in of these courses, students who have completed 3450 145 College Algebra (4 credits) may complete 3450:289B Math for Business II to satisfy their requirement.
- \*\* Students contemplating and/or committed to going on to graduate school are recommended to complete 3450:215 Concepts of Calculus I.
- # Accountancy majors take 6400:321,2 or 6400:220. Other majors take 6400:220.

# **Certificate Programs**

The College of Business Administration offers certificate programs in Entrepreneurship, 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.

# **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

The accountancy curriculum in the George W. Daverio School of Accountancy is designed to prepare the student for professional service, including sitting for the uniform certified public accounting examination and other professional accounting examinations and to prepare the student to undertake advanced study. The functions of accountancy are essential to the decision-making process in commerce, industry and government. Because of the important role it plays in economic affairs, accountancy has attained the professional status of law and medicine.

The three major fields of employment for accountants are public, private and governmental accounting. Regardless of the areas of concentration, standards, ethics and the mastery of accounting concepts and procedures are essential. An accounting graduate who chooses public accounting may become a senior manager, principal or partner in public accounting firms. A student who chooses an accounting career in private industry may hold the position of accountant, cost accountant, senior accountant, budget director, internal auditor, treasurer or controller. Federal, state and local governments provide a wide variety of job opportunities at the professional level for well-educated accountants. There are exceptional opportunities for professional advancement regardless of the type of institution a graduate may choose.

To receive the Bachelor of Science in Accounting degree from the George W. Daverio School of Accountancy, a student must complete the college requirements and the following School requirements:

		Ciedits
3300:275	Specialized Writing: Business	3
6200:200	Professional Orientation	1
6200:301	Cost Accounting	3
6200:320	Accounting Cycles and Financial Statements	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	3
6200:460	Advanced Managerial Accounting	3
6200:xxx	Accounting Electives	_6
		34

Communication skills are vital, so a students majoring in Accounting is encouraged to participate in the Student Toastmasters organization.

# 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 and government. 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 per sonal 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.

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:

٠	Finance Core:		Credits
	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:

6400:403	Real Estate Finance	3
6400:415	Risk Management and Insurance	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	1-3
6400:495	Internship in Finance	1-3
6400:497	Honors Project	1-3
6200:301	Cost Accounting	3
6200:320	Accounting Cycles and Financial Statements	3
		12
Total credits r	equired:	25

# **Financial Services 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 Financial Services Program must complete at least five (5) courses (at least 15 credits) from those listed below:

Finance Core: 6400:290 6400:338 6400:343 6400:379 Select at least	Career Planning and Analysis Financial Markets and Institutions Investments Advanced Business Finance five courses (at least 15 credits) from the following:	Credits 1 3 3 <u>3</u> 10
6400:323	International Business Law	3
6400:325	Business and Society	3

		Credits
6400:332	Personal Financial Planning	3
6400:390	Real Estate Principles: A Value Approach	3
6400:401	Real Estate Investment	3
6400:402	Income Property Appraisal	3
6400:403	Real Estate Finance	3
6400:413	Property and Liability Insurance	3
6400:414	Life and Health Insurance	3
6400:415	Risk Management and Insurance	3
6400:424	Legal Concepts of Real Estate: A Managerial Approach	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
6400:485	Financial Strategy	3
6400:490	Selected Topics in Finance	1-3
6400:495	Internship in Finance	1-3
6400:497	Honors Project	1-3
6200:410	Taxation for the Non-Accountant	3
		15

Total credits required:

### Financial Services Program – Real Estate Concentration

A finance major completing the Financial Services Program with at least three of the five courses below (9 credits) will be awarded a Concentration in Real Estate:

25

6400:390	Real Estate Principles: A Value Approach*	3
6400:401	Real Estate Investment	3
6400:402	Income Property Appraisal*	3
6400:403	Real Estate Finance*	3
6400:424	Legal Concepts of Real Estate: A Managerial Approach*	3

# 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 and personnel in a variety of activities such as transportation, 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 six options listed below:

# **Human Resource Management Option**

**Option Requirements:** Credits 6500:200 Career Orientation: Management 1 6500:310 Business Information Systems 3 6500:341 Human Resource Management 3 6500:342 Labor Relations 3 6500:442 Compensation Management 3

 6400:390, 402, 403 and 424 are accepted by the Ohio Reral Estate Commission to satisfy course work necessary for the Ohio License requirement.

		Credits
6500:443	Advanced Human Resource Management	3
6500:471	Management Project	3
	or	
6500:473	Human Resource Management Project	3
6500:xxx	Management Elective	_3
		22

# Production/Operations Management Option

Option Requirements:

6500:200	Career Orientation: Management	1
6500:310	Business Information Systems	3
6500:333	Production and Operations Analysis	3
6500:341	Human Resource Management	3
6500:433	Business Operational Planning	3
6500:434	Production Planning and Control	3
6500:435	Quality Control	3
6500:471	Management Project	
6500:472	Production/Operations Management Project	3
6500:xxx	Management Elective	3 25

# **Materials Management Option**

**Option Requirements:** 

6500:200	Career Orientation: Management	1
6500:310	Business Information Systems	3
6500:333	Production and Operations Analysis	3
6500:341	Human Resource Management	3
6500:434	Production Planning and Control	3
6500:435	Quality Control	3
6500:471	Management Project	3
6600:370	Purchasing	3
6600:415	Business Logistics	3
6500:xxx	Management Elective	_3
		28

# Industrial Accounting Option

### **Option Requirements:**

6500:200	Career Orientation: Management	1
6500:310	Business Information Systems**	3
6500:333	Production and Operations Analysis	3
6500:341	Human Resource Management	3
6500:433	Business Operational Planning	3
6500:434	Production Planning and Control	3
6500:435	Quality Control	3
6500:471	Management Project	3
6200:301	Cost Accounting	3
6200:460	Advanced Managerial Accounting	_3
		28

# Quality Management Option (Inactive)

Option Requirements:

6500:200	Career Orientation: Management	
6500:310	Business Information Systems	
6500:333	Production and Operations Analysis	
6500:341	Human Resource Management	
6500:435	Quality Control	
6500:436	Advanced Quality Control Applications	
6500:438	Product Quality Design Techniques	
6500:471	Management Project	
6500:xxx	Management Elective	

# Information Systems Management Option

### Option Requirements:

6500:200	Career Orientation: Management	1
6500:310	Business Information Systems	3
6500:324	Data Management for Information Systems	3
6500:325	Analysis and Design of Information Systems	3
6500:333	Production and Operations Analysis	3
6500:341	Human Resource Management	3
6500:425	Decision Support and Expert Systems	3
6500:471	Management Project	3
6500:xxx	Management Elective	_3
		25

# 6600: Marketing

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 workforce 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 logistics, marketing communications and advertising, industrial purchasing, and marketing research. In addition, a significant proportion of marketing graduates launch and pursue very successful careers in professional sales and sales management within the business to business sector of the economy. Consequently, the Department of Marketing offers a specialized major in Sales Management in addition to its major in Marketing Management.

Our majors must meet all requirements of 1) the General Education program, 2) the Pre-Business program, 3) the College of Business Administration 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 26-credit-hour programs.

# Marketing Management Major

Required:		Credits
6600:293	Career Orientation	1
6600:460	Marketing Research	3
6600:490	Marketing Strategy	3
6600:493	Career Management	1
6600:xxx	Marketing Electives	18
		26

Marketing Electives may not include: 6600:491 Workshop in Marketing or 6600:499 Independent Study in Marketing

# Sales Management Major

Required. Complete all 17 credits:					
6600:293	Career Orientation	1			
6600:375	Professional Selling	3			
6600:460	Marketing Research	3			
6600:475	Business Negotiation	3			
6600:480	Sales Management	. 3			
6600:490	Marketing Strategy	3			
6600:493	Career Management	1			
Electives. Sele	Electives. Select any nine credits:				
6600:350	Advertising	3			
6600:355	Buyer Behavior	3			
6600:370	Purchasing	3			
6600:470	Business To Business Marketing	3			
6600:496	Internship in Marketing	3			
7600:235	Interpersonal Communications	3			
7600:252	Persuasion	_3			
		26			

Marketing Electives may not include: 6600:491 Workshop in Marketing or 6600:499 Independent Study in Marketing.

Credits

# Advertising

Advertising majors can obtain advertising positions with manufacturers, retailers, service and nonprofit organizations, advertising agencies, advertising specialty houses such as market research firms or with such advertising vehicles as newspapers, magazines, radio or television stations, direct mail operations, and telemarketing firms. While the focus of this program is on advertising (the indirect, impersonal communications carried by a mass medium and paid for by an identified sponsor), students will also explore other elements of the "promotional mix" including sales promotions, publicity, personal selling and visual merchandising. Some of the more frequently obtained advertising positions include media buyer, media planner or supervisor, advertising accounts manager, copywriter and creative director, sales representative, and a host of other entry level positions windin the promotions field. Advanced career paths in advertising and promotions would involve managerial responsibilities over the above mentioned positions.

An advertising major 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 Advertising Major Required Courses Program, and (5) the Advertising Major Elective Courses program.

To receive a Bachelor of Science in Business Administration/Advertising degree, the student must successfully complete the following 23 credit hour program:

•	Required:		Credits
	6600:293	Career Orientation	1
	6600:350	Advertising	3
	6600:355	Buyer Behavior	3
	6600:425	Advertising Research And Evaluation	3
	6600:430	Promotional Campaigns	3
	6600:490	Marketing Strategy	3
	6600:493	Career Management	1
		A line of the second seco	e

 Electives: Complete two courses - 6 credits. At least one of the two electives courses must be selected from 3300, 7100, and/or 7600 fields of study.

3300:390	Professional Writing	3
7100:180	Graphic Design	3
6600:375	Professional Selling	3
6600:385	International Marketing	3
6600:440	Product Planning	3
6600:450	Strategic Retail Management	3
6600:480	Sales Management	3
7600:280	Media Production Techniques	3
7600:282	Radio Production	3
7600:283	Television Production	3
7600:387	Radio And Television Writing	3
7600:486	Broadcasting Sales And Management	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 content 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 incorporates 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.

### **Required Categories:**

٠	<ul> <li>International Business Core:</li> </ul>		
	(Complete all courses - 8 credits)		Credit
	6600:293	Career Orientation	1
	6600:493	Career Management	1

	6800:405 6800:421	Multinational Corporations International Business Practices	3 3	8
•		Business Courses: ourses — 6 credits)		
	6400:323	International Business Law	3	
	6400:481	International Business Finance	3	
	6500:457	International Management	3	
	6600:385	International Marketing	3	6
•	International (	Geography Core:		
		ourse — 3 credits)		
	3350:320	Economic Geography	3	
	3350:353	Latin America	3	
	3350:356	Europe	3 3	
	3350:358	Russia and Associated States Asia	3	
	3350:363 3350:363	Africa South of the Sahara	3	3
	Subtotal:	Allica douti of the denora	0	17
				.,
G	lobal Interdise	ciplinary Option:		
		courses — 9 credits)		
	3250:450	Comparative Economic Systems	3	
	3250:460	Economic Development & Planning For Underdeveloped Nations	3 3	
	3250:461	Principles of International Economics	3 3	
	3350:450	Development Planning in the Third World	4	
	3700:300 3700:310	Comparative Politics International Politics And Institutions	4	
	3700:310	Western European Politics	3	
	3700:321	Politics of Post-Communist States	3	
	3700:323	Politics of China and Japan	3	
	3700:312	The Politics Of International Trade And Money	3	
	3700:326	Politics Of Development Nations	3	
	3870:270	Cultures of the World	3	_9
	Total with Inter	disciplinary Option:		26
E	oroign I angus	age Ontion		
	oreign Langua	age Option. 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	
	3550:xxx	Italian Language		
	3550:101	Beginning Italian I	4	
	3550:102	Beginning Italian I	4	
	3550:201	Intermediate Italian I	3	
	3570:xxx	Russian Language	4	
	3570:101 3570:101	Beginning Russian I Beginning Russian II	4	
	3570:101	Intermediate Russian I	3	
	3580:xxx	Spanish Language	5	
	3580:101	Beginning Spanish I	4	
	3580:102	Beginning Spanish I	4	
	3580:201	Intermediate Spanish I	3	_11
	Total with Fore	ign Language Option:		28

# College of Fine and Applied Arts

Linda Moore, Ph.D., *Dean* John Bee, Ph.D., *Interim Associate Dean* William Seaton, Ph.D., *Associate Dean* 

# **OBJECTIVES**

The purpose of the College of Fine and Applied Arts is to further the objectives of the University by providing a quality program of undergraduate and graduate education with artistic, technological, clinical performance, research and studio experience in the fine and applied arts, as well as:

- To maintain curricula for the preparation of a student majoring in these areas.
- To prepare a student for graduate study and career opportunities on a professional competence level.
- To provide instruction designed to meet specific curricular needs of all the colleges of the University.
- To serve the elective interests of the student seeking diversity and enrichment in academic programs.
- To encourage the development of technical knowledge and professional skills which underlie the communicative functions of human expression.
- To nurture and expand, through this congregation of the arts, not only a knowledge of creative and cultural heritage but also a perceptual and aesthetic awareness of direct sensory experience through creation and performance.

The college recommends each student for the appropriate bachelor's or master's degree in accordance with the student's specialization.

# **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 in Studio Art (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 Science in Home Economics 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, Communication/Rhetoric, 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**

# 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:

	Credito
Beginning Sign Language I	3
Beginning Sign Language II	3
Intermediate Sign Language	3
Advanced Sign Language	3
Survey of Deaf Culture in America	2
	Beginning Sign Language II Intermediate Sign Language Advanced Sign Language

- Studio art coursework, including one course in each of six different areas of emphasis: e.g., printmaking, sculpture — 41 credits.
- Survey of History of Art I and II (7100:100,101) plus one additional advancedlevel art history course — 11 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 Certification in K-12 Art Education

• General Education requirement - 39 credits.

٠	Art Studio Cou	urses — 42 credits.	Credits
	7100:121	Three-Dimensional Design	3
	7100:131	Introduction to Drawing	3
	7100:144	Two-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
٠	Art History Co	urses — 19 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
	7100:401	Museology	2
	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 Certification in 7-12 Art Education

- General Education requirement 39 credits.
- Art Studio Courses 42 credits.

	/		
	7100:121	Three-Dimensional Design	3
	7100:131	Introduction to Drawing	3
,	7100:144	Two-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
٠	Art History Co	ourses — 19 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
	7100:401	Museology	2
	3600:350	Philosophy of Art	3

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.

### B.A. in Art History with Certification in K-12 Art Education

General Education requirement — 39 credits.

•	Art Studio Co	urses — 39 credits.		
	7100:121	Three-Dimensional Design	3	
	7100:131	Introduction to Drawing	3	
	7100:144	Two-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	9	

•	Art History Courses — 46 credits.		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
	7100:401	Museology	2
	3600:350	Philosophy of Art	3
		Other Art History courses as required by major	27

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 Certification in 7-12 Art Education

General Education requirement — 39 credits.

•	Art Studio Cou	irses — 39 credits.	
	7100:121	Three-Dimensional Design	3
	7100:131	Introduction to Drawing	3
	7100:144	Two-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
	7400.000	Or	2
	7100:266	Introduction to Metalsmithing	3
	7100:275	Introduction to Photography	3
		Art Studio electives beyond the introductory level	9
•	Art History Co	urses — 46 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
	7100:401	Museology	2
	3600:350	Philosophy of Art	3
		Other Art History courses as required by major	27

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
7100:121	Three-Dimensional Design	3
7100:131	Introduction to Drawing	3
7100:132	Instrument Drawing	3
7100:144	Two-Dimensional Design or	3 .
7100:286	Graphic Design II (for graphic design emphasis students)	3
7100:233	Life Drawing	3
7100:250	Portfolio Review	0
7100:210	Visual Arts Awareness	3

Electives — 6-9 credits.

Two advanced-level art history courses (one for graphic design emphasis students).

- 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 68 credits.

Ceramics		
7100:222	Introduction to Sculpture	3
7100:231	Drawing II	3
7100:254	Ceramics I	3
7100:354	Ceramics II	3
7100:454	Advanced Ceramics (to be repeated)	15
7100:456	Ceramics Portfolio Review	0
7100:495	Senior Exhibition	0
Drawing		
7100:231	Drawing II	3
7100:491	Architectural Presentations I	3
7100:283	Drawing Techniques	3

		<b>C</b> (1)	• • •		<b>.</b>
7100:331	Drawing III	Credits 3	Sculpture		Credits
7100:333	Advanced Life Drawing (to be repeated)*	6	7100:222	Introduction to Sculpture	3 3
7100:334	Drawing Portfolio Review	0	7100:231 7100:254	Drawing II Introduction to Ceramics	3
7100:431	Drawing IV (to be repeated)*	6	/100.204	or	
7100:xxx	Printmaking	3	7100:266	Introduction to Metalsmithing	3
7100:495	Senior Exhibition	0	7100:321	Figurative Sculpture	3
Graphic Design			7100:322	Sculpture II	3
7100:184	Graphic Design I	3	7100:323	Casting	3 0
7100:185	Introduction to Computer Graphics	3	7100:420	Sculpture Portfolio Review	9
7100:231	Drawing II	3	7100:422 7100:495	Advanced Sculpture (to be repeated) Senior Exhibition	9
7100:275	Introduction to Photography	3	7100:495	Senior Exhibition	U
7100:276	Introduction to Professional Photography	3	B.F.A. Art Ed	ducation Options	
7100:283	Drawing Techniques	3		-	
7100:286	Graphic Design II	3	B.F.A. with Ce	rtification in K-12 Art Education	
7100:288	Letterform and Typography	3	General Edu	cation requirement — 39 credits.	
7100:384	Graphic Design Portfolio Review	0	Gonola Edd		
7100:386	Packaging Design	3	<ul> <li>Art Studio Co</li> </ul>	ourses — 69 credits.	
7100:387	Advertising Layout Design	3	7100:121	Three-Dimensional Design	3
7100:388	Advertising Production and Design	3	7100:131	Introduction to Drawing	3
7100:482	Corporate Identity and Graphic Systems	3 3	7100:144	Two-Dimensional Design	3
7100:484 7100:485	Illustration Advanced Illustration	3	7100:286	or Graphic Design II	3
7100.465	or	3	7100:222	Introduction to Sculpture	3
7100:480	Advertising Graphic Design	3	7100:233	Life Drawing	3
7100:488	Publication Design	3	7100:244	Color Concepts	3
7100:483	Graphics Portfolio Presentations	3	7100:213, 4, 5	Introduction to Lithography, Screen, or Relief Printing	3
7100:495	Senior Exhibition	0	7100:245, 6, 7	Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3
Metalsmithing			7100:254	Introduction to Ceramics or	3
2920:247	Technology of Machine Tools	3	7100:266	Introduction to Metalsmithing	3
7100:222	Introduction to Sculpture	3	7100:275	Introduction to Photography	3
7100:266	Introduction to Metalsmithing	3		Other Art Studio courses as required by major	39
7100:268	Color in Metals	3	<ul> <li>Art History C</li> </ul>	Courses — 19-22 credits.	
7100:366	Metalsmithing II	3	7100:100	Survey of History of Art I	4
7100:466	Advanced Metalsmithing (to be repeated)**	12	7100:101	Survey of History of Art II	4
7100:467	Metalsmithing Portfolio Review	0	7100:210	Visual Arts Awareness	3
7100:495	Senior Exhibition	0	7100:300	Art Since 1945	3
7100:283	Drawing Techniques or		7100:401	Museology	2
7100:231	Drawing II	3	3600:350	Philosophy of Art	3
Painting	•			Other Art History courses as required by major	0-3
7100:231	Drawing II	3	<ul> <li>Professional</li> </ul>	education (including student teaching) — 41 credits.	
7100:245	Introduction to Polymer Acrylic Painting	3			-1 46
	Introduction to Watercolor Painting		Note: The Natio	onal Teacher Exam (NTE) is required for certification. Students must t	
7100:246		3	annerel linevide.		
7100:246 7100:247	÷	3	-	dge, professional knowledge, and art education segments of the NTf	
7100:246 7100:247 7100:348	Introduction to Valencolor i anting Introduction to Oil Painting Painting II (to be repeated in different media)		-	dge, professional knowledge, and art education segments of the NTE rtification in 7-12 Art Education	
7100:247	Introduction to Oil Painting	3	B.F.A. with Ce	rtification in 7-12 Art Education	
7100:247 7100:348	Introduction to Oil Painting Painting II (to be repeated in different media)	3 6	B.F.A. with Ce		
7100:247 7100:348 7100:350	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review	3 6 0	<ul><li>B.F.A. with Ce</li><li>General Educe</li></ul>	rtification in 7-12 Art Education	
7100:247 7100:348 7100:350 7100:449 7100:495	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated)	3 6 0 6	<ul><li>B.F.A. with Ce</li><li>General Educe</li></ul>	rtification in 7-12 Art Education cation requirement — 39 credits.	3
7100:247 7100:348 7100:350 7100:449 7100:495 <b>Photography</b>	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition	3 6 0 6	<ul> <li>B.F.A. with Ce</li> <li>General Educe</li> <li>Art Studio Co</li> </ul>	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits.	
7100:247 7100:348 7100:350 7100:449 7100:495	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated)	3 6 0 6 0	<ul> <li>B.F.A. with Ce</li> <li>General Educe</li> <li>Art Studio Co 7100:121</li> </ul>	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design	3
7100:247 7100:348 7100:350 7100:449 7100:495 <b>Photography</b> 3650:137	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition	3 6 0 6 0 3	<ul> <li>B.F.A. with Ce</li> <li>General Edu</li> <li>Art Studio Co 7100:121 7100:131 7100:144</li> </ul>	rtification in 7-12 Art Education cation requirement — 39 credits. burses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or	3 3 3
7100:247 7100:348 7100:350 7100:449 7100:495 <b>Photography</b> 3650:137 7100:231	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition	3 6 0 6 0 3 3	<ul> <li>B.F.A. with Ce</li> <li>General Edu</li> <li>Art Studio Co 7100:121 7100:131 7100:144 7100:286</li> </ul>	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II	3 3 3 3
7100:247 7100:348 7100:350 7100:449 7100:495 <b>Photography</b> 3650:137 7100:231 7100:235	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography	3 6 0 6 0 3 3 3 3 3 3 3 3 3 3	<ul> <li>B.F.A. with Ce</li> <li>General Edu</li> <li>Art Studio Co 7100:121 7100:131 7100:144</li> <li>7100:286 7100:222</li> </ul>	rtification in 7-12 Art Education cation requirement — 39 credits. burses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture	3 3 3 3 3
7100:247 7100:348 7100:350 7100:499 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:276 7100:370 7100:375	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography Introduction to Protography History of Photography Photography II	3 6 0 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	B.F.A. with Ce General Edu Art Studio Co 7100:121 7100:131 7100:144 7100:286 7100:222 7100:233	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing	3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:499 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:276 7100:276 7100:276	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography History of Photography History of Photography II Advanced Photography (to be repeated)	3 6 0 3 3 3 3 3 3 3 9	B.F.A. with Ce General Edu Art Studio Ce 7100:121 7100:131 7100:144 7100:286 7100:222 7100:223 7100:244	rtification in 7-12 Art Education cation requirement — 39 credits. burses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts	3 3 3 3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:449 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:276 7100:276 7100:375 7100:375 7100:375	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography History of Photography History of Photography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100:477,475 or 497)	3 6 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	B.F.A. with Ce General Edu Art Studio Cu 7100:121 7100:131 7100:144 7100:282 7100:223 7100:233 7100:244 7100:213, 4, 5	rtification in 7-12 Art Education cation requirement — 39 credits. burses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing	3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:499 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:276 7100:370 7100:375 7100:475	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography Introduction to Photography History of Photography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100:477,475 or 497) Photography Portfolio Review	3 6 0 3 3 3 3 3 3 3 3 3 3 9 3 0	B.F.A. with Ce General Edu Art Studio Co 7100:121 7100:131 7100:144 7100:286 7100:222 7100:233 7100:244 7100:213, 4, 5 7100:245, 6, 7	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing Introduction to Polymer Acrylic, Watercolor, or Oil Painting	3 3 3 3 3 3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:276 7100:370 7100:375 7100:475 7100:476 7100:476 7100:495	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography Introduction to Photography History of Photography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100:477,475 or 497) Photography Portfolio Review Senior Exhibition	3 6 0 3 3 3 3 3 3 3 3 3 3 9 3 0 0	B.F.A. with Ce General Edu Art Studio Cu 7100:121 7100:131 7100:144 7100:282 7100:223 7100:233 7100:244 7100:213, 4, 5	rtification in 7-12 Art Education cation requirement — 39 credits. burses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing	3 3 3 3 3 3 3 3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:275 7100:370 7100:370 7100:375 7100:475 7100:476 7100:495 7100:xxx	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography Introduction to Photography History of Photography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100:477,475 or 497) Photography Portfolio Review	3 6 0 3 3 3 3 3 3 3 3 3 3 9 3 0	B.F.A. with Ce General Edu Art Studio Cu 7100:121 7100:131 7100:246 7100:223 7100:233 7100:244 7100:213, 4, 5 7100:254 7100:254 7100:266	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing Introduction to Polymer Acrylic, Watercolor, or Oil Painting Introduction to Ceramics	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:495 <b>Photography</b> 3650:137 7100:231 7100:275 7100:276 7100:370 7100:375 7100:475 7100:475 7100:475 7100:476 7100:495 7100:xxx <b>Printmaking</b>	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography Introduction to Protography History of Photography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100.477,475 or 497) Photography Portfolio Review Senior Exhibition Printmaking (to be selected from the courses offered in Printmaking)	3 6 0 3 3 3 3 3 3 3 3 3 3 9 3 0 0	B.F.A. with Ce General Edu Art Studio Ce 7100:121 7100:131 7100:144 7100:286 7100:222 7100:223 7100:244 7100:213, 4, 5 7100:245, 6, 7 7100:254	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing Introduction to Polymer Acrylic, Watercolor, or Oil Painting Introduction to Ceramics or Introduction to Metalsmithing Introduction to Photography	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:449 7100:495 <b>Photography</b> 3650:137 7100:231 7100:231 7100:275 7100:276 7100:370 7100:375 7100:375 7100:475 7100:475 7100:475 7100:495 7100:495 7100:xxx	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography Introduction to Protography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100:477,475 or 497) Photography Portfolio Review Senior Exhibition Printmaking (to be selected from the courses offered in Printmaking) wing:	3 6 0 3 3 3 3 3 3 3 9 3 0 0 0 3	B.F.A. with Ce General Edu Art Studio Cu 7100:121 7100:131 7100:246 7100:223 7100:233 7100:244 7100:213, 4, 5 7100:254 7100:254 7100:266	rtification in 7-12 Art Education cation requirement — 39 credits. burses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing Introduction to Polymer Acrylic, Watercolor, or Oil Painting Introduction to Polymer Acrylic, Watercolor, or Oil Painting Introduction to Metalsmithing	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
7100:247 7100:348 7100:350 7100:499 7100:495 <b>Photography</b> 3650:137 7100:231 7100:276 7100:276 7100:276 7100:375 7100:476 7100:475 7100:475 7100:475 7100:485 7100:485 7100:485 7100:213	Introduction to Oil Painting Painting II (to be repeated in different media) Painting Portfolio Review Advanced Painting (to be repeated) Senior Exhibition Light Drawing II Introduction to Photography History of Photography History of Photography Photography II Advanced Photography (to be repeated) One additional course in Photography (7100:477,475 or 497) Photography Portfolio Review Senior Exhibition Printmaking (to be selected from the courses offered in Printmaking) wing: Introduction to Lithography	3 6 0 3 3 3 3 3 3 3 9 3 0 0 0 3	<ul> <li>B.F.A. with Ce</li> <li>General Edu</li> <li>Art Studio Co 7100:121 7100:131 7100:144</li> <li>7100:286 7100:222 7100:233 7100:244</li> <li>7100:244 7100:213, 4, 5 7100:254</li> <li>7100:254</li> </ul>	rtification in 7-12 Art Education cation requirement — 39 credits. ourses — 69 credits. Three-Dimensional Design Introduction to Drawing Two-Dimensional Design or Graphic Design II Introduction to Sculpture Life Drawing Color Concepts Introduction to Lithography, Screen, or Relief Printing Introduction to Polymer Acrylic, Watercolor, or Oil Painting Introduction to Ceramics or Introduction to Metalsmithing Introduction to Photography	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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\* 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: Home Economics and Family Ecology\*

The mission of the School of Home Economics and Family Ecology is to prepare professionals to take leadership positions as generalists and specialists in the areas of home economics. These include dietetics, family and child development, child life, nutrition, clothing, textiles and interiors and vocational home economics 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.\*\*
- Home Economics and Family Ecology Core:

All students enrolled in baccalaureate programs in the School of Home Economics and Family Ecology are required to complete the following core of requirements:

7400:147 Orientation to Professional Studies in Home Economics & Family Ecology 1 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 Text	tiles and Interiors:	Credits
7400:225	Textiles	3
7400:259	Family Housing	3
7400:219	Clothing Communication	3
Family and Ch	nild Development:	
7400:201	Courtship, Marriage and the Family	3
7400:265	Child Development	3
Nutrition/Diet	etics 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 Home Economics and Family Ecology during first semester freshman year. In addition to departmental requirements listed under 7400: Home Economics and Family Ecology, a student must complete one of the following options:

### Family Development

raining Deve	opment	
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
7400:201	Courtship, Marriage and the Family	3
7400:255	Fatherhood: The Parent Role	3
7400:265	Child Development	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
7400:445	Public Policy and The American Family or	3
7400:300	Legal Environment of Families	3
7400:496	Parenting Education	3
7400:497	Internship in Home Economics	5
7750:276	Introduction to Social Welfare	4
	Electives selected in consultation with adviser	9
Child Develo	pment	

Child Development				
2200:245	Infant/Toddler Day-Care Programs			
2200:250	Observing and Recording Child Behavior			
5200:310	Introduction to Early Childhood			
5200:315	Issues and Trends in Early Childhood Education			
	, -			

 The second year of a foreign language is an optional requirement for the School of Home Economics and Family Ecology. Please consult with an adviser in the the proper degree area for options available.

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\*\* The University College's General Education requirement for the Bachelor of Science in Diettetics and the Bachelor of Arts in Food Science 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 above-mentioned courses meet the American Dietetic Association requirements. College of Fine and Applied Arts 1997-98 131

		Credits
5200:360	Teaching in the Nursery Center	2
5200:370	Nursery Center Laboratory	2
5850:295	Education Technician Field Experience	5
	or	
7400:497	Internship in Home Economics	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 and Guidance of Play	3
7400:280	Creative Activities for Pre-Kindergarten Children	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	Adolescents in the Family Context	3
7400:460	Organization and Supervision of Child-Care Centers	3
	Electives selected in consultation with adviser	9
D /// /		
	ten Certification:	
2200:245	Infant/Toddler Day Care Programs	3
2200:250	Observing & Recording Children's Behavior	3
3850:340	The Family	3
3850:344	The Sociology of Sex Roles	3
3850:412	Socialization: Child to Adult	3
5200:200	Pre-Kindergarten Participation	1
5200:300	Pre-Kindergarten Participation	1
5200:310	Introduction to Early Childhood	3
5200:315	Issues and Trends in Early Childhood Education	3
5200:355	Language and Literacy in Early Childhood Education	3
5200:360	Teaching in the Nursery Center	2
5200:370	Nursery Center Laboratory	2
5200:403	Student Teaching Seminar	1
5200:495	Student Teaching	8
5500:336	Motor Learning and Development for Early Childhood	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	Creative Activities for Pre-Kindergarten Children	4
7400:303	Children as Consumers	3
7400:360	Parent-Child Relations	3
7400:401	Family Life Patterns: Economically Deprived Home	2
7400:404	Adolescent in the Family Context	3
7400:448	Before and After School Care	2
7400:460	Organization and Supervision of Child Care Centers	3
	Electives	4
<b>.</b>		
Child-Life Spe		
3750:100	Introduction to Psychology	3
2740:120	Medical Terminology	3
3750:430	Psychological Disorders of Children	4
5200:360	Teaching in Nursery School	2
5200:370	Nursery Center Laboratory	2
5600:450	Counseling Problems Related to Life Threatening	3
	Illness and Death	
5610:440	Developmental Characteristics of Exceptional Individuals	3
7400:270	Theory and Guidance of Play	3
7400:280	Creative Activities for Pre-Kindergarten Children	4
7400:404	Adolescence in the Family Context	3
7400:451	The Child in the Hospital	4
7400:455	Practicum: Establishing and Supervising a Child-Life Program Centers	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 Science**

In addition to school requirements listed under 7400: Home Economics and Family Ecology, the student must complete the following courses:

 Core (A minimum grade 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 in Food Science 5

‡ Required for B.S. in dietetics

<ul> <li>Food Scie</li> </ul>	ence Electives:	Credits
(Students se grade of C is	elect one or more of the following upper division Food Science	e courses. A minimum
•		
7400:403	Advanced Food Preparation	3
7400:474	Cultural Dimensions of Food	3
7400:476	Developments in Food Science	3
Supportin	ng Discipline Requirements:	
3300:390	Professional Writing	3
	or	
2020:222	Technical Report Writing	3
2440:120	Computer and Software Fundamentals	2
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	5
	and	
7400:315	Food Systems Management I, Clinical	2
	or	
2280:233	Restaurant Operations and Management	4
7400:316	Science of Nutrition	4
7400:340	Meal Service	2
7400:450	Demonstration Techniques	2
Science E	Electives:	
(Students c	hoose at least six credits from the following courses.)	
2840:201/2	02/255/270	
	06/207/211-2/217/331/400/440	
	35/336/401-5/411	
3650:137-8		
	26/487/474/475/476/485/490/491	

### **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: Home Economics and Family Ecology, a student must complete the courses in the core and the courses in one track.

Core:		
6600:335	Advertising	3
	or	
2520:103	Principles of Advertising	3
6600:375	Professional Selling	3
	or	
2520:212	Principles of Sales	3
6600:305	Essentials of Retailing	3
	or	
2520:202	Retailing Fundamentals	3
6600:300	Marketing Principles	3
	or	
2420:101	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

Track Options: Students must complete one track

#### Apparel Track

7400:336

7400:418

7400:419

C .....

	7400:125	Principles of Apparel Design	3
	7400:219	Clothing Communications	3
	7400:221	Evaluation of Apparel and Textile Product	3
	7400:437	Historic Costume to 1800	3
	7400:438	History of Fashion Since 1780	3
	7400:xxx	Apparel, Home Furnishings, and Fiber Arts Tracks Electives (see below)	9
•	Home Furnish	ings Track	
	7400:158	Introduction to Interior Design	3
	7400:221	Evaluation of Apparel and Textile Products	3
	7400:259	Family Housing	3
	7400:334	Specifications for Interiors I	3
	7400:335	Specifications for Interiors II	3

Principles and Practices of Design

History of Interior Design I

History of Interior Design II

<ul> <li>Fiber Arts Track:</li> </ul>		Credits
0:125	Principles of Apparel Design	З
	or	
0:158	Introduction to Interior Design	3
0:311	Studies in Fiber Arts	6
0:418	History of Interior Design I	4
	AND	
0:419	History of Interior Design II	4
	or	
0:437	Historic Costume to 1800	З
	AND	
0:438	History of Fashion since 1780	З
0:xxx	Apparel, Home Furnishings, and Fiber Arts Electives (see below)	9
	er Arts Trac 0:125 0:158 0:311 0:418 0:419 0:437 0:438 0.xxx	0:125 Principles of Apparel Design or 0:158 Introduction to Interior Design 0:311 Studies in Fiber Arts 0:418 History of Interior Design I AND 0:419 History of Interior Design II or 0:437 Historic Costume to 1800 AND 0:438 History of Fashion since 1780

### Electives for Apparel, Home Furnishings, and Fiber Arts Tracks:

ourses used to fu	ulfill track requirements may not be used as elective courses.)	
7400:219	Clothing Communications	3
7400:301	Consumer Education	3
	or	
7400:302	Consumer Services	3
	or	
7400:303	Children as Consumers	3
7400:305	Advanced Construction and Tailoring	3
7400:311	Studies in Fiber Arts	3
7400:423	Professional Image Analysis	3
7400:436	Textile Conservation	3
7400:449	Flat Pattern Design	3
7400:485	Fashion Merchandising Seminars	3
7400:490	Fashion Merchandising Workshops	3
7400:497	Internship (appropriate to track)	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 coursework are included in this program. Assistance with entry-level job placement is available. Affiliation with the American Society of Interior Designers (ASID) is available through membership in the student chapter.

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:

Sharon Dietrick, *Dietrick and Associates Interiors, Inc.* Mark Hauserman, *KHGL* Todd Huckabone, *Donghia* Paul John, *The University of Akron* Lucille Anderson, BIE, *Work of Wonder* Ron Krajewski, NCIDQ, IIDA, *T.W. Grogan Co.* Diane Police, NCIDQ, IIDA, *T.W. Grogan Co.* Diane Police, NCIDQ, IIDA, *T.W. Grogan Co.* Xathy Presciano, NCIDQ, IIDA, *Nela Park Lighting Institute* Marjorie Reynolds, *Ethan Allen* Roger Ryan, AIA, *The University of Akron* Nicholas Square, BIE

### 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
7400:158	Introduction to Interior Design

- · Completion of application for Interior Design Major
- Completion of the screening process

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 Selection and notification by the interior design faculty into the Interior 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.

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:

Carolyn A. Albanese, NCIDO, IDEC, Allied Member ASID Director, Interior Design Studies Interiors Division, 215D Schrank Hall South The University of Akron Akron, 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 (80 semester hours)

Students are required to take the following Interior Design Core Course and 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	DATACAD for Interior Design	3
7400:258	Light in Man-Made Environments	3
7400:259	Family Housing	3
7400:302	Consumers of Services	3
7400:331	Interior Design Theory	3
7400:332	Human Factors and Interior Space	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
7400:418	History of Interior Design I	4
7400:419	History of Interior Design II	4
7400:425	Advanced Textiles	3
7400:433	Residential Design	3
7400:434	Commercial Design	3
7400:435	Decorative Elements in Interior Design	1
7400:458	Office Design	3
7400:459	Senior Design Synthesis	3
7400:478	Senior Portfolio Review	1
7400:479	The NCIDO Examination	1
7400:497	Interior Design Internship	3
The student is	also required to take the following courses which a	satisfy both

The student is also required to take the following courses which satisfy both General Education requirements and Interior Design Requirements:

3750:100	Introduction to Psychology (Social Science)	
3870:150	Cultural Anthropology (Social Science)	
7100:210	Visual Arts Awareness (Humanities)	

# Bachelor of Arts (2+2) 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 Home Economics and Family Ecology, College of Fine and Applied Arts.

# Bachelor of Arts in Fashion Merchandising Business Option (2+2) 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 Home Economics and Family Ecology, College of Fine and Applied Arts.

### **C&T Requirements**

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		Credits
2020:121	English	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:101	Essentials of Marketing Technology	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2420:243	Survey of Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals	2
2520:103	Principles of Advertising	3
2520:106	Visual Promotion	3
2520:202	Retailing Fundamentals	3
2520:210	Consumer Service Fundamentals	2
2520:211	Mathematics of Retail Distribution	3
2520:212	Principles of Salesmanship	3
2540:119	Business English	3
5540:xxx	Physical Education	1
7600:105	Introduction to Public Speaking	3
Fashion Opti	on	
2420:202	Personnel Practices	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 Home Economics and Family Ecology 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
2440:120	Computer and Software Fundamentals	2
2520:211	Mathematics and Retail Distribution	3
2520:106	Visual Promotion	3

 Completion of remaining credits in the School of Home Economics and Family Ecology 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
	OF	
7400:265	Child Development	3
7400:352	Strategic Merchandise Planning	3
7400:427	Global Issues in Textiles and Apparel	3
7400:439	Fashion Analysis	3
7400:362	Family Life Management	3

		Credits
7400:425	Advanced Textiles	3
7400:447	Senior Seminar: Critical Issues	1
7400:xxx	Fashion Merchandising Track (See B.A. in Fashion Merchandising)	24-26

# Bachelor of Arts in Fashion Merchandising, Business Option (2+2) 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 Home Economics and Family Ecology.

# C&T College Requirements

our conoge	noqua criterite	
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
2420:101	Essentials of Marketing Technology	3
2420:170	Business Mathematics	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
2440:120	Computer and Software Fundamentals and	2
2520:215	Advertising Projects or	2
2520:219	Sales Projects	2
2520:103	Principles of Advertising	3
2520:106	Visual Promotion	3
2520:202	Retailing Fundamentals	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	ine and Applied Arts Requirements	
7400:123	Fundamentals of 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 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 2+2 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 coursework 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 coursework

during their junior and senior years. The 2+2 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 coursework and 900 hours of experience before they are eligible to take the registration 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 pre-requisite courses indicated below by an asterisk(\*). Some remaining preequisites 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 encouraged before applying for the Coordinated Program.

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 2+2 Option with C & T.

### **Didactic Program Option**

 Home Economics and Family Ecology Core (14 credits) Note: 7400:133 Nutrition Fundamentals<sup>\*\*</sup> must be taken.

•	General Educa	tion Requirement (43 credits)	Credits
	3150:110, 111	Introduction to General, Organic, and Biochemistry I* <sup>‡</sup>	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:XXX	Humanities elective	3
	XXXXXXXX	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
	3450:xxx	Mathematics* (per placement test)	3
	3850:100	Introduction to Sociology*	4
	5540:xxx	Physical Education	1
	7600:105	Introduction to Public Speaking* or	3
	7600:106	Effective Oral Communication	3
•	American Diet	etic Association Requirements (71-73 credits)	
	3100:130	Principles of Microbiology <sup>#‡</sup>	3
	3100:208	Human Anatomy and Physiology I**	4
	3100:209	Human Anatomy and Physiology II* <sup>‡</sup>	4
	3470:260	Basic Statistics	3
		or ,	
	3470:261	Introductory Statistics I	2
	3750:100	Introduction to Psychology* <sup>‡</sup>	3
	5400:351	Consumer Homemaking Methods	4
	6200:201	Accounting i*	4
		or	•
	2420:211	Basic Accounting I*	3
	6500:341	Human Resource Management <sup>‡</sup>	3
	6500:480	Introduction to Health-Care Management <sup>‡</sup>	3
	7400:245	Food Theory and Application I**	3
	7400:246	Food Theory and Application II**	3
	7400:301	Consumer Education	3
	7400:310	Food Systems Management I <sup>‡</sup>	5
	7400:315	Food Systems Management   Clinical <sup>‡</sup>	2
	7400:328	Nutrition in Medical Science I <sup>‡</sup>	4
	7400:413	Food Systems Management II <sup>‡</sup>	3
	7400:424	Nutrition in the Life Cycle <sup>‡</sup>	3 5
	7400:426	Therapeutic Nutrition <sup>‡</sup>	-
	7400:428	Nutrition in Medical Science II <sup>‡</sup>	5
	7400:480		3
	7400:482	Community Nutrition II <sup>‡</sup>	3
•	Electives (10 h	nours)	

Electives (10 hours)

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.

Credits

### **Coordinated Program Option**

Home Economics and Family Ecology Core (14 credits) Note: 7400:133 Nutrition Fundamentals\*<sup>‡</sup> must be taken General Education Requirement (43 credits) Credits Introduction to General, Organic, and Biochemistry I\*‡ 3150:110, 111 4 3150:112, 113 Introduction to General, Organic, and Biochemistry II+‡ Δ 3250:100 Introduction to Economics\* 3 3300:111 English Composition I\* 4 English Composition II\* 3 3300:112 3400:210 Humanities in the Western Tradition I 4 Humanities elective 3 XXXX:XXX 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 Introduction to Sociology\* 4 3850:100 Physical Education 5540:xxx 1 Introduction to Public Speaking\* 3 7600:105 or 7600:106 Effective Oral Communication 3 American Dietetic Association Requirements (79-81 credits) Principles of Microbiology • ‡ 3100:130 3 Human Anatomy and Physiology I\*\* 3100:208 4 3100:209 Human Anatomy and Physiology II\*<sup>‡</sup> 4 **Basic Statistics** 3470:260 3 or 3470:261 Introductory Statistics # 2 3750:100 Introduction to Psychology\*\* 3 Consumer Homemaking Methods<sup>‡</sup> 5400:351 Accounting I\* 6200:201 4 or 3 2420:211 Basic Accounting I Human Resource Management<sup>‡</sup> 6500:341 3 Introduction to Health-Care Management<sup>‡</sup> 6500:480 3 Food Theory and Application I\*\* 7400:245 3 Food Theory and Application II\*\* 7400:246 3 Food Systems Management I<sup>‡</sup> 7400:310 5 Food Systems Management I Clinical<sup>‡</sup> 7400:315 2 Nutrition in Medical Science I<sup>‡</sup> 7400:328 4 7400:329 Nutrition in Medical Science I Clinical<sup>‡</sup> 3 7400:413 Food Systems Management II<sup>‡</sup> 3 7400:414 Food Systems Management II Clinical<sup>‡</sup> 2 7400:424 Nutrition in the Life Cycle<sup>‡</sup> 3 7400:426 Therapeutic Nutrition<sup>‡</sup> 5 7400:428 Nutrition in Medical Science II<sup>‡</sup> 5 7400:429 Nutrition in Medical Science II Clinical<sup>‡</sup> 3 Community Nutrition I<sup>‡</sup> 7400:480 3 7400:481 Community Nutrition I Clinical<sup>‡</sup> 1 7400:482 Community Nutrition II<sup>‡</sup> 3 7400:483 Community Nutrition II Clinical<sup>‡</sup> 1 7400:486 Staff Relief: Dietetics<sup>‡</sup> 1

Electives (5 hours)

### (2+2) Option with C & T (Restaurant Management)

	······································	•
2020:121	English	4
2020:222	Technical Report Writing	3
2040:247	Survey of Basic Economics	3
2280:120	Safety and Sanitation	3
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	2
2280:233	Restaurant Operation and Management	4
2280:237	Internship	1
2280:238	Cost Control Procedures	3
2280:240	Systems Management and Personnel	3
2280:243	Food Equipment and Plant Operations	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
	or	
2540:263	Business Communications	3
2420:280	Essentials of Business Law	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.

2520:103	Principles of Advertising	3
2540:119	Business English	3
3100:130	Principles of Microbiology <sup>‡</sup>	3
3100:208	Human Anatomy and Physiology I <sup>‡</sup>	4
3100:209	Human Anatomy and Physiology II <sup>‡</sup>	4
3150:110	Introduction to General, Organic & Biochemistry I <sup>‡</sup>	4
3150:111	Introduction to General, Organic & Biochemistry II <sup>‡</sup>	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I	4
XXXX:XXX	Humanities elective	3
XXXX:XXX	<ul> <li>Humanities elective Note: See General Education Program under University College.</li> <li>Humanities electives must be chosen from two different sets.</li> </ul>	3
3400:385-391	World Civilization	2
3450:145	College Algebra	4
3470:260	Basic Statistics or	3
3470:261	Introductory Statistics I	2
3750:100	Introduction to Psychology <sup>‡</sup>	3
3850:100	Introduction to Sociology	4
5400:351	Consumer Homemaking Methods <sup>‡</sup>	4
5540:xxx	Physical Education	1
6500:480	Introduction to Health Care Management <sup>‡</sup>	3
7400:xxx	Clothing Communication, Textiles or Housing option	3
7400:133	Nutrition Fundamentals <sup>‡</sup>	3
7400:147	Orientation to Professional Studies in Home Economics 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 <sup>‡</sup>	4
7400:362	Family Life Management	3
7400:413	Food Systems Management II <sup>‡</sup>	3
7400:420	Experimental Foods or	3
7400:421	Special Problems: Food Theory and Application II	3
7400:421	Special Problems: Food Systems Management I	2
7400:424	Nutrition in Life Cycle <sup>‡</sup>	3
7400:426	Therapeutic Nutrition <sup>‡</sup>	5
7400:428	Nutrition in Medical Science II <sup>‡</sup>	5
7400:447	Critical Issues in Home Economics	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

### Home Economics Teacher Education

Home economics education majors receive training and preparation to teach in grades 7 through 12. Options are available in vocational work and family life education (consumer homemaking), vocational job training and non-vocational home economics. Vocational job training specializations are available in foods and hospitality, child-care/day-care, fabrics and interiors, health, home and community, and multi-area options. A minor in home economics education is also available. Home economics education students may elect to graduate from the College of Education or the College of Fine and Applied Arts. Contact the School of Home Economics and Family Ecology for copies of these specific programs or to meet with the home economics education adviser. Transcript analysis for these specific vocational options is available upon request.

#### Secondary Education Requirements for Home Economics Education **Teaching Certificates**

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5050:210	Characteristics of Learners	3
5050:211	Teaching and Learning Strategies	3
5050:310	Instructional Design	3
5050:311	Instructional Resources	3
5050:320	Diversity in Learners	3
5050:330	Classroom Management	3
5050:410	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	Microcomputer Literacy for Secondary Teachers (30 clinical hours)	2
5300:495	Student Teaching	8-11

Vocational Work and Family Life Education and Multi-area Job Training

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

### **Certification: 4-Year Provisional**

•	Vocational Me	thods Certification Requirements	
	5200:360 5200:370 5400:301 5400:351 5400:451	Teaching in the Nursery Center Nursery Center Laboratory Occupational Employment Experience Vocational Work and Family Life Education Vocational Home Economics Job Training Methods	2 2 4 4 3
•	Select one of	the following	
	7100:121 7100:191	Three-Dimensional Design Design	3 2
٠	Required		
	7400:123 7400:133 7400:147	Clothing Construction Nutrition Fundamentals Orientation to Professional Studies in Home Economics and Family Ecology	3 3 1
	7400:158	Introduction to Interior Design and Furnishings	3
	7400:159	Family Housing	3
	7400:201	Courtship, Marriage and Family Relationships	3
	7400:225	Textiles	3
	7400:245	Food Theory and Application	3
	7400:246	and Food Theory and Application II or	3
	7400:141	Food for the Family	3
	7400:265	Child Development	3
٠	Select one of	the following	
	7400:301	Consumer Education	3
	7400:303	Children as Consumers	3
•	Select one of	the following	
	7400:305	Advanced Construction and Tailoring	3
	7400:449	Flat Pattern Design	3
•	Select one of	the following	
	2280:121	Fundamentals of Food Preparation	2
	7400:340	Meal Service	2
٠	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 Home Economics	1
	7400:450	Demonstration Techniques	2
	7400:485	Seminar in Home Economics (taken during Student Teaching)	1

### Senior Honors Program

Senior honors project in home economics 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.

7520:100	Freshman level
7520:200	Sophomore level
7520:300	Junior level
7520:400	Senior 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 credits 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 Sixteen 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 in a major conducted ensemble on their major declared instrument each semester they are enrolled as a music major, eight semesters minimum. 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: Freshman Chorale, 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

### Minimum Proficiency Requirements in Keyboard and Voice

 All music majors must meet minimum proficiencies in keyboard, and music education students, in voice.

Keyboard proficiency is met by successfully completing keyboard Harmony I and II and passing a final keyboard examination.

The voice proficiency requirement (for music education students only) is met by successfully completing one semester of Class Voice, or by passing a voice jury.

<ul> <li>Core curric</li> </ul>	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:

dent Recital (four semesters)	0
sic Organization (four semesters in a major conducted ensemble	
primary instrument)	4
olied Music 8	B
mpletion of the 200 level on primary instrument)	
	sic Organization (four semesters in a major conducted ensemble primary instrument) lied Music

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.

<ul> <li>Analised assists and an effective assists and the Additional required assisted a</li></ul>	unia anurana 14 aradita
Applied music and performance courses — 40 credits     Credits     Additional required music and performance courses — 40 credits	usic courses — 14 credits
7500:157 Student Recital (eight semesters) 0 7500:371 Analytica	al Techniques
7510:xxx Music Organization* 8 7500:471 Counter	point
7520:xxx Applied Music - primary instrument (completion of the 400 level 7500:361 Conduct	ing
is required prior to graduation) 32 7510:108 Opera W	Vorkshop
Additional required music courses — 14-15 credits	
7500.266 Diction	
7500:361 Conducting 2 7500:365 Song Lite	erature
7500:371 Analytical Techniques 2 Foreign Language Rec	quirement — 12 credits
7500:372 20th Century Analysis 2	
7500:454 Orchestration 2 3550:101 Italian	
7500:471 Counterpoint 2 3530:101 German	
7500:497 independent Study (with approval of applied instructor and adviser) 2 3520:101 French	
7500:353 Electronic Music 3 Senior recital (full recit	tal required).
(As an alternative to 7500:452 Composition, or 7500:454 Orchestration, or	
7500:471 Counterpoint) • Electives 6 credits.	
Electives 5-6 credits.	
• Senior recitar (rui recitar required).	is in voice/musical theat
Total of 142 credits re	equired for degree.
Performance (emphasis in piano/harpsichord)     General Education rec	quirement — 42 credits.
<ul> <li>Total of 132 credits required for degree.</li> </ul>	
General Education requirement — 42 credits.     Core curriculum in mu	usic — 18 credits.
7500:101 Intro to f	Music Theory**
Core curriculum in music — 30 credits. 7500:104 Class Pia	
Applied music and performance courses 40 credits.     7500:105     Class Pic     Theorem     Theorem	
7500:157 Student Regital (right competers) 0	
7510 year Music Creatization 7500.152 Theory 1	
7520 www. Applied Music, primary instrument (completion of the 400 level /500:154 Music L	iterature !
is required prior to graduation) 32 7500.155 Wusic El	iterature I
7500.141,2,3,4 Eai Haii	hing/Sight Reading I, II, II, IV d Harmony !
Additional required music courses — 14 creats:	d Harmony II
7500:271 Piano Pedagogy and Literature 2	
	rformance courses — 44
	Recital (eight semesters)
7500:361 Conducting 2 7510:108 Opera V	Vorkshop (six semesters)
7500:371 Analytical Techniques 2 7510:1xx Choral E	nsembles (by audition)
7500:371         Analytical Techniques         2         7510:1xx         Choral E           7500:451         Introduction to Musicology         2         7520:x24         Applied	Voice (completion of 300 level)
7500:371         Analytical Techniques         2         7510:1xx         Choral E           7500:451         Introduction to Musicology         2         7510:1xx         Choral E           7500:497         Independent Study (with approval of applied instructor and advisor)         2         7520:x24         Applied	Voice (completion of 300 level) Piano (completion of 200 level)
7500:371         Analytical Techniques         2         7510:1xx         Choral E           7500:451         Introduction to Musicology         2         7510:1xx         Choral E           7500:497         Independent Study (with approval of applied instructor and advisor)         2         7520:x24         Applied	Voice (completion of 300 level)
7500:371     Analytical Techniques     2     7510:1xx     Choral E       7500:451     Introduction to Musicology     2     7520:x24     Applied       7500:497     Independent Study (with approval of applied instructor and advisor)     2     7520:x25     Applied       • Electives — 6 credits.     • Additional required m	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits.
7500:371     Analytical Techniques     2     7510:1xx     Choral E       7500:451     Introduction to Musicology     2     7510:1xx     Choral E       7500:497     Independent Study (with approval of applied instructor and advisor)     2     7520:x24     Applied       • Electives — 6 credits.     • Additional required m       • Senior recital (full recital required).     7500:265     Diction I	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits.
7500:371     Analytical Techniques     2     7510:1xx     Choral E       7500:451     Introduction to Musicology     2     7510:1xx     Choral E       7500:497     Independent Study (with approval of applied instructor and advisor)     2     7520:x24     Applied       • Electives — 6 credits.     • Additional required m       • Senior recital (full recital required).     7500:265     Diction I	Voice (completion of 300 level) Piano (completion of 200 level) USIC COURSES — 4 credits. Theatre History and Literature I
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives —       6 credits.       • Additional required m         • Senior recital (full recital required).       7500:265       Diction I <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives —       6 credits.       • Additional required m         • Senior recital (full recital required).       7500:265       Diction I <b>Performance (emphasis in strings)</b> • Theatre Core —       20 c         • Total of 133 credits required for degree.       7800:145       Movemory	Voice (completion of 300 level) Piano (completion of 200 level) USIC COURSES — 4 credits. Theatre History and Literature I
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives —       6 credits.       • Additional required m         • Senior recital (full recital required).       7500:265       Diction I <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       7800:145       Movemory         • General Education requirement — 42 credits.       7920:270       Musical	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       • 7920:270         • General Education requirement — 42 credits.       7920:270         • Core curriculum in music — 30 credits.       7920:151	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       • Roo:145         • General Education requirement — 42 credits.       7920:270         • Core curriculum in music — 30 credits.       7920:110	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m         • Performance (emphasis in strings)       • Theatre Core — 20 c         • Total of 133 credits required for degree.       • Recent Education requirement — 42 credits.         • Core curriculum in music — 30 credits.       • 40 credits.         • Applied music and performance courses — 40 credits.       7800:122	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques nd Diction
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       • Roo:145         • General Education requirement — 42 credits.       7920:270         • Core curriculum in music — 30 credits.       7800:151         • Applied music and performance courses — 40 credits.       7800:262         7500:157       Student Recital (eight semesters)       0	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques nd Diction Makeup Theatre History and Literature II
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m         • Total of 133 credits required for degree.       • Theatre Core — 20 c         • Total of 133 credits required for degree.       • 7920:270       Musical         • Core curriculum in music — 30 credits.       • 40 credits.       7800:151       Voice an         • Applied music and performance courses — 40 credits.       7800:321       Musical         • 7500:157       Student Recital (eight semesters)       0       7800:321       Musical         • 7500:157       Music Organization*       8       7800:421       Musical	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x25       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m         • Total of 133 credits required for degree.       • Theatre Core — 20 c         • Total of 133 credits required for degree.       • 7800:145       Movem         • General Education requirement — 42 credits.       • 7920:270       Musical         • Core curriculum in music — 30 credits.       • 7800:151       Voice ar         • 7500:157       Student Recital (eight semesters)       0       7800:321       Musical         • 7510:xxx       Music Organization*       8       7800:421       Musical         • 7520:xxx       Applied Music - primary instrument (completion of the 400 level       7800:475       Acting for	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques nd Diction Makeup Theatre History and Literature II
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       • Recital Education requirement — 42 credits.         • Core curriculum in music — 30 credits.       • 790:270         • Applied music and performance courses — 40 credits.       7800:151         • 7500:157       Student Recital (eight semesters)       0         7500:157       Student Recital (eight semesters)       0         7500:157       Music Organization*       8	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x25       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       7800:145       Movem         • General Education requirement — 42 credits.       7800:151       Voice ar         • Core curriculum in music — 30 credits.       7800:262       Stage N         • Applied music and performance courses — 40 credits.       7800:262       Stage N         7510:xxx       Music Organization*       8       7800:321       Musical         7510:xxx       Applied Music - primary instrument (completion of the 400 level is required prior to graduation)       32       • Dance Core — 10 credits	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:497       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m         • Senior recital (full recital required).       • Additional required m <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c         • Total of 133 credits required for degree.       • 7920:270         • General Education requirement — 42 credits.       7920:270         • Applied music and performance courses — 40 credits.       7800:151         • Xoic 157       Student Recital (eight semesters)       0         7510:xxx       Applied Music primary instrument (completion of the 400 level       7800:211         • Additional required music courses — 15-16 credits       7900:119       Introduction function         • Additional required music courses — 15-16 credits       7900:124       Ballet 1:	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. I Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits ction to Contemporary Dance Tec Introduction to Ballet I
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m       7500:265       Diction I         • Senior recital (full recital required).       • Additional required m       7500:265       Diction I <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c       7800:145       Movema         • General Education requirement — 42 credits.       • 7920:270       Musical         • Core curriculum in music — 30 credits.       • 7800:151       Voice at         • Applied music and performance courses — 40 credits.       7800:262       Stage M         • 7500:157       Student Recital (eight semesters)       0       7800:321       Musical         • 500:157       Student Recital (completion of the 400 level       8       7800:421       Musical         • 500:361       Conducting       2       7900:119       Introducting for         • 7500:361       Conducting       2       7900:124       Ballet I:         • 7500:361       Conducting       2       79	Voice (completion of 300 level) Piano (completion of 200 level) USIC COURSES — 4 credits. I Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre Stits tion to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m       7500:265       Diction I         • Senior recital (full recital required).       • Additional required m       7500:265       Diction I <b>Performance (emphasis in strings)</b> • Theatre Core — 20 c       7800:145       Movem         • Core curriculum in music — 30 credits.       • 7920:270       Musical         • Applied music and performance courses — 40 credits.       7800:151       Voice ar         • 7500:157       Student Recital (eight semesters)       0       7800:421       Musical         • 7500:255       Student Recital (eight semesters)       0       7800:421       Musical         • 7500:361       Conducting       2       7900:124       Ballet I:       7900:124       Ballet I:         • 7500:371       Analytical Techniques       2       7900:130       Jazz Dai       7900:124       Ballet I:       7900:124       Ballet I:       7900:130       Jazz Dai       7900:130       Jazz Da	Voice (completion of 300 level) Piano (completion of 200 level) Usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec Introduction to Ballet I noce I: Introduction to Jazz Dance
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7520:x24       Applied         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m       7500:265       Diction I         • Senior recital (full recital required).       • Additional required m       7500:265       Diction I         • Total of 133 credits required for degree.       • Theatre Core — 20 c       7800:145       Movemu         • General Education requirement — 42 credits.       7920:270       Musical         • Core curriculum in music — 30 credits.       • 7800:151       Voice an         • Applied music and performance courses — 40 credits.       7800:221       Musical         • 7500:157       Student Recital (eight semesters)       0       7800:211       Musical         • 7500:257       Student Recital (eight semesters)       0       7800:212       Musical         • 7500:157       Student Recital (eight semesters)       0       7800:421       Musical         • 7500:320       Music courses — 15-16 credits       7900:130       32       Dance Core — 10 cree         • 7500:361       Cond	Voice (completion of 300 level) Piano (completion of 200 level) USIC COURSES — 4 credits. I Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre Stits tion to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:497       Introduction to Musicology       2       7520:x24       Applied         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m       7500:265       Diction I         • Senior recital (full recital required).       • Additional required m       7500:265       Diction I         • Total of 133 credits required for degree.       • Theatre Core — 20 c       7800:145       Movemular         • General Education requirement — 42 credits.       7920:270       Musical         • Applied music and performance courses — 40 credits.       7800:151       Voice an         7500:157       Student Recital (eight semesters)       0       7800:211       Musical         7510:xxx       Music Organization*       8       7800:221       Musical         7500:357       Student Recital (eight semesters)       0       7800:421       Musical         7500:361       Conducting       2       7900:130       322       Dance Core — 10 cree         * Additional required music courses — 15-16 credits       7900:130       Jazz Dai       7900:124       Ballet I:	Voice (completion of 300 level) Piano (completion of 200 level) Usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec Introduction to Ballet I noce I: Introduction to Jazz Dance
7500:371       Analytical Techniques       2         7500:451       Introduction to Musicology       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:497       Independent Study (with approval of applied instructor and advisor)       2         7500:205       Diction I       7500:205       Diction I         7500:301       Facinity (Independent Study (With approval of applied instructor and advisor)       3       Theatre Core — 20 c         7500:157       Student Recital (eight semesters)       0       7800:321       Musical         7500:361       Conducting       8       7800:421       Musical         7500:361       Conducting       7900:124       88le	Voice (completion of 300 level) Piano (completion of 200 level) Usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Theatre History and Literature II Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Tap Tec cicital required – recital ma
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:497       Independent Study (with approval of applied instructor and advisor)       2       7520:x24       Applied         • Electives — 6 credits.       • Additional required m       7500:265       Diction I         • Senior recital (full recital required).       • Additional required m       7500:265       Diction I         • Total of 133 credits required for degree.       • Theatre Core — 20 c       7800:145       Movem         • General Education requirement — 42 credits.       • Reformance courses — 40 credits.       7800:151       Voice ar         • Applied music and performance courses — 40 credits.       7800:321       Musical       7800:421       Musical         • Total of required prior to graduation       8       7800:157       Student Recital (eight semesters)       0       7800:321       Musical         • Additional required music courses — 15-16 credits       7900:124       Reformance       7900:130       Jazz Dar         • Additional required music courses — 15-16 credits       7900:130       Jazz Dar       7900:130       Jazz Dar         • 500:371       Analytical Techniques       2       7900:130       Jazz Dar       7900:130       Jazz Dar         • Additional required music courses — 15-16 credits	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques d Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Tap Tec cital required — recital ma approved operettas and m
7500.371Analytical Techniques27510.1xxChoral E7500.451Introduction to Musicology27520.x24Applied7500.497Independent Study (with approval of applied instructor and advisor)27520.x25Applied• Electives — 6 credits.• Additional required m7500.265Diction I7500.320Musical• Senior recital (full recital required).• Total of 133 credits required for degree.• Additional required m7500.265Diction I• Total of 133 credits required for degree.• Theatre Core — 20 c7800.145Movem• General Education requirement — 42 credits.7920.270Musical• Core curriculum in music — 30 credits.7800.151Voice an• 7500.157Student Recital (eight semesters)07800.321Musical• 7500.320Musical7800.321Musical• 7500.351Conducting7800.421Musical• 7500.351Conducting7900.124Balett I• 7500.351Conducting27900.124• Additional required music courses — 15-16 credits7900.124Balett I• Additional required music courses — 27900.230Jazz Dai• Additional required music and performance27900.124Balett I• 500.361Conducting7900.124Balett I7900.124Balett I• 500.371Analytical Techniques27900.130Jazz Dai• 500.454Orchestration27900.124Balett I• 500.454O	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques d Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Tap Tec cital required — recital ma approved operettas and m
7500.371       Analytical Techniques       2       7510.100       Option         7500.497       Independent Study (with approval of applied instructor and advisor)       2       7520.224       Applied         7500.497       Independent Study (with approval of applied instructor and advisor)       2       7520.225       Applied         • Electives — 6 credits.       • Additional required m       7500.265       Diction       7500.320       Musical         • Performance (emphasis in strings)       • Total of 133 credits required for degree.       • Theatre Core — 20 C       7800.157       Musical         • Core curriculum in music — 30 credits.       7800.157       Student Recital (eight semesters)       0       7800.262       Stage N         7500.371       Applied Music - primary instrument (completion of the 400 level       8       7800.127       Acting I         7500.371       Conducting       2       7900.130       32       Dance Core — 10 cree         7500.371       Conducting       2       7900.130       Jazz Dai         7500.463       Repertore and Pedagogy: String Instruments       3       3       900.132       Jazz Dai         7500.463       Repertore and Pedagogy: String Instruments       3       5       Senior recital (full re         7500.463       Repertore	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits tho to Contemporary Dance Tec Introduction to Jazz Dance noce II: Introduction to Jazz Dance hniques I: Introduction to Jazz Dance child required — recital ma approved operettas and m S.
7500371       Analytical Techniques       2       7510:1xx       Choral E         7500497       Independent Study (with approval of applied instructor and advisor)       2       750:24       Applied         7500497       Independent Study (with approval of applied instructor and advisor)       2       750:25       Applied         Electives — 6 credits.       • Additional required m       750:26       Diction       750:26       Diction         • Senior recital (full recital required).       • Additional required m       750:265       Diction       750:265       Diction         • Total of 133 credits required for degree.       • Total of 133 credits required for degree.       • Theatre Core — 20 c       780:151       Wowical         • Core curriculum in music — 30 credits.       • Additional required for Voice Musical       7800:172       Acting 1         • Applied music and performance courses — 40 credits.       • 7800:172       Acting 1         • Total of 130 credits       • 7800:211       Musical         • Total of conducting       0       7800:421       Musical         • Applied music courses — 15-16 credits       • 7800:421       Musical         • Toto371       Analytical Techniques       2       7900:30       Jazz Da         • Toto372       Oth Century Analysis       2       <	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits thor to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance nce II: Introduction to Jazz Dance ince II: Introduction to Jazz Dance cital required — recital ma approved operettas and m s.
7500.371Analytical Techniques27510 fixsChoral E7500.451Introduction to Musicology27520.x24Applied7500.497Independent Study (with approval of applied instructor and advisor)27520.x24Applied• Electives — 6 credits.• Additional required m7500.255Applied• Senior recital (full recital required).• Additional required m7500.265Diction I• Total of 133 credits required for degree.• Additional required for degree.• Theatre Core — 20 c• Core curriculum in music — 30 credits.• Roon 20 credits.7800.151Voice and or 7920.270• Applied music and performance courses — 40 credits.7800.421Musical Techniques7800.421• Additional required music courses — 15-16 credits7800.421Musical Techniques7900.134Ballet I• Foods 1Conducting27900.130Jazz Da7900.134Ballet I• Foods 2Chochestration27900.134Ballet ITago 20 credit I• Foods 2• Chochestration27900.30Jazz Da• Foods 3Repertoire and Pedagogy: String Instruments3• Senior recital (III re group of songs from a• Foods 3Electronic Music3• Core I credits900.124• Foods 4Orchestration27900.344Tag Tec• Foods 5Electronic Music3• Senior recital (III re group of songs from a• Foods 4Orchestration2• Senior recital (III re group of songs from a <td>Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits stion to Contemporary Dance Tec introduction to Ballet I nece I: Introduction to Jazz Dance nece I: Introduction to Jazz Dance thingues I: Introduction to Tap Tec cital required – recital ma approved operettas and m S.</br></br></br></td>	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training 
7500.371Analytical Techniques27510 fixsChoral E7500.451Introduction to Musicology27520.x24Applied7500.497Independent Study (with approval of applied instructor and advisor)27520.x24Applied• Electives — 6 credits.• Additional required m7500.255Applied• Senior recital (full recital required).• Additional required m7500.265Diction I• Total of 133 credits required for degree.• Additional required for degree.• Theatre Core — 20 c• Core curriculum in music — 30 credits.• Roon 20 credits.7800.151Voice and or 7920.270• Applied music and performance courses — 40 credits.7800.421Musical Techniques7800.421• Additional required music courses — 15-16 credits7800.421Musical Techniques7900.134Ballet I• Foods 1Conducting27900.130Jazz Da7900.134Ballet I• Foods 2Chochestration27900.134Ballet ITago 20 credit I• Foods 2• Chochestration27900.30Jazz Da• Foods 3Repertoire and Pedagogy: String Instruments3• Senior recital (III re group of songs from a• Foods 3Electronic Music3• Core I credits900.124• Foods 4Orchestration27900.344Tag Tec• Foods 5Electronic Music3• Senior recital (III re group of songs from a• Foods 4Orchestration2• Senior recital (III re group of songs from a <td>Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits thor to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance nce II: Introduction to Jazz Dance ince II: Introduction to Jazz Dance cital required — recital ma approved operettas and m s.</br></br></br></td>	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training 
7500:371       Analytical Techniques       2       7510:1xx       Choral E         7500:451       Introduction to Musicology       2       7520:x24       Applied         7500:451       Independent Study (with approval of applied instructor and advisor)       2       7520:x25       Applied         Electives — 6 credits.       Additional required memory       2       7500:256       Diction 1         Senior recital (full recital required).       Additional required memory       2       7600:266       Diction 1         Performance (emphasis in strings)       Total of 133 credits required for degree.       7600:145       Movem         General Education requirement — 42 credits.       7900:151       Voice at 7800:151       Voice at 7800:151       Voice at 7800:122       Acting in 7800:262       Stage N         7500:157       Student Recital (eight semesters)       0       7800:321       Musical 7800:321       Mu	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques d Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre adits tion to Contemporary Dance Tec introduction to Ballet I nice I: Introduction to Jazz Dance nice II: Introduction to Jazz Dance thingues I: Introduction to Tap Tec icital required – recital ma approved operettas and m s. <b>is in woodwinds</b> ) equired for degree. quirement — 42 credits.
7500.371       Analytical Techniques       2       7510.1xx       Choral E         7500.451       Introduction to Musicology       2       7510.1xx       Choral E         7500.451       Introduction to Musicology       2       7520.x24       Applied         1       Electives — 6 credits.       •       Additional required music       2         •       Senior recital (full recital required).       *       7500.265       Diction <b>Performance (emphasis in strings)</b> •       Theatre Core — 20 c       7800.320       Musical         •       Core curriculum in music — 30 credits.       *       7800.112       Acting 1         •       Applied music and performance courses — 40 credits.       7800.221       Musical         *       Total of 132 credits required music organization       8       7800.421       Musical         *       Applied music and performance courses — 40 credits.       7800.421       Musical       7800.421       Musical         *       Applied music organization       8       7800.421       Musical       7800.421       Musical         *       Sequere diverse primary instrument (completion of the 400 level       *       7900.130       Jazz Da         *       Sequired music courses — 15-16 credits	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques ad Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits ation to Contemporary Dance Tec Introduction to Ballet I noce I: Introduction to Jazz Dance chiniques I: Introduction to Jazz Dance cital required – recital ma approved operettas and m s. <b>bis in woodwinds)</b> equired for degree. quirement — 42 credits. usic — 30 credits.
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7500.371       Analytical Techniques       2         7500.451       Introduction to Musicology       2         7500.451       Introduction to Musicology       2         7500.451       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Student Required for degree.       -         6       General Education requirement — 42 credits.       7800.125         7500.157       Student Recital (eight semesters)       0         7500.157       Student Recital (eight semesters)       0         7500.351       Conducting       2         7500.351       Conducting       2         7500.351       Conducting       2         7500.353       Electoric Music       3         7500.353       Electoric Music       3         7500.353       Electoric Music       3         7500.353       Electoric Music       3         7500.353       Electorice Music       3 <t< td=""><td>Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques d Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre adits tion to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance ince I: Introduction to Jazz Dance ince I: Introduction to Jazz Dance ince I: Introduction to Jazz Dance ince II: Introduction to Tap Tec ricital required – recital ma approved operettas and m s. <b>is in woodwinds</b>) equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters)</td></t<>	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques d Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre adits tion to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance ince I: Introduction to Jazz Dance ince I: Introduction to Jazz Dance ince I: Introduction to Jazz Dance ince II: Introduction to Tap Tec ricital required – recital ma approved operettas and m s. <b>is in woodwinds</b> ) equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters)
7500.371       Analytical Techniques       2         7500.451       Introduction to Musicology       2         7500.451       Introduction to Musicology       2         7500.451       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Independent Study (with approval of applied instructor and advisor)       2         7500.457       Student Recital (eight semesters)       0         7500.350       Student Recital (eight semesters)       0         7500.351       Conducting       7         7500.351       Conducting       2         7500.351       Conducting       2         7500.351       Conducting       2         7500.353       Electronic Music       2         7500.353       Electronic Music       2         7500.353       Electronic Music       2         7500.353       Electronic Music       3         7500.353       Electronic Music       3 </td <td>Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits action to Contemporary Dance Tec introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Tap Tec cital required – recital ma approved operettas and m S. dis in woodwinds) equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters) Drganization*</td>	Voice (completion of 300 level) Piano (completion of 200 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits action to Contemporary Dance Tec introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Tap Tec cital required – recital ma approved operettas and m S. dis in woodwinds) equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters) Drganization*
7500.371Analytical Techniques27500.451Introduction to Musicology27500.451Introduction to Musicology27500.451Independent Study (with approval of applied instructor and advisor)27500.451Independent Study (with approval of applied instructor and advisor)27500.457Independent Study (with approval of applied instructor and advisor)27500.457Independent Study (with approval of applied instructor and advisor)27500.457Student Required for degree6 General Education requirement — 42 credits7500.157Student Recital (eight semesters)07500.351Context y and the second regulation of the 400 level-7500.351Conducting27500.351Conducting-7500.351Conducting27500.351Conducting27500.351Conducting27500.351Conducting27500.351Conducting27500.351Conducting27500.351Conducting27500.351Conducting27500.352Cubernize and Pedagogy: String Instruments37500.351Electoric Music37500.352Electoric Musics37500.353Repertore Advisor)27500.353Repertore Advisor)27500.353Repertore Maysis37500.355Electoric Music37500.355Electoric Music3<	Voice (completion of 300 level) Piano (completion of 200 level) Uusic courses — 4 credits. I Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec Introduction to Ballet I noce I: Introduction to Jazz Dance Introduction to Ballet I noce I: Introduction to Tap Tec cital required – recital ma approved operettas and m s. <b>is in woodwinds)</b> equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters) Diganization*
7500.371       Analytical Techniques       2       7510.10x       Choral E         7500.451       Introduction to Musicology       2       7510.10x       Choral E         7500.451       Introduction to Musicology       2       7520.x24       Applied         9       Electives — 6 credits.       -       Additional required m       7500.262       Applied         •       Senior recital (full recital required).       -       7500.262       Diction 1       7500.265       Diction 1 <b>Performance (emphasis in strings)</b> •       Theatre Core — 20 C       7200.145       Movem       7200.145       Musical Technical (eight semesters)       0       7200.145       Musical Technical (eight semesters)       0       7800.321       Musical 7600.321       Musical 7600.321       Musical 7600.321       Musical 7600.321       Musical 7600.321       Musical 7600.321       Musical 7600.421       Musical	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits action to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Tay Tec cital required – recital ma approved operettas and m s. <b>is in woodwinds)</b> equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 400 Recital (eight semesters) Drganization* Music - primary instrument (com quired piro to graduation)
7500.371       Analytical Techniques       2       7510 tox       Choral E         7500.451       Introduction to Musicology       2       7510 tox       Choral E         7500.451       Introduction to Musicology       2       7520.x24       Applied         9       Electives — 6 credits.       Additional required m       7500.265       Diction I         9       Senior recital (full recital required).       7500.265       Diction I         9       Total of 133 credits required for degree.       7200.145       Theatre Core — 20 c         9       Core curriculum in music — 30 credits.       7800.211       Yousal         7500.157       Student Recital (eight semesters)       0       7800.321       Musical Techniques         7500.321       Analytical Techniques       2       7900.130       Haler I:         7500.322       Conducting       2       7900.130       Haler I:         7500.321       Conducting       2       7900.130       Haler I:         7500.322       Conducting       2       7900.130       Haler I:         7500.321       Conducting       2       7900.130       Haler I:         7500.321       Conducting       2       7900.130       Haler I:         7	Voice (completion of 300 level) Piano (completion of 200 level) Uusic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits etion to Contemporary Dance Tec Introduction to Ballet I nce I: Introduction to Jazz Dance nce II: Introduction to Jazz Dance thingues I: Introduction to Taz Tence introduction to Tazz Dance cital required – recital ma approved operettas and m s. <b>is in woodwinds)</b> equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 400 Recital (eight semesters) Organization* Music - primary instrument (com quired pior to graduation) nusic courses — 14-15 cre
7500.371       Analytical Techniques       2       7510.1xx       Choral E         7500.451       Introduction to Musicology       2       7520.x24       Applied         7500.451       Introduction to Musicology       2       7520.x24       Applied         • Electives — 6 credits.       •       Additional required m       7500.265       Dictor         • Senior recital (full recital required).       7500.265       Dictor       7500.265       Dictor <b>Performance (emphasis in strings)</b> •       •       Additional required m       7500.265       Dictor         • Core curriculum in music — 30 credits.       •       7800.151       Voice       7800.262       Streen - 20 c         7500.157       Student Recital (eight semesters)       0       7800.321       Musical         7500.371       Analytical Techniques       2       7900.130       Hausica         7500.371       Analytical Techniques       2       7900.130       Jacz Darce Core - 10 credits         7500.372       Coho Londing       2       7900.130       Jacz Darce Core - 10 credits       7900.130       Jacz Darce Core - 10 credits         7500.371       Analytical Techniques       2       7900.130       Jacz Darce Core - 10 credits       7900.130       Jacz Dare	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec Introduction to Ballet I nore I: Introduction to Jazz Dance Ince I: Introduction to Jazz Dance Introduction to Ballet I noce I: Introduction to Tap Tec cicital required – recital ma approved operettas and m s. <b>is in woodwinds)</b> equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters) Drganization * Music - primary instrument (com iquired prior to graduation) music courses — 14-15 cre ch in Music
7500.371       Analytical Techniques       2       7510 tox       Choral E         7500.451       Introduction to Musicology       2       7510 tox       Choral E         7500.451       Introduction to Musicology       2       7520.x24       Applied         • Electives — 6 credits.       • Additional required m       7500.265       Diction I         • Senior recital (full recital required).       7500.265       Diction I <b>Performance (emphasis in strings)</b> • Total of 133 credits required for degree.       • Theatre Core — 20 c         • Core curriculum in music — 30 credits.       7800.145       7800.145         • Applied music and performance courses — 40 credits.       7800.221       Musical Techniques         7500.351       Student Recital (eight semesters)       0       7800.321       Musical Techniques         7500.371       Analytical Techniques       2       7900.130       Haster Network         7500.372       20th Century Analysis       2       7900.130       Haster Network         7500.371       Analytical Techniques       2       7900.130       Haster Network         7500.372       20th Century Analysis       2       7900.130       Haster Network         7500.372       20th Century Analysis       2       7900.130	Voice (completion of 300 level) Piano (completion of 200 level) usic courses — 4 credits. Theatre History and Literature I redits ent Training Theatre Dance Techniques and Diction Makeup Theatre History and Literature II Theatre Production or Musical Theatre edits tion to Contemporary Dance Tec Introduction to Ballet I nore I: Introduction to Jazz Dance Ince I: Introduction to Jazz Dance Introduction to Ballet I noce I: Introduction to Tap Tec cicital required – recital ma approved operettas and m s. <b>is in woodwinds)</b> equired for degree. quirement — 42 credits. usic — 30 credits. erformance courses — 40 Recital (eight semesters) Drganization * Music - primary instrument (com iquired prior to graduation) music courses — 14-15 cre ch in Music

\* Eight semesters in a major conducted ensemble

7510:108 Opera Workshop 2 7500:265 Diction 1 2 7500:266 Diction II 2 7500:365 Song Literature 2 Foreign Language Requirement --- 12 credits 3550:101 4 Italian 4 3530:101 German 3520:101 French Senior recital (full recital required). Electives 6 credits. rformance (emphasis in voice/musical theatre) Total of 142 credits required for degree. General Education requirement — 42 credits. Core curriculum in music — 18 credits. 2 7500:101 Intro to Music Theory\*\* 7500:104 Class Piano I\*\* 2 Class Piano II\*\* 7500:105 2 7500:151 Theory i 3 7500:152 Theory II 3 7500:154 Music Literature ! 2 7500:155 Music Literature I 2 7500:141,2,3,4 Ear Training/Sight Reading I, II, II, IV 4 Keyboard Harmony | 2 7500:261 2 7500:262 Keyboard Harmony II Applied music and performance courses — 44 credits. 0 7500:157 Student Recital (eight semesters) 7510:108 Opera Workshop (six semesters) 6 7510:1xx Choral Ensembles (by audition) 2 7520:x24 Applied Voice (completion of 300 level) 32 7520:x25 Applied Piano (completion of 200 level) 4 Additional required music courses — 4 credits. 7500:265 2 Diction I Musical Theatre History and Literature I 2 7500:320 Theatre Core - 20 credits 7800:145 Movement Training 3 or 7920:270 Musical Theatre Dance Techniques 3 7800:151 Voice and Diction 3 7800:172 Acting | 3 Stage Makeup 7800:262 3 7800:321 Musical Theatre History and Literature II 2 Musical Theatre Production 7800:421 3 7800:475 Acting for Musical Theatre 3 Dance Core - 10 credits 2 7900:119 Introduction to Contemporary Dance Techniques I 7900:124 Ballet I: Introduction to Ballet I 2 7900:130 Jazz Dance I: Introduction to Jazz Dance I 2 7900:230 Jazz Dance II: Introduction to Jazz Dance II 2 Tap Techniques I: Introduction to Tap Techniques I 2 7900:144 Senior recital (full recital required - recital may include a maximum of one group of songs from approved operettas and musical theatre works). Electives - 4 credits. rformance (emphasis in woodwinds) 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 0 Student Recital (eight semesters) 8 7510:xxx Music Organization\* . . . . . . . . .

Credits

2 2

2

32

2 2

7520:xxx	Applied Music - primary instrument (completion of the 400 level is required prior to graduation)
Additional requ	uired music courses — 14-15 credits
7500:325	Research in Music
7500:361	Conducting

Eight semesters in a major conducted ensemble

7500:371	Analytical Techniques	Credits 2	7500:471	Counterpoint	Crea 2
7500:454	Orchestration	2	7500:497	Independent Study (with approval of applied instructor and advisor	
7500:471 7500:497	Counterpoint	2 2	7500:353	Electronic Music (As an alternative to 7500:471 Counterpoint)	3
7500:497	Independent Study (with approval of applied instructor and advisor) Electronic Music	2	• Electives F	•	
/000.000	(As an alternative to 7500:452 Composition or	Ũ	Electives 5     Senior recit	e creats.	
	7500:454 Orchestration or 7500:471 Counterpoint)				
	- 5-6 credits.		History and I		
Senior recita	al (full recital required).			3 credits required for degree.	
erformance	(emphasis in organ)			ucation requirement 42 credits.	
Total of 131	credits required for degree.		<ul> <li>Core curric</li> </ul>	ulum in music 30 credits.	
General Edu	ucation requirement — 42 credits.		<ul> <li>Applied mu</li> </ul>	isic and performance courses 24 credits.	
Core curricu	ulum in music (7500:262 not required) — 28 credits.		7500:157	Student Recital (eight semesters)	0
	sic and performance courses — 40 credits.		7510:xxx 7520:xxx	Music Organization* Applied Music primary instrument (completion of the 200 level	a
		0		is required for graduation)	16
7500:157 7510:xxx	Student Recital (eight semesters) Music Organization*	8	<ul> <li>Additional r</li> </ul>	nusic courses 14-15 credits.	
7520:xxx	Applied Music - primary instrument (completion of the 400 level	•	7500:325	Research in Music	2
	is required prior to graduation)	32	7500:361	Conducting	2
Additional re	equired music courses 15 credits		7500:371	Analytical Techniques	2
7500:263	Service Playing for Organists (in lieu of 7500:262)	2	7500:451	Introduction to Musicology	2
7500:203	Conducting	2	7500:454 7500:455	Orchestration Advanced Conducting: Instrumental	2
7500:371	Analytical Techniques	2	7500:353	Electronic Music	3
7500:456	Advanced Conducting: Choral	2		(As an alternative to 7500:452 Composition)	-
7500:462	Repertoire and Pedagogy: Organ	3	<ul> <li>Special stu</li> </ul>	dy electives in music 8 credits.	
7500:471 7500:497	Counterpoint Independent Study (Choral Arranging)	2 2	-	,	
		2	Graduate-leve permission to	I courses are available to those undergraduate upperclassmen who qua register	alify for s
Electives 6	credits.		7500:497	Independent Study in Music	1-2
Senior recita	al (full recital required).		7500:601	Choral Literature	2
	(		7500:621	Music History Survey: Middle Ages and Renaissance	2
	(emphasis in percussion)		7500:622	Music History Survey: Baroque Era	2
	credits required for degree.		7500:623	Music History Survey: Classical and Romantic Eras	2
lotal of 132				Music History Suprov: Twoptieth Century	
	idies — 42 credits.		7500:624	Music History Survey: Twentieth Century	2
General Stu			7500:624 <ul> <li>Cognate ar</li> </ul>	ea such as history, language or other arts — 8 credits	2
General Stu Core curricu	idies — 42 credits.		7500:624 • Cognate ar • Electives –	ea such as history, language or other arts — 8 credits – 6-7 credits	
General Stu Core curricu Applied mu	idies — 42 credits. Jlum in music — 30 credits. sic and performance courses — 40 credits.	0	7500:624 • Cognate ar • Electives – • A reading	ea such as history, language or other arts — 8 credits – 6-7 credits proficiency equal to the second year of undergraduate	study
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#### Jazz Studies\*\*

- Total of 135 credits required for degree.
- General Education requirement 42 credits.
- Core curriculum in music 30 credits.

#### Additional music courses — 6-7 credits.

			Credits
	7500:361	Conducting	2
	7500:371	Analytical Techniques	2
	7500:454	Orchestration	2
٠	Additional jazz	courses — 21 credits.	
	7500:210,1	Jazz Improvisation I, II	4
	7500:212	The Music Industry: A Survey of Practices and Opportunities	2
	7500:307	Techniques of Stage Band 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.
- 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.
- Applied music and performance courses 24-26 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
7510:104	Marching Band (as prerequisite for 7500:205)	0
	Two semesters. Instrumental majors excepting bowed strings.	
7510:xxx	Music Organization*	8
7520:xxx	Applied Music primary instrumental (completion of the 300 level	
	is required prior to student teaching)	16
	7500:457 7510:104 7510:xxx	7500:457         Senior Recital (one-half recital during 12 months prior to graduation, but not during the semester of student teaching)           7510:104         Marching Band (as prerequisite for 7500:205) Two semesters. Instrumental majors excepting bowed strings.           7510:xxx         Music Organization*           7520:xxx         Applied Music primary instrumental (completion of the 300 level

Minimum vocal, keyboard and conducting proficiencies must be attained before assignment to student teaching.

#### Additional music courses — 10 credits.

	7500:254	String Instruments I	2
	7500:297	Introduction to Music Education	2
	7500:340	Teaching General Music	2
	7500:342	Elementary Instrumental Music	2
	7500:361	Conducting	2
•	Additional mus	sic courses by major:	
	Vocal and Keyboa	rd 15 credits	
	7500:265	Diction for Singers	2

7500:265	Diction for Singers	
7500:341	Curricular Innovations in General Music	
7500:344	Secondary Choral Music Methods	
7500:363	Intermediate Choral Conducting	
7500:456	Advanced Conducting: Choral	
	Approved Electives	

\*\*Acceptance in the Jazz Program is by permission of the coordinator of Jazz Studies

	•			
Instrumental (Guitar and Keyboard Majors see notation below+) — 15 credits				
7500:205	Marching Band Organization and Technique*	Cre <b>g</b> its		
7500:276	Trumpet and French Horn Methods®	1		
7500:277	Clarinet and Saxophone Methods®	1		
7500:307	Techniques of Stage Band Performance and Direction	2		
7500:343	Secondary Instrumental Music	2		
7500:345	Low Brass Methods®	1		
7500:346	Flute/Double Reeds Methods@	1		
7500:454	Orchestration	2		
7500:455	Advanced Conducting: Instrumental	2		
7500:458	Percussion Methods®	1		
Vocal (Guitar a	and Keyboard Majors see notation below+) — 15 credits			
7500:265	Diction for Singers	2		
7500:340	Secondary Choral Music Methods	3		
7500:341	Curricular Innovations in General Music	2		
7500:363	Intermediate Choral Conducting	2		
7500:456	Advanced Conducting: Choral	2		
7500:xxx	Applied Voice (guitar/keyboard majors)			
7500:xxx	Applied Keyboard (voice majors only)	2		
	Elective	1		

- Professional Education (Including Student Teaching and 7500:492 Senior Seminar) — 25 credits.
- One-half recital during 12 months prior to graduation but not during the semester of student teaching except with special permission of Area Coordinator.
- Minimum vocal, keyboard and conducting proficiencies must be attained before assignment to student teaching.
- Instrumental-Band majors must have two semesters of 7510:104 Marching Band as a prerequisite for 7500:205.

## 7600: Communication

#### Requirements for transferring into the School of Communication

Completion of 7600:102, 7600:115, 3300:111 or 2020:121, 3300:112 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's math requirement include 3450:145 (College Algebra) or 3470:260 (Basic Statistics) or their equivalents. The math requirement is not satisfied by 3450:289 (Math for Fine and Applied Arts).

#### 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	
Concentration in business and organizational communication, interpersonal and public communication, or mass media communication as described in tracks			
plus depart	mental electives:	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
•	Communication Core	10
•	Area of specialization as described below plus	
	School of Communication electives	36
	University electives	26
•	Total	128

Guitar and keyboard music education majors may focus on either intrumental or vocal tracks. Please
refer to the Memo of Agreement which is available from music advisers for specific requirements in
each discipline.

# Bowed string majors are not required to take this course.

Ø Methods classes must be taken in sequence.

<sup>\*</sup> Eight semesters in a major conducted ensemble

#### 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**

		Credits
٠	Communication Core	10

• Major: Choice of Organizational Communication or Public Relations track as follows:

#### **Public Relations Track:**

Major area: (r	Major area: (required)			
7600:201	Newswriting	3		
7600:280	Media Production Techniques	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		
Communicati	on Total	46		
Organization	al Communication Track:			
Major area: (re	equired)			

9

46

3

3

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	7600:226	Interviewing
	7600:235	Interpersonal Communication
	7600:344	Group Decision Making
	7600:345	Business & Professional Speaking
	7600:435	Communication in Organizations
	Choose 12 credits	from one of the following list:
	7600:201	Newswriting
	7600:245	Argumentation
	7600:252	Persuasion
	7600:303	Public Relations Writing
	7600:309	Public Relations Publications
	7600:325	Intercultural Communication
	7600:436	Analyzing Organizational Communication
	7600:437	Training Methods in Communication
	7600:454	Theory of Group Processes
	Communication E	lectives: (not used for above requirements)
	Communication Te	otal
In	ternerconal	and Public Communication

#### Interpersonal and Public Communication

And choose one course (3 credits):

Radio Production

Television Production

7600:282

7600:283

	Required courses		9
	7600:235	Interpersonal Communication	3
	7600:245	Argumentation	3
	7600:346	Advanced Public Speaking	3
	Select a total of n	ine credits from the following list:	
	7600:225	Module: 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 E	lectives: (not used for above requirements)	12
	Communication 1	otal	46
N	lass Media-	-Communication	
	Core requirem	onto	
•	Core requirem		
٠	Major: Choice of	Electronic Media or News Track as follows:	
E	ectronic Medi	a Track:	
	Required courses		24
	7600:280	Media Production Techniques	3
	7600:387	Radio Television Writing	3
	7600:388	History and Structure of Broadcasting	3
	7600:484	Regulations in Mass Media	3

		Credits	
7600:362	Video Camera and Recording	3	
7600:368	Basic Audio and Video Editing	3	
And choose f	And choose five courses (15 credits):		
7600:270	Voice Training for Media	3	
7600:282	Radio Production	3	
7600:283	Television Production	3	
7600:302	Broadcast Newswriting	3	
7600:362	Video Camera and Recording	3	
7600:368	Basic Audio and Video Editing	3	
7600:375	Communication Technology and Change	3	
7600:383	Advanced Television Production	3	
7600:395	Radio Station Programming and Operations	3	
7600:396	Television Station Programming and Operations	3	
7600:462	Advanced Media Writing	3	
7600:468	Advanced Audio and Video Editing	3	
7600:486	Broadcast Sales and Management	3	
7600:493	Electronic Media Production	3	
Communicati	on Electives: (not used for above requirements)	6	
Communicati	on Total	46	
News Track:			
Required Nev	v\$ courses	12	
7600:201	Newswriting	3	
7600:206	Feature Writing	3	
7600:301	Advanced Newswriting	3	
7600:484	Regulations in Mass Media	3	
And choose o	ne course (3 credits):		
7600:302	Broadcast News Writing	3	
7600:306	Magazine Writing	3	
And choose to	wo courses (6 credits):		
7600:282	Radio Production	3	
7600:283	TV Production	3	
7600:304	Editing	3	
7600:307	Commercial Electronic Publishing	3	
And choose o	ne course (3 credits):		
7600:410	Journalism Management	3	
7600:486	Broadcast Sales and Management	3	
And:	And:		
Communication	on Electives: (not used for above requirements)	12	
Communicatio	on Total	46	

## Bachelor of Arts (2+2) with C&T College (Computer Programming Technology)

## Communication Major Communication Core · Area of specialization:

	Business and (	Organizational Communication and Communication electives	36
Tag in Computer Programming			14
	Total		
	General Educ	ation requirement	42
		ation requirement	42
	Other Require	ed Courses for the Associate Degree	33
	University Ele	ctives	0
	Total Credits f	or Bachelor's Degree	135
	XXXXXXXXX	Natural Science	8
	XXXX:XXX	Area Studies/Cultural Diversity requirement	4
	7600:105	Introduction to Public Speaking	3
		Of	
	7600:106	Effective Oral Communication	3
	5540:110	Physical Education	1
	3300:112	English Composition II	3
	3400:210	Humanities in the Western Tradition I	4
	XXXX:XXX	Humanities requirement	6
		(see adviser for options)	
	2020:121	English	4
	2020:222	Technical Report Writing	3
	2030:141,2	Math for Data Processing I, II	7
	2040:240	Human Relations	3
	2040:247	Survey of Basic Economics	3
	2420:211,2	Basic Accounting I, II	6
	2440:xxx	Computer Programming Electives	6
	2420:104	Introduction to Business	3
	2440:120	Computer and Software Fundamentals	2
	2440:121	Introduction to Programming Logic	2
	2440:131	Introduction to Programming	2
	2440:132	Assembler Programming	3

10

		Credits
2440:133	Structured Cobol Programming	2
2440:234	Advanced Cobol Programming	3
2440:239	RPG II	2
2440:241	Systems Analysis and Design	3
2440:251	Computer Applications Projects	5
2440:254	Job Control Language	1
7600:xxx	Communication Electives	9
7600:102	Survey of Mass Communication	3
7600:115	Survey of Communication Theory	3
7600:201	Newswriting	3
7600:235	Interpersonal Communication	3
7600:245	Argumentation	3
7600:280	Media Production Techniques	3
7600:282	Radio Production	3
7600:283	Television Production	3
7600:309	Public Relations Publications	3
7600:344	Group Decision Making	3
7600:345	Business and Professional Speaking	3
7600:384	Communication Research	3
7600:387	Radio and TV Writing	3
7600:388	History and Structure of Broadcasting	
	or	
7600:464	Corporate Video Management	3
7600:403	Public Relations Strategies	3
7600:435	Communication in Organizations	3
	Additional production course	3
	Communication electives	15

# 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. After completing the appropriate prerequisite course work, students with a grade-point average of 3.0 in major field course work and a grade of "B" or better in the prerequisite course may elect to choose the clinic option. 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 advisers. 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

<ul> <li>Core in Spe</li> </ul>	ech-Language Pathology and Audiology:	Credits
7700:101	Beginning Sign Language I	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
Clinical Optio	n	

· Add the following Clinical Practica to the above requirements.

	0	
7700:350	Entrance Practicum	3
7700:351	SLP Screening Practicum	2
7700:451	Audiology Screening Practicum	2

#### Non-Clinical Option

 To the University electives and core curriculum, add the following for a total of at least 4 credits:

7700 400	Paul via Circlere en ll	3
7700:102	Beginning Sign Language II	3
7700:121	Psychosocial Aspects of Deafness	2
7700:201	Intermediate Sign Language	3
7700:202	Advanced Sign Language	3
7700:222	Survey of Deaf Culture in America	2
7700:350	Entrance Practicum	3
7700:481	Special Projects: Communicative Disorders	2-4

# 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). The Bachelor of Arts in Social Work degree does not require a language.

Curricula have been developed (2+2 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 course work.

There are 2+2 arrangements between this program and both the Associate in Community Services Technology and the Associate of Criminal Justice Technology programs 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.

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 related disciplines for the foreign languages (see adviser for specific courses).

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 Prerec	uisites 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 for Social Workers I	3
•	Social Work m	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 for Social Workers II	3
	7750:440	Social Work Research I	3
		Note: students are strongly encouraged to complete their math requirement before enrolling in 7750:440 Social Work Research !	
	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
	7750:4×x	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.

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 2+2 programs must complete:

## Bachelor of Arts (2+2) with C&T

[Community Services Technology (Social Service Emphasis)]

Bachelor of Arts (2+2) with C&T (Criminal Justice Technology)

Bachelor of Arts (2+2) with Wayne College [Social Services Technology (Social Service Emphasis)]

Bachelor of Arts (2+2) with Stark Tech [Human and Social Services]

#### **Bachelor of Arts/Social Work**

· Completion of the General Education requirement, 42 credits including.

			Credits
	3100:103	Natural Science Biology/Lab .	4
	3850:100	Introduction to Sociology	4
•	Course Prerec	uisites 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 for Social Workers	3
•	Social Work m	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 for Social Workers II	3
	7750:440	Social Work Research I Note: students are strongly encouraged to complete their math requirement before enrolling in 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

#### 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 2+2 programs must complete:

#### Bachelor of Arts/Social Work (2+2) with C&T [Community Services Technology (Social Service Emphasis)]

Bachelor of Arts/Social Work (2+2) with C&T (Criminal Justice Technology)

Bachelor of Arts/Social Work (2+2) with Wayne College [Social Services Technology (Social Service Emphasis)]

Bachelor of Arts/Social Work (2+2) 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.

Core curricul	um:	Credits	
7800:100	Experiencing Theatre	3	
7800:106	Introduction to Scenic Design	3	
7800:107	Introduction to Stage Costume Techniques	3	
7800:145	Movement for Actors	3	
7800:151	Voice for the Stage	3	
7800:172	Acting I	3	
7800:230	Development of Theatre: History of Theatre	3	
7800:262	Stage Make-up	3	
7800:265	Basic Stagecraft I	3	
7800:271	Directing	3	
7800:330	Development of Theatre: Dramatic Literature I	3	
7800:430	Development of Theatre: Dramatic Literature II	3	
7810:100-400	Production Design/Technical Laboratory	4	

- Theatre Electives 23 credits (Consult academic adviser).
- General Electives 9 credits (Consult academic adviser).
- All candidates for the B.A. will be required to earn at least eight credits of 7810 laboratory work. At least four of these credits must be in 7810 Production Laboratory. Majors 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/criticism 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.

- General Education Requirement 42 credits.
- Foreign Language 14 credits.
- Theatre 42 credits.
- · Required Theatre Arts Courses:

- Required Production/Performance Courses (7810:) 6 credits.
- Theatre Electives (with approval of advisor) 9 credits.
- Electives 30 credits.
- Minimum Semester Hours Required 128 credits.

#### Musical Theatre

- General Education requirement 42 credits.
- Theatre 41 credits.

•	Theatre Core Courses — 23 credits:			
	7800:107 7800:145 7800:151 7800:172 7800:321 7800:330 7800:430 7800:475	Introduction to State Costuming Movement for Actors Voice and Diction Acting I Musical Theatre History & Literature II Dramatic Literature I Dramatic Literature II Acting for Musical Theatre	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
•	Theatre Option	n 21 credits:		
	7800:100 7800:230 7800:265 7800:271 7800:351 7800:373	Experiencing Theatre History of Theatre Basic Stagecraft I Directing I Advanced Voice and Movement Acting II	(a) (a) (a) (a) (a)	
•	Dance Core Co	ourses — 13 credits:		
	7900:119 7900:124 7900:144 7900:130 7900:230 7920:270	Modern I: Intro to Modern Dance I Ballet I: Intro to Ballet I Tap Techniques I: Intro to Tap Tech I Jazz Dance I: Intro Jazz Dance I Jazz Dance II: Intro Jazz Dance II Musical Theatre Dance Technique		
•	Music Core Co	burses — 17 credits:		
	7500:101 7500:320 7510:108 7520:024 7520:025	Intro to Music Theory Music Theatre History and Literature I Opera Workshop Class/Applied Voice (4 semesters) (must include 1 semester of Applied Voice) Class/Applied Piano (2 semesters)	1 2 2	
•	Production/Pe	rformance Lab — 6 credits.		

- General Electives 11 credits.
- Minimum Semester Hours Required 130 credits.

# 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:

Every student must pass a sophomore jury (7910:200) in ballet and modern technique at the completion of two years of study to be admitted to upper-division standing in the dance area. Students must complete one full year of Ballet VIII: Advanced Technique and Performance Styles, and must be enrolled in ballet technique class each semester.\*

General Education requirement — 42 credits.

•	Required dance courses:		Credits
	7900:115	Dance as an Art Form (Bypass competency exam available)	2
	7920:116,7	Physical Analysis for Dance I, II	4
	7920:122, 222	Ballet V: Intermediate Principles/	
		Ballet VI: Advanced Intermediate Technique*	20
	7920:228	Modern V: Intermediate Modern Dance A	3
	7920:229	Modern VI: Intermediate Modern Dance B	3
	7920:316,7	Choreography I, II	4
	7920:320	Dance Notation	2
	7920:321	or Rhythmic Analysis	2
	7920:322, 422	Ballet VII: Principles of Advanced Technique/	-
		Ballet VIII: Advanced Technique and Performance Styles*	20
	7920:328	Modern VII: Advanced Modern Dance A	3
	7920:329	Modern VIII: Advanced Modern Dance B	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
٠	Electives (with	n approval of adviser)	7
٠	7910:200	Sophomore Jury	0
<ul> <li>All candidates for the B.F.A. will be required to earn at least five credit 7910: Dance Organizations, one of which must be 7910:112 Dance Produc Ensemble.</li> </ul>			
	7910:101	Classical Ballet Ensemble	1
	7910:102	Character Ballet Ensemble	1
	7910:103	Contemporary Dance Ensemble	1
	7910:104	Jazz Dance Ensemble	1
	7910:105	Musical Comedy Ensemble	1
	7910:106	Opera Dance Ensemble	1

7910:107	Experimental Dance Ensemble	1
7910:108	Choreographers' Workshop	1
7910:109	Ethnic Dance Ensemble	1
7910:110	Period Dance Ensemble	1
7910:111	Touring Ensemble	1
7910:112	Dance Production Ensemble	1
	Total Dance Curriculum minimum	79

#### **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.

Every student must pass a sophomore jury in ballet, modern, tap, and jazz technique at the completion of two years of study to be admitted to upper-division standing in the dance area. All students are required to study dance technique every semester they are enrolled and must be promoted from Ballet Technique VI: Advanced Intermediate Technique for graduation.

General Education requirement and foreign language\*\* — 56 credits.

<sup>·</sup> Required dance courses:

nequired da		Credits
7900:115	Dance as an Art Form	2
7920:116, 7	Physical Analysis for Dance I, II	4
7920:122, 222		
	Ballet VI: Advanced Intermediate Technique	20
7920:228	Modern V: Intermediate Modern Dance A	3
7920:316, 7 7920:320	Choreography I, II Dance Notation	4
/920:320	Or Or	
7920:321	Rhythmic Analysis	2
7920:361	Learning Theory for Dance	2
7920:362	Instructional Strategies for Dance	2
7920:471	Senior Seminar	1
Choose one	of 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
Choose a m minimum of	ninimum of one from each category as dance nine credits	electives for a
Category A		
7920:229	Modern VI: Intermediate Modern Dance B	3
7920:229	Modern VII: Advanced Modern Dance A	3
7920:329	Modern VIII: Advanced Modern Dance B	3
Category B	less Deves Chiles	0
7900:351	Jazz Dance Styles	2 2
7900:451	Advanced Jazz Dance Styles	2
Category C		
7900:145	Beginning Tap Styles	2
7920:246	Intermediate Tap Styles	2
Choose one	category D, E, or F for a total of four credits:	
Category D		
7920:416	Choreography III	2
7920:417	Choreography IV	2
Category E*		
7920:431	Dance History: Prehistory to 1661	2
7920:432	Dance History: 1661 - Diaghilev Era	2
7920:433	Dance History: 20th Century	2
Category F		
	Comings and Field Experience in Dense Education	2
7920:461 7920:462	Seminar and Field Experience in Dance Education Professional Issues in Dance Education	2 2
		-
/910:200 50	phomore Jury (0 credits)	
	es for the B.A. will be required to earn at leas	
Ensemble.	Organizations, one of which must be 7910:112 D	ance Production
7910:101	Classical Ballet Ensemble	1
7910:102	Character Ballet Ensemble	1
7910:103	Contemporary Dance Ensemble	1
7910:104	Jazz Dance Ensemble	1
7910:105	Musical Comedy Ensemble	1
7910:106 7910:107	Opera Dance Ensemble Experimental Dance Ensemble	1
7910:107	Choreographers' Workshop	1
/010.100	one ogiaphora workanop	1

7910:109 Ethnic Dance Ensemble 7910:110 Period Dance Ensemble 1 7910:111 Touring Ensemble .1 7910:112 Dance Production Ensemble 58 Total Dance Curriculum General Electives 16

Students are required to complete 40 credits of ballet technique for graduation regardless of level originally placed in at time of admission

\*\* Sign language may be taken in place of a foreign language.

Credits

<sup>\*</sup> Dance History course taken for requirement does not fulfill this elective

#### 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.

#### • General Education requirement --- 42 credits

Dance Courses:		Credits	
	7900:115	Dance as an Art Form	2
	7900:130	Jazz Dance I: Introduction to Jazz Dance i	2
	7900:144	Tap Technique I: Introduction to Tap Technique I	2
	7900:145	Beginning Tap Styles	2
	7900:219	Modern III: Intermediate Beginner A	2
	7900:220	Modern IV: Intermediate Beginner B	2
	7900:230	Jazz Dance II: Introduction to 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: Intermediate Principles (2x)	10
	7920:228	Modern V: Intermediate Modern Dance A	3
	7920:246	Intermediate Tap Styles	2
	7920:270	Musical Theatre Dance Techniques	3
	7920:316	Choreography I	2
	7920:317	Choreography II	2
	7920:347	Advanced Tap Styles	2
	7920:351	Jazz Dance Styles	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	Advanced Jazz Dance Styles	2
	7920:471	Senior Seminar	_1
		Total Dance Curriculum	62

 All candidates for the Musical Theatre Degree-BFA Dance will be required to earn at least five credits of 7910: Dance Organizations, one of which must be 7910:112 Dance Production Ensemble.

•	Music Course	S:	Credits
	7500:101	Introduction to Music Theory	2
	7500:107	Class Voice	2
	7500:320	Musical Theatre History and Literature I	2
	7520:124	Applied Voice	2

Two semesters of voice are required, including one semester of applied voice. If a student has sufficient ability and the requisite music reading skills, he/she may study all three semesters at the applied level.

	7500:104	Class Piano I and	2
	7500:105	Class Piano II or	2
	7520:025	Applied Piano (Two semesters of piano study are required for a total of 4 credits) Total Music Curriculum	4 12
•	Theatre Cours	es:	
	7800:151 7800:172 7800:262 7800:475	Voice and Diction Acting I Stage Makeup Acting for Musical Theatre Total Theatre Curriculum	3 3 <u>3</u> 12
٠	Preferred Elec	tive:	
	7510:xxx 7510:100 7510:110 7800:145 7800:121 7810:100 7810:110	Choral Ensemble Production Lab 1 credit/semester Performance Lab 1 credit/semester Movement Training Musical Theatre Production Production Lab Performance Lab General Electives (with approval of adviser)	3 3 2 4 5

4

# College of Nursing

#### Cynthia Capers, Ph.D., R.N., Dean

Linda Linc, Ph.D., R.N., Interim Associate Dean, Graduate Program Elaine F. Nichols, Ed.D., R.N., Associate Dean, Undergraduate Program Phyllis A. Fitzgerald, Ph.D., R.N., Assistant Dean of Student Affairs Elizabeth Kinion, Ed.D., R.N., Director of the Center for Nursing

# 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

- 1) 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.
- 4) 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 cultural 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. An RN/BSN student is expected to meet the same course 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 spring semester.
- 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 2.50 grade-point average or higher.
- 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.

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, placement on a waiting list, or denial due to the filling 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 NLN-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 coursework 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, Associate Dean, Undergraduate Program, The University of Akron, Akron, OH 44325-3701, (330) 972-7551.
- 2. Submit a letter to the Associate Dean, Undergraduate Program, 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 Associate Dean, Undergraduate Program, 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 Associate Dean, Undergraduate Program, 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. Only one course repeat is allowed 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 Y	ear (Prerequisite Courses)	Credits
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
3750:100	Introduction to Psychology	3
3250:100	Introduction to Economics <sup>†</sup>	3
3700:100	Government and Politics in the U.S. <sup>†</sup>	4
3600:120	Introduction to Ethics	3
3850:100	Introduction to Sociology <sup>†</sup>	4
3870:150	Cultural Anthropology <sup>†</sup>	4
8200:100	Introduction to Nursing	1
	Electives	2

#### Transfer to the College of Nursing

#### Sophomore Year

3100:208,209	Anatomy and Physiology	8
3470:260	Basic Statistics <sup>†</sup>	3
3470:261,262	or Statistics I, II <sup>†</sup>	4
3750:230	Developmental Psychology	4
7600:106	Oral Communications <sup>†</sup>	3

<sup>†</sup> 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.

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.

8200:205	College of Nursing Orientation	1
8200:215	Professional Role Development	2
8200:210	Basic Concepts of Nursing	4
8200:220	Foundations of Nursing Practice	5
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 of Adults	5
8200:370	Nursing of Older Adults	5
8200:380	Mental Health Nursing	5
Senior Yea	nr	
3400:210	Humanities in the Western Tradition	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	3
8200:435	Nursing Research	3
8200:440	Nursing of Communities	5
8200:445	Nursing Leadership for Client Care	2
8200:450	Senior Practicum	3
8200:455	Professional Issues	2
	Total minimum credits for graduation:	134

## **Part-time Option**

#### Prerequisites:

Students interested in the Part-time Option of the Basic Baccalaureate Program may apply for admission to the College of Nursing after completing a total of 57 credits as follows:

admission to the	College of Nursing after completing a total of 57 credits as follows:	
3100:130	Principles of Microbiology	3
3100:208,209	Human Anatomy and Physiology	8
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 <sup>†</sup>	3
3700:100	Government and Politics in the U.S. <sup>†</sup>	4
3300:111,112	English Composition	7
3400:210	Humanities in the Western Tradition I	4
3470:260	Basic Statistics <sup>†</sup>	3
3470:261,262	Introduction Statistics I, II <sup>+</sup>	4
3600:120	Introduction to Ethics	3
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3850:100	Introduction to Sociology <sup>†</sup> or	4
3870:150	Cultural Anthropology <sup>†</sup>	4
5540:120-190	Physical Education	1
7600:106	Effective Oral Communication <sup>†</sup>	4
8200:100	Introduction to Nursing	1
	Electives	2
Sophomore Fall	Year	

	8200:205	College Orientation	1
	8200:215	Professional Role Development	2
	8200:210	Basic Concepts of Nursing	4
	8200:220	Foundations of Nursing Practice	5
	Spring		
	8200:210	Basic Concepts of Nursing	4
	8200:220	Foundations of Nursing Practice	5
	8200:225	Health Assessment	3
	Summer		
	7400:316	Science of Nutrition	4
	8200:325	Cultural Dimensions in Nursing	2
J	unior Year		
	Fall		
	8200:315	Pathophysiology	3
	8200:350	Nursing of Childbearing Families	5
	Spring		
	8200:330	Nursing Pharmacology	3
	8200:360	Nursing of Adults	5

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.

Summer	Humanities Elective Area Studies/Cultural Diversity Requirement	Credits 3 2
Junior/Sen	nior Year	
Fall		
8200:370	Nursing 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	3
	Area Studies/Cultural Diversity Requirement	2
Senior Yea	r	
8200:430	Nursing in Complex/Critical Situations	3
8200:445	Nursing Leadership for Client Care	2
Spring		
8200:450	Senior Practicum	3
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

Credits

#### Freshman Year

n comman n	our -	
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 <sup>†</sup> or	4
3850:150	Cultural Anthropology <sup>†</sup>	4
Sophomore	Year	
3100:208,209	Anatomy & Physiology	8
3250:100	Introduction to Economics <sup>†</sup>	3
3700:100	Government and Politics in the U.S. <sup>†</sup>	4
3750:230	Developmental Psychology	4
7600:106	Oral Communication <sup>†</sup>	3
3470:260	Basic Statistics <sup>†</sup>	3
3470:261,262	or Introduction Statistics I, II <sup>†</sup>	4
	Electives	6-7
Transfer to the	College of Nursing	
Summer Sessi	on Start	
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 of the Healthy Individual <sup>‡</sup>	5
8200:440	Nursing of Communities <sup>‡</sup>	5
8200:435	Nursing Research	3
Spring		
	Humanities Requirement	3-4
	Area Studies/Cultural Diversity Requirement	2
8200:415	Nursing Care of Individuals with Complex Health Problems <sup>‡</sup>	5
8200:446	Professional Nursing Leadership <sup>‡</sup>	5
	d Credit: Upon successful completion of 8200:415 and 446, 34 hou	
	varded for courses in the basic program. By-pass credit fee charged	according to
University fee se	chedule. Total credits for graduation are 134.	

<sup>†</sup> 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.

<sup>‡</sup> Courses 8200:405, 415, 440, and 446 are eight weeks in length.

## LPN/BSN Sequence

Effective for students entering College of Nursing in 1998

#### Prerequisite Courses: Total of 50-54 credits

Prerequisite	Courses: Total of 50-54 credits	Credits
3100:130	Principles of Microbiology	3
3100:208, 209	Human Anatomy and Physiology	8
3150:110, 111,		
112, 113	Introduction to General, Organic and Biochemistry I, II, Labs	8
3250:100	Introduction to Economics <sup>†</sup>	3
3700:100	Government and Politics in the U.S. <sup>†</sup>	4
3300:111, 112	English Composition I, II	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 <sup>†</sup>	4
3870:150	Cultural Anthropology <sup>†</sup>	4
5540:120-190	Physical Education (recommended to be completed prior to College of Nursing admission)	1
8200:101	Introduction to Baccalaureate Nursing	1
	Electives	2

#### LPN/BSN Sequence (continued)

#### Admission to the College of Nursing

#### Summer session start

#### Summer 1

Advanced Placement testing to qualify for LPN/BSN Sequence

Summer II		
8200:205	College Orientation	1
8200:225	Health Assessment	_3

#### Junior Level

Fall		
7400:316	Science of Nutrition	4
8200:350	Nursing of the Childbearing Family	5
8200:360	Nursing Care of Adults	5
8200:315	Pathophysiology for Nurses	_3
		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 Lev	rel	
Fali		
3400:210	Humanities in the Western Tradition I	4
8200:410	Nursing Care of Children	5
8200:430	Nursing in Complex and Critical Situations	3
8200:435	Nursing Research	3
8200:445	Leadership for Client Care	_2
		17
Spring		
8200-430	Nursing of Families with Children	5

8200:430	Nursing of Families with Children
8200:440	Nursing of Communities
8200:455	Professional Issues
3400:385-391	World Civilizations
XXXX:XXX	Humanities elective

134

#### Total Credits for Graduation:

#### 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 N210 and N215. Credit by examination fee is charged.
  - Skills testing for N220, 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.

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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

# 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 should write to the Office of Admissions, The University of Akron, Akron, OH 44325-2001 for application forms. The deadline for applications is December 31.

# ADMISSION: M.D.

Applicants with a more 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 coursework, 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, or the third year of the program.

The third year of study 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 four, five and six, the student will develop competence in the clinical aspects of medicine through instruction provided principally at one or more of the associated community hospitals. Successful completion of the six-year program leads to the award of the Bachelor of Science degree by one of the universities and the Doctor of Medicine degree by the College of Medicine.

# COST

Normal undergraduate fees will be assessed for years one and two. Fees for years three through six 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 portion of this program, see B.S.M.D. Program listed in **Section 4** of this Bulletin Under Buchtel College of Arts and Sciences.

# **College of Polymer Science and Polymer Engineering**

Frank N. Kelly, Ph.D., *Dean* Rudolph J. Scavuzzo, Ph.D., *Associate 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)..

# SECTION FIVE

Minor Areas of Study

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# **Minor Areas** of Study

# REQUIREMENTS

The University of Akron has approved minor fields of study that may be placed on a student's record when all requirements have been completed.

The following rules apply to all minors:

- · The student must complete at least 18 credits. (Note: some minors may require additional credits).
- At least six of the 18 credits must be at the 300/400 level, except where the department does not offer 300/400 level courses.
- A minimum grade-point average of 2.0 in each minor is required.
- A minor may be designated at any time during the student's career up to and including the time the degree clearance is processed.
- A minor will be placed on the student's record only at the time the student receives a baccalaureate degree and only on application.
- Courses for a minor may not be taken credit/non-credit. All credits must be earned (bypassed credit may not be used).
- The student must earn at least nine credits at The University of Akron in courses approved by the faculty granting the minor. Written permission of the dean and the head of the department which grants the minor is required for an exception
- Courses required for a minor may carry prerequisites, which must be honored before the student may enroll.

# ADVISEMENT

Although not required to do so, students are advised to contact faculty in the department(s) in which they may wish to earn minors early in their undergraduate programs.

# PROGRAM REQUIREMENTS

(All programs listed in alphabetical order)

## Anthropology (Interdisciplinary)

- Required core courses: Credits 3870:150 Cultural Anthropology Δ 3870:151 Evolution of Man and Culture 3 3870:250 Introduction to Archaeology 3 3300:371 Introduction to Linguisites 3
- A minimum of six additional credits of Anthropology courses (3870).
- Nineteen total credits are required.

# Art

#### Art

- Foundations curriculum need not be completed.
- Prerequisites must be honored.
- Student may complete any department courses except 7100:191.

#### Art History

· Select from the following:

7100:100	Survey of History of Art I	4
7100:101	Survey of History of Art !!	4
7100:300	Art since 1945	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
7100:400	Art in the U.S. before World War II	3
7100:401	Special Topics in History of Art	3
7100:405	History of Art Symposium	3
7100:498	Special Problems in History of Art	1-3
eramics		

## C

7100:254	Introduction to Ceramics	3
7100:354	Ceramics II	3
7100:454	Advanced Ceramics	3
	(May be repeated for a total of 15 credits.)	

#### **Commercial Photography (Inactive)**

2240:110	Multi-Image Production	3
2240:122	Introduction to Commercial Photography	3
2240:210	Portrait/Fashion Photography	3
2240:224	Illustration/Advertising Photography	3
2240:250	Advanced Commercial Photography	3
7100:275	Introduction to Photography	3

#### Computer Imaging

· Requirements: Five courses in Computer Art and one of the following:

7100:100	Survey of History of Art I	4
7100:105	Understanding Art	3
7100:401	History of Graphic Design	
	and portfolio review prior to the third computer art course	3

#### Drawing

Select from the following:

7100:131	Introduction to Drawing	3
7100:132	Instrument Drawing	3
7100:231	Drawing II	3
7100:233	Life Drawing	3
7100:283	Drawing Techniques	3
7100:331	Drawing III	3
7100:333	Advanced Life Drawing (may be repeated)	3
7100:431	Drawing IV (may be repeated)	3
7100:484	Illustration	3
7100:485	Advanced Illustration (may be repeated)	3

#### **Graphic Design**

· Select from the following:

		Credits
7100:184	Graphic Design I	3
7100:283	Drawing Techniques	3
7100:286	Graphic Design II	3
7100:288	Letterform and Typography	3
7100:386	Packaging Design	3
7100:387	Advertising Layout and Design	3
7100:388	Advertising Production Design	3
7100:480	Advanced Graphic Design	3
7100:482	Corporate Identity	3
7100:483	Graphic Design Presentation	3
7100:484	Illustration	3
7100:485	Advanced Illustration	3
7100:488	Publication Design	3

#### Illustration

7100:185	Computer Graphics for Art I	3
7100:283	Drawing Techniques	3
7100:333	Advanced Life Drawing	3
7100:480	Advanced Graphic Design/Illustration Portfolio	3
7100:484	Illustration	3
7100:485	Advanced Illustration	3
	(Advanced Illustration must be taken twice for a total of six credits)	

#### Metalsmithing

Select from the following:		the following:
	7100:266	Introduction to Metalsmithing
	7100:268	Color in Metais
	7100:366	Metalsmithing !!
	7100:368	Color in Metals II

Advanced Metalsmithing (may be repeated)

#### Painting

7100:466

· Select from the following:

7100:245	Introduction to Polymer Acrylic Painting	3
7100:246	Introduction to Water Color Painting	3
7100:247	Introduction to Oil Painting	3
7100:248	Introduction to Airbrush Painting	3
7100:249	Figure Painting	3
7100:348	Painting II	3
7100:449	Advanced Painting (may be repeated)	3

NOTE: Painting II must be taken in a medium taken previously at the introductory level. May be repeated for a total of nine credits but limited to a maximum of three credits in any of the three media.

#### Photography

· Select from the following:

7100:275	Introduction to Photography	3
7100:276	Introduction to Professional Photography	3
7100:370	History of Photography	3
7100:375	Photography II	3
7100:475	Advanced Photography (may be repeated)	3
7100:477	Advanced Photography: Color	3

#### Printmaking

٠	Select from th	ne following:	
	7100:213	Introduction to Lithography	3
	7100:214	Introduction to Screen Printing	3
	7100:215	Introduction to Relief Printing	3
	7100:216	Introduction to Intaglio Printing	3
	7100:317	Printmaking II	3
	7100:418	Advanced Printmaking	3

#### Sculpture

t from the following:	
22 Introduction to Sculpture	3
54 Introduction to Ceramics	3
or	
66 Introduction to Metalsmithing	3
21 Figurative Sculpture	3
22 Sculpture Ii	3
23 Casting	3
22 Advanced Sculpture (may be repeated)	) 3
	<ul> <li>Introduction to Sculpture</li> <li>Introduction to Ceramics or</li> <li>Introduction to Metalsmithing</li> <li>Figurative Sculpture</li> <li>Sculpture II</li> <li>Casting</li> </ul>

#### Biology

Total credits required for a minor in biology: 23-24.

		Credits
3100:111,2	Principles of Biology I, II	8
3100:211	General Genetics	3
3100:217	General Ecology	3
3100:311	Cell Biology	3
3100:130	or Principles of Microbiology or	3
3100:331	Microbiology	4
3100:316	Evolutionary Biology	3
3100:xxx	A 300/400-level course approved by department head	

## **Business Administration** for Non-Business Majors

- Total credits required for a minor in Business Administration: 18
- · Required Courses:

3

6140:370	Introduction to Finance	3
6200:201	Accounting Concepts and Principles for Business	3
6500:301	Management: Principles and Concepts	3
6600:300	Marketing Principles	3
Electives:	Select 2 courses (6 credits) from the following:	

6200:xxx	Any three credit Accountancy course for which	
	the student has the appropriate prerequisites	3
6300:xxx	Any three credit Entrepreneurship course for which	
	the student has the appropriate prerequisites	3
6400:220	The Legal and Social Environment of Business	3
6500:xxx	A 300/400 level course in Management for which	
	the student has the appropriate prerequisites	3
6800:305	International Business	3

## **Business Management Technology**

٠	Required core	courses:	
	2040:247	Survey of Basic Economics	3
	2420:101	Essentials of Marketing Technology	3
	2420:103	Essentials of Management Technology	3
	2420:202	Personnel Practices	3
	2420:211	Basic Accounting I	3
	2420:280	Essentials of Business Law	3
	2420:xxx	Elective	3
•	Choose electiv	ve from the following:	
	2420:170	Business Mathematics	3
	2420:212	Basic Accounting II	3
	2420:243	Survey in Finance	3

## Chemistry

- Total credits required for a minor in chemistry: 19-22.
- · Core comprised of the following:

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.

Classic	al Languages	Caralte
<ul> <li>Total credits</li> </ul>	required for a minor in classics: 21 credits.	Credits
3200:289	Mythology of Ancient Greece	3
3200:313/14	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 Cla	ssics 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**

Classical

<ul> <li>Required core courses:</li> </ul>		Credits
3200:289	Mythology of Ancient Greece	3
3200:313,14	Archaeology of Greece and Rome	6
3200:361,2	Literature of Greece and Rome	6
	Electives in Classics	3
And select (	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

 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.

# **Community Services Technology**

٠	Required	core	courses:
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2040:240	Human Relations	3
2260:100	Introduction to Community Services	3
2260:150	Introduction to Gerontological Services	3
2260:260	Alcohol Use and Abuse	3
2260:240	Chemical Dependency	3
2260:278	Techniques of Community Work	4

# **Computer Programming Technology**

٠	Required core	courses:	
	2440:120	Computer and Software Fundamentals	2
	2440:121	Introduction to Programming Logic	2
	2440:131	Introduction to Programming	2
	2440:133	Structured COBOL Programming	3
	2440:241	Systems Analysis and Design	3
	2440:263	Database Concepts	3
	2440:xxx	Technical electives	5
٠	Select at least	five credits from the following:	
	2440:125	Spreadsheet Software	2
	2440:130	BASIC Programming for Business	3
	2440:151	PC DOS Fundamentals	1
	2440:155	Introduction to Windows	1
	2440:234	Advanced COBOL Programming	3
	2440:239	RPG VIII Programming	2
	2440:243	Information Center Practicum	3
	2440:261	CICS Programming	3
	2440:267	4GL for Micros	3
	2440:269	C Programming for UNIX	3
	2440:270	Novell Network Management 1	4
	2440:272	Novell Network Technologies	2
	2440:274	Noveli Network Service and Support	4
	2440:276	Novell Network Management II	4

# **Consumer Marketing**

• Required courses - 12 credits

6600:300 6600:355	Marketing Principles Buver Behavior	3
6600:355	Buyer Benavior	3

			Credits
660	0:350	Advertising	3
660	0:390	Marketing Channels	3
• Ele	ctive Cours	es — 6 credits	
660	0:305	Essentials of Retailing	3
660	0:430	Promotional Campaigns	3
660	0:440	Product Planning	3
660	0:450	Strategic Retail Management	3
660	0:460	Marketing Research	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	3 3 3
•	Additional cou	rses for general criminal justice minor:	
	2220:240 2220:250 2250:260	Dynamics of Vice Crime and Substance Abuse Criminal Case Management Administration and Supervision in the Public Service	3 6 3
•	Additional cou	rses for corrections area of concentration:	
	3850:100 3850:330 3850:431	Introduction to Sociology Criminology Corrections or	4 3 3
	3850:429	Probation and Parole	3
•	Additional cou	rses for security area of concentration:	
	2220:101 2230:104 2230:204 2220:290	Introduction to Security Fire Investigation Methods Fire Hazards Recognition Special Topics in Security	4 3 3 3

### Dance

٠	Required core	courses:	
	7900:115	Dance as an Art Form	2
	7900:119*	Modern I: Introduction to Modern Dance I	2
	7900:120*	Modern II: Introduction to Modern Dance II	2
	7900:124*	Introduction to Ballet i	2
	7900:125*	Introduction to Ballet II	2
	7900:224*	Ballet III: Intermediate Beginner A	3
		or	
	7900:219*	Modern III: Intermediate Beginner A	2
	7900:130*	Introduction to Jazz Dance I	2
		OF	
	7900:144*	Introduction to Tap Technique I	2
	7920:316	Choreography 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 one (t	otal of 2 credits):	
-	Choose one (i		
	7920:317	Choreography II	2
	7920:320	Dance Notation#	2
	7920:321	Rhythmic Analysis	2
	7920:361	Learning Theory for Dance	2

# Economics

٠	One of the following:			
	3250:200,201 3250:244	Principles of Economics Introduction to Economics Analysis	6 3	
•	One of the following:			
	3250:400 3250:410	Intermediate Macroeconomics Intermediate Microeconomics	3 3	
٠	Electives in E	conomics		

\*See school director for level placement #By advisement only.

Credits

 All students are encouraged to consult with the Undergraduate Student Advisor in the Economics Department about the best choice of coursework. 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. Some courses of particular interest are listed below.

•	Recommended electives for majors in Mathematical Disciplines:		
	3250:420 3250:421 3250:426 3250:427	Mathematical Economics I Mathematical Economics II Econometric Methods and Applications Economic Forecasting	3 3 3 3
•	Recommend	ed electives for majors in International Business:	Credits
	3250:450 3250:460 3250:461	Comparative Economic Systems Economic Development Principles of International Economics	3 3 3
•	Recommend	ed electives for majors in Business:	
	3250:360 3250:380 3250:481	Industrial Organization and Public Policy Money and Banking Monetary and Banking Policy	3 3 3
L	abor Eco	nomics	
•	Required:		
		Later and the Million and a street of the	0

#### 3250:410 Intermediate Microeconomics 3 One of the following: 3250:200,201 Principles of Economics 6 3250:244 Introduction to Economic Analysis 3 Choose at least two of the following: 3250:330 Labor Problems 3 3250:333 Labor Economics 3 3250:430 Labor Market Policy 3 3250:431 Labor and the Government 3 The Economics and Practice of Collective Bargaining 3250:432 3 Electives in Economics (3-6)

NOTE: All students are encouraged to consult with the Undergraduate Student Advisor in the Economics Department about your best choices of coursework.

# 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)	6
•	One from the	following:	
	3300:376 3300:489 3300:489	Legal Writing Management Reports Science Writing	3 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	3
	3300:278	Introduction to Fiction Writing	3
	3300:279	Introduction to Script Writing	3
•	One advanced	course in creative writing from the following:	
	3300:377	Advanced Poetry Writing	3
	3300:378	Advanced Fiction Writing	3
	3300:389	Advanced Script Writing	3

- · 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.

#### Entrepreneurship

This program prepares potential entrepreneurs from all University majors. It provides students with exposure to entrepreneurial activities and builds critical skills needed for entrepreneurial initiatives. (Courses in this minor may not be subsequently used to satisfy any College of Business Administration core course requirements.)

Total of 18 credits as follows:

•	Required:		
	6300:201	Introduction to Entrepreneurship	3
	6300:301	Entrepreneurial Management and Operations (for non-business majors)	3
	6300:303	EntrepreneurialManagement Issues (for business majors)	1
	6300:330	Entrepreneurial Issues in Accounting and Finance	3
	6300:360	Entrepreneurial Field Project	3
	6300:450	Entrepreneurial Strategic Planning	3
•	Electives:		
	6300:490	Entrepreneurship: Selected Topics	1-3
	6300:370	Entrepreneurial Principles and Practices	3
	6300:499	Independent Study in Entrepreneurship	1-3

## **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)

Required Core Courses (9 creaits)			
	6400:338 6400:343 6400:379	Financial Markets and Institutions Investments Advanced Business Finance	3 3 3
	And Three of t	he Following Courses (9 credits):	
	6400:323 6400:325 6400:332	International Business Law Business and Society	3
	6400:390 6400:401	Personal Financial Planning Real Estate Principles: A Value Approach Real Estate Investment	3 3 3
	6400:402 6400:403	Income Property Appraisal Real Estate Finance	3
	6400:413 6400:414	Property and Liability Insurance Life and Health Insurance	3
	6400:415 6400:424	Risk Management and Insurance Legal Concepts of Real Estate Law: A Managerial Approach	3 3
	6400:436 6400:447	Commercial Bank Management Security and Portfolio Analysis	3 3
	6400:473 6400:475	Financial Statement Analysis Commercial and Consumer Credit Management	3
	6400:481 6400:490 6400:495	International Business Finance Selected Topics in Finance Internship in Finance	3 3 1-3
	0400.400	internarip in Finançe	1-0

## 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.

<ul> <li>Required (9</li> </ul>	credits)	Credits
6140:331	Personal Finance	3
6140:341	Contemporary Investments	3
6140:370	Introduction to Finance	3
<ul> <li>Electives (9)</li> </ul>	credits)	
6200:410	Taxation for the Non-Accountant	3
6400:325	Business and Society	3
6400:338	Financial Markets and Institutions	3
6400:390	Real Estate Principles: A Value Approach	3
6400:401	Real Estate investment	3
6400:402	Income Property Appraisal	3
6400:403	Real Estate Finance	3
6400:413	Property and Liability Insurance	3
6400:414	Life and Health Insurance	3
6400:415	Risk Management and Insurance	3
6400:424	Legal Concepts of Real Estate Law: A Managerial Approach	3
6400:436	Commercial Bank Management	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	3
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
2230:205	Fire Detection and Suppression Systems 1	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:

	3350:385 3350:433 3350:495	Planning Seminar Introduction to Planning Soil and Water Field Studies
•	At least two co	purses (six credits) from the following:
	3350:335	Recreation Resource Planning
	3350:422	Transportation System Planning
	3350:428	Industrial and Commercial Site Location
	3350:436	Urban Land Use Analysis
•	At least two co	ourses (six credits) from the following:
	3350:340	Cartography
	3350:405	Geographic Information Systems
	3350:447	Introduction to Remote Sensing
	3350:483	Spatial Analysis
	3350:496	Field Research Methods

## Cartography

• At least five courses (15 credits) from:

3350:340	Cartography
3350:405	Geographic Information Systems
3350:44 <b>2</b>	Thematic Cartography
3350:444	Applications in Cartography and Geographic Information Systems

3350:447 3350:448 3350:449	Introduction to Remote Sensing Advanced Cartography Advanced Remote Sensing	3
	ourse (three credits) from:	3
3350:481 3350:483 3350:496	Research Methods in Geography and Planning Spatial Analysis Field Research Methods	3 3 3

## Geology

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- 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.

#### History

- 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.

## **Home Economics and Family Ecology**

#### **Apparel Design and Construction**

7400:123	Fundamentals of Construction	3
7400:225	Textiles	3
7400:305	Advanced Construction & Tailoring	3
7400:311	Studies in Fiber Arts	3
7400:449	Flat Pattern Design	3
7400:xxx	Elective in Fashion Merchandising Area	3
Fashion		
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
7400:437	Historic Costume to 1800	3
7400:438	History of Fashion Since 1780	3
7400:xxx	Elective in Fashion Merchandising Area	3
Family D	evelopment	
	evelopment must be honored.)	
	•	3
(Prerequisites	must be honored.)	3 3
(Prerequisites 7400:201 7400:265	must be honored.) Courtship, Marriage and the Family	
(Prerequisites 7400:201 7400:265	must be honored.) Courtship, Marriage and the Family Child Development	
(Prerequisites 7400:201 7400:265 The remaining	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following.	3
(Prerequisites 7400:201 7400:265 The remaining 7400:255	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following. Fatherhood: The Parent Role	3 3
(Prerequisites 7400:201 7400:265 The remaining 7400:255 7400:360	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following: Fatherhood: The Parent Role Parent-Child Relations*	3 3 3 3 3
(Prerequisites 7400:201 7400:265 The remaining 7400:255 7400:360 7400:362	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following: Fatherhood: The Parent Role Parent-Child Relations* Family Life Management	3 3 3 3 3 2
(Prerequisites 7400:201 7400:265 The remaining 7400:255 7400:360 7400:362 7400:390 7400:401 7400:401	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following. Fatherhood: The Parent Role Parent-Child Relations* Family Life Management Family Life Management Family-Life Patterns in Economically Deprived Homes Adolescence in the Family Context*	3 3 3 3 2 3
(Prerequisites 7400:201 7400:265 The remaining 7400:255 7400:360 7400:362 7400:300 7400:300 7400:401 7400:404 7400:440	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following. Fatherhood: The Parent Role Parent-Child Relations* Family Life Management Family Relationships in Middle and Later Years Family-Life Patterns in Economically Deprived Homes Adolescence in the Family Context* Family Crisis	3 3 3 3 3 2 3 3 3
(Prerequisites 7400:201 7400:265 The remaining 7400:255 7400:360 7400:362 7400:362 7400:300 7400:401 7400:404 7400:440 7400:442	must be honored.) Courtship, Mariage and the Family Child Development 12 credits may be selected from the following: Fatherhood: The Parent Role Parent-Child Relations* Family Life Management Family Relationships in Middle and Later Years Family-Life Patterns in Economically Deprived Homes Adolescence in the Family Context* Family Crisis Human Sexuality*	3 3 3 3 2 3 3 3 3 3 3
(Prerequisites 7400:201 7400:265 The remaining 7400:255 7400:360 7400:362 7400:300 7400:300 7400:401 7400:404 7400:440	must be honored.) Courtship, Marriage and the Family Child Development 12 credits may be selected from the following. Fatherhood: The Parent Role Parent-Child Relations* Family Life Management Family Relationships in Middle and Later Years Family-Life Patterns in Economically Deprived Homes Adolescence in the Family Context* Family Crisis	3 3 3 3 3 2 3 3 3

#### **Child Development**

1 3

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(Prerequisites	must be honored.)	
7400:201	Courtship, Marriage and the Family	3
7400:265	Child Development	3
The remaining	12 credits may be selected from the following:	
7400:132	Early Childhood Nutrition	2

7400:255	Fatherhood: The Parental Role
7400:270	Theory and Guidance of Play
7400:280	Creative Activities for Pre-kindergarten Children
7400:360	Parent-Child Relations*
7400:401	Family-Life Patterns in Economically Deprived Homes
7400:404	Adolescents in the Family Context*
7400:460	Organization and Supervision of Child-Care Centers
7400:496	Parenting Skills*

3

## **Clinical Nutrition**

7400:133	Nutrition Fundamentals	
7400:328	Nutrition in Medical Science I	
7400:424	Nutrition in the Life Cycle	
7400:426	Therapeutic Nutrition*	
7400:428	Nutrition in Medical Science II	

## **Community Nutrition**

7400:133	Nutrition Fundamentals	
7400:424	Nutrition in the Life Cycle	
7400:426	Therapeutic Nutrition*	
7400:480	Community Nutrition I	
7400:482	Community Nutrition II	
7400:xxx	Elective in Nutrition/Dietetics/Food Science	
7400:xxx	Elective in Nutrition/Dietetics/rood Science	

#### **Consumer Services Minor**

(Prerequisites must be honored.)

7400:301	Consumer Education
7400:302	Consumers of Services
7400:303	Children as Consumers
7400:362	Family Life Management
7400:406	Family Financial Management
7400:455	Public Policy and the American Family

## **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	З
7400:475	Analysis of Food	3
Select at least 3 c	redits from the following courses:	
7400:403	Advanced Food Preparation	3
7400:421	Independent Investigation: Food Science	1-3
7400:474	Cultural Dimensions of Food	3
7400:476	Development in Food Science	3
7400:485	Seminar: (selected topics in Food Science)	3
7400:497	Internship in Food Science	3-5

# **Hospitality Management**

#### **Restaurant Management**

2280:120	Safety and Sanitation
2280:121	Fundamentals of Food Preparation 1
2280:160	Wine and Beverage Service
2280:232	Dining Room Service and Training
2280:233	Restaurant Operations and Food Management
2280:245	Menu, Purchasing and Cost Control

## **Culinary Arts**

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	

		Credits
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	2
2280:261	Baking and Classical Desserts	3
Hotel/Mo	otel Management	
2280:120	Safety and Sanitation	3
2280:232	Dining Room Service and Training	2
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

The International Business Minor is a program for students who are interested in having sufficient understanding of international business and its environments without having to study a functional area of business administration. Students in the International Business Minor are eligible to participate in the business administration foreign exchange programs. Courses offered through The University of Akron foreign business partner schools may substitute for both electives and one required course.

• 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
0000.000		0
Electives: Co	omplete 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
6800:421	International Business Practices	3

## Library (Inactive)

· Courses are offered in alternate years.

 Students are encouraged to take 2540:140 Keyboarding for Non-Majors before taking library courses.

2200:100	Introduction to Library Technology	3
2200:201	Cataloging, Classifying and Processing Materials	3
2200:202	Organizing and Operating Library/Media Centers	3
2200:203	Materials Selection	2
2200:204	Reference Procedure	3
2200:205	Information Retrieval Systems in Library Technology	3
2200:297	Independent Study	1
	(Student pursues a project in major area of study utilizing li	brary skills.)

#### Management

•	Total credits re	equired for a minor in Management: 18	
	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 or 4XX	Management Electives	6

## Marketing and Sales Technology

		Creuns
2520:103	Principles of Advertising	3
2520:106	Visual Promotion	3
2520:202	Retailing Fundamentals	3
2520:211	Math of Retail Distribution	3
2520:212	Principles of Sales	3
and any TWO	of the following:	
2520:215	Advertising Projects	2
2520:217	Merchandising Projects	2
2520:219	Sales Projects	2
2520:221	AAF Ad Campaign I	2
2520:222	AAF Ad Campaign II	2
2520:234	Humor in Advertising	2

· To be awarded only at the time a student receives a baccalaureate degree.

# **Mathematical Sciences**

· Total credits required for minors are as follows:

	Credits
Mathematics/Applied Mathematics	24-25
Statistics	25
Computer Science	28

## **Mathematics/Applied Mathematics**

#### Option A (24 credits)

3450:221,2,3 3450:312	Analytic Geometry-Calculus I, II, III Linear Algebra	3
<ul> <li>Approved 30 3450 courses</li> </ul>	0/400-level mathematical sciences electives (at least si s which may include 3450:235 Differential Equations.)	x credits in 9
Option B (24-	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
<ul> <li>Approved 30</li> </ul>	0/400-level mathematics or statistics electives	9

OR

 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 (which may include 3450:235 Differential Equations).

#### Statistics

3450:221,2	Analytic Geometry-Calculus I, II	ø
3450:312	Linear Algebra	3
3470:461,2	Applied Statistics I, II	8
	Approved 400-level statistics electives:	6

#### **Computer Science**

3450:208	Introduction to Discrete Mathematics	4
3450:221	Analytic Geometry-Calculus I	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	3
Approved 30	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**

		Credits
1600:100	Introduction to Military Science 1	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 1	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 l	2
7500:211	Jazz Improvisation II	2
7500:212	Music Industry Survey	2
7500:307	Technique of State Band Performance and Direction	2
7500:308	Jazz History and Literature	3
7500:497	Elective in Jazz (see director of Jazz Studies)	2
7510:115	Jazz Ensemble	4
7520:xxx	Applied Jazz Study	8
Music		
7500:151	Theory I	3
7500:152	Theory II	3
7500:154	Music Literature	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**

#### **General Secretarial - 19 credits**

2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:121	Introduction to Office Procedures	3
2540:129	Information/Records Management	3
2540:151	Intermediate Keyboarding/Word Processing	3
2540:253	Advanced Keyboarding/Word Processing	3
2540:281	Editing/Proofreading/Transcription	3
Word Pro	ocessing - 20 credits	
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2

2440:125	Spreadsheet Software	2
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:270	Office Software Applications	4
2540:271	Desktop Publishing	3
2540:281	Editing/Proofreading/Transcription	3

# Information Records Management - 21 credits (Inactive)

2540:129	Information/Records Management	3
2540:131	Computerized Document Control	4
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:247	Automated Office Systems	

#### Legal Secretarial (Inactive) - 19 credits

		CIEUIIS
2540:129	Information/Records Management	3
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:255	Legal Office Procedures I	3
2540:279	Legal Office Procedures II	4
2540:281	Editing/Proofreading/Transcription	3

# 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.

#### Minors

Major Area	Philosophy Courses
Arts	Philosophy of Art
Humanities	History of Philosophy
Natural sciences	Philosophy of Science
Computer sciences/mathematics	Philosophy of Mathematics
Law	Philosophy of Law
Business	Business Ethics
Teaching	Philosophy of Education
Theology	Philosophy of Religion
Political science	Political Philosophy
Communication/journalism	Philosophy of Language
Social work	Social Philosophy
Health professions	Biomedical Ethics
Technical writing	Philosophy of Language
Engineering	Philosophy of Technology

- Other minors in philosophy may be designed with the approval of the Department of Philosophy.
- Students should consult with the Department of Philosophy for courses appropriate to their minors.

#### Examples

 Examples of courses available for students majoring in arts, humanities and natural sciences follow:

Arts (Philosophy of Art)

3600:120 Ethics 3600:350 Philosophy of Art 3600:211, 312,13 History of Philosophy 3600:481/581 Philosophy of Religion 3600:232 Philosophy of Religion 3600:424/524 Existentialism 3600:426/526 Phenomenology

#### Humanities (Philosophy)

3600:120 Ethics 3600:120 Ethics 3600:211, 312,13 History of Philosophy 3600:350 Philosophy of Art 3600:462/562 Theory of Knowledge 3600:462/562 Theory of Knowledge 3600:424/524 Existentialism 3600:426/526 Phenomenology 3600:471/571 Metaphysics

#### Natural Sciences (Philosophy of Science)

3600:120 Ethics 3600:170, 374 Logic 3600:464/564 Philosophy of Science 3600:418/518 Analytic Philosophy 3600:471/571 Metaphysics 3600:426/526 Phenomenology 3600:462/562 Theory of Knowledge 3600:211 History of Ancient Philosophy 3600:462/562 Theory of Knowledge 3600:211 History of Ancient Philosophy

#### Physics

 Requirements for a minor in physics include: 3650:291,2 Elementary Classical Physics I, II - eight credits; and, physics electives at the 300/400 level - 10 credits. Note: 3650:261,2, Physics for the Life Sciences, may be substituted for 3650:291,2, in whole or in part.

Recommended physics electives: most students should elect 3650:301. Other highly recommended courses are 3650:320, 322, 323, 340 and 406 (see course descriptions). Finally, 3650:406 provides an important background in optics, useful to engineers, geophysicists and others.

## **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**

		Credits
3700:100	Government and Politics in the United States	4
Fourteen cree	dits 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
Company	tive Delities	
Compara	itive Politics	
3700:150	World Politics and Governments	3
3700:300	Comparative Politics	4
Eleven additio	onal 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:	
3700:220	American Foreign Policy	3
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
3700:405	Politics in the Middle East	3
3700:410	International Defense Policy	3
3700:425	Latin American Politics	3

### **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 addition	al 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 addition	al 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

## Psychology

3700:395 3700:462

 A total of 19 credits in Psychology with eight credits of 300/400-level coursework.

Internship in Government and Politics

The Supreme Court and Civil Liberties

	Required for a	Il students:	
•	3750:100	Introduction to Psychology	3
•	At least one co	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
٠	At least one co	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 intere	est:
	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	4
	3750:475 2750:480	Psychology of Adulthood and Aging Special Topics in Psychology	-4 1-4
	3750:485	Applied Developmental Psychology	4
	3700.400	Applied Developmental i sychology	

## **Sales Management**

<ul> <li>Required: Complete all courses – 12 credits</li> </ul>		
6500:301	Management: Principles and Concepts	3
6600:300	Marketing Principles	3
6600:375	Professional Selling	3
6600:480	Sales Management	3
<ul> <li>Electives:</li> </ul>	Complete two (2) courses – 6 credits	
6500:302	Introduction to Organizational Behavior	3
6500:341	Human Resource Management	3
6600:370	Purchasing	3
6600:460	Marketing Research	3
6600:470	Business to Business Marketing	3
6600:475	Business Negotiations	3
7600:235	Interpersonal Communication	3

# Sociology

· Nineteen total credits are required.

Required for all 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 core courses:

2-9

3

nequired core	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	Communicative Disorders II	4
7700:440	Augmentative Communication	3

## **Theatre Arts**

(Requires a minimum of 24 credits.)

7800:100	Experiencing Theatre	3
7800:106	Introduction to Stage 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	3
7800:430	Dramatic Literature II	3

## Transportation

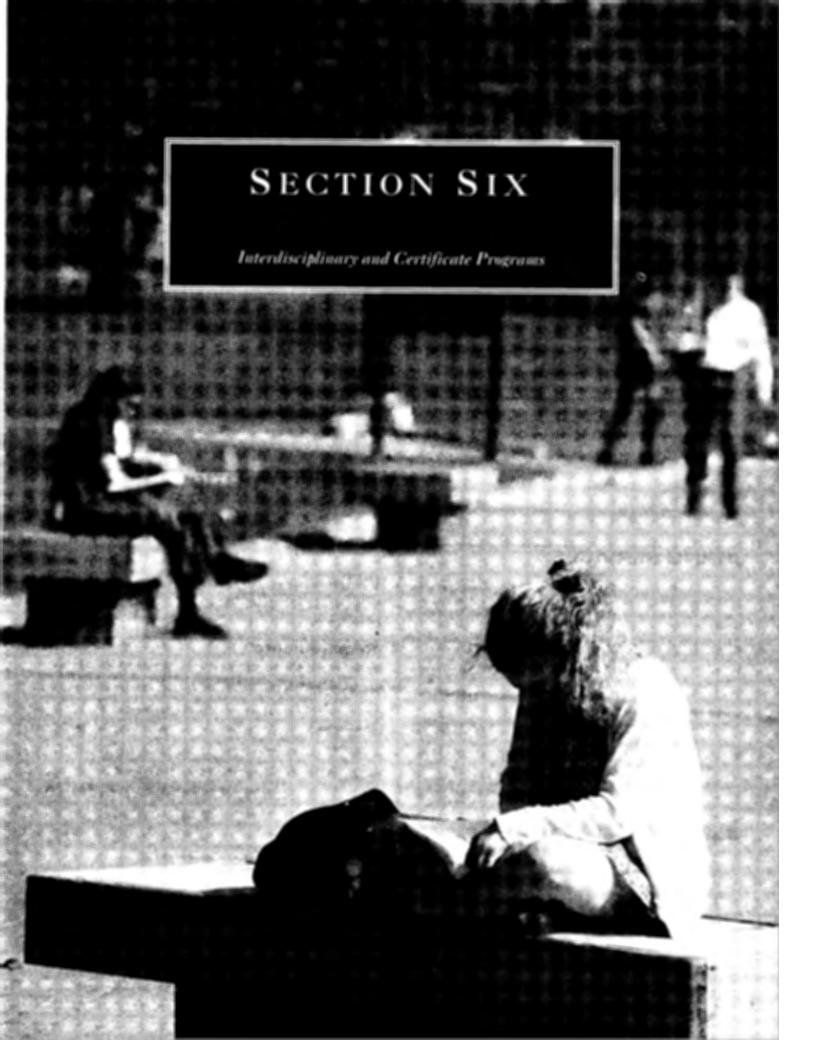
•	Core:		
	2560:110	Principles of Transportation	3
	2560:118	Transportation Rate Systems	3
	2560:221	Traffic and Distribution Management	3
	2560:224	Transportation Regulation	3
•	Six credits from	m the following:	
	2560:115	Motor Transportation	3
	2560:116	Air Transportation	2
	2560:117	Water Transportation	2
	2560:222	Microcomputer Applications in Transportation	3
	2560:227	Transportation of Hazard Materials and Wastes	2

#### **Airline/Travel Industry Option**

 Students wishing to obtain a minor in this option must complete the following courses with a 2.0 grade point average.

٠	Core:		
	2560:111	Principles of Transportation	3
	2560:116	Air Transportation	2
	2560:228	Introduction to Travel	2
	2560:229	Passenger Ticketing	2
	2560:230	Tour Planning and Packaging	2
•	In addition t from the foll	o the above core, a minimum of seven hours must be lowing:	completed

2540:140	Keyboarding for Non-majors	2
2560:118	Transportation Rate Systems	3
2560:221	Traffic and Distribution Management	3
2560:231	Computerized Reservations I	2
2560:232	Computerized Reservations II	2



# 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 coursework 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.

# **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 Chair of Community Services Technology. This certificate may be earned independent of earning a degree.

## Requirements

		Credits
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

# **ALCOHOL SERVICES AIDE**

This program is intended for individuals who wish to enhance their knowledge of alcohol use and abuse and the treatment of alcoholism. The program is not limited to community services majors. This certificate is generally designed for individuals in one of the following categories:

- The person with no degree but who is contemplating working in the field of alcoholism treatment.
- The person with a degree who has not had specialized training, but who would like to be employed in the field of alcoholism treatment.
- The person employed in this field who would like to upgrade his/her knowledge and skills.

Persons interested in this program should consult with the Chair of Community Services Technology. This certificate may be earned independent of earning a degree.

Credits

## Requirements

-		
2020:121	English	4
2020:222	Technical Report Writing	3
2260:260	Alcohol Use and Abuse	3
2260:261	Alcoholism Treatment	3
2260:262	Basic Helping Skills in Alcohol Problems	4
2260:263	Group Principles in Alcoholism	4.
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community and Social Services	5

# **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**

3700:470	Campaign Management I	3
3700:471	Campaign Management II	3
3700:395	Internship 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:

Politics and the Media	3
Survey Research Methods	3
Campaign Finance	3
Voter Contact and Elections	3
Public Opinion, Behavior and Electoral Politics	3
American Interest Groups	3
American Political Parties	3
ST:Communication in Political Campaigns	3
	Survey Research Methods Campaign Finance Voter Contact and Elections Public Opinion, Behavior and Electoral Politics American Interest Groups American Political Parties

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 coursework 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.

# **CANADIAN STUDIES**

Mary K. Kirtz, Ph.D., Director

## Requirements

The student in the Canadian Studies Certificate Program will complete 15 hours of coursework 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, nondegree or full-time students are eligible to apply for the certificate.

#### **Required Course:**

		Credits
3005:300	Introduction to Canadian Studies	3
Electives (4 r	nust be taken):	
3300:382	Contemporary Canadian Literature	3
3300:489	Seminar in English: Traditional American Indian Tales	3
3350:350	Geography of U.S. and Canada	3
3400:352	The West in the Development of the United States	3
3400:366	History of American Transportation	3
3700:330	Canadian Politics	3
3850:365	Special Topics: Comparing Society	3
3500:315	French-Canadian Literature	3
3400:414	History of Canada	3

# CARTOGRAPHIC SPECIALIZATION

Charles Monroe, 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	Introduction to 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 coursework 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 coursework 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.

# CHEMICAL DEPENDENCY

This program is intended for individuals who wish to enhance their knowledge of chemical dependency treatment. The program is not limited to community service majors. This certificate, which requires 42 credits of course work, is designed for individuals in one of the following categories.

- The person with no degree but who is interested in working in the field of chemical dependency.
- The person with a degree who has not had specialized training, but who would like to have specialized training.
- The person employed in this field who would like to upgrade his/her knowledge and skills.

Persons interested in this program should consult with the Chair of Community Services Technology. This certificate may be earned independent of earning a degree.

#### Requirements

		Credits
2260:100	Introduction to Community Services	3
2260:240	Chemical Dependency	3
2260:241	Chemical Dependency II	3
2260:260	Alcohol Use and Abuse	3
2260:261	Alcohol Treatment	3
2260:262	Basic Helping Skills in Alcohol Problems	4
2260:263	Group Principles in Alcoholism	4
2260:278	Techniques of Community Work	4
2260:279	Technical Experience in Community and Social Services	5
2260:286	Counselor Assistant Internship	4
XXXX:XXX	Electives in Chemical Dependency	6

# CHEMICAL DEPENDENCY EDUCATION AND PREVENTION

2260:210	Chemical Dependency Education and Prevention I	4
2260:211	Chemical Dependency Education and Prevention II	4
2260:212	Chemical Dependency Education and Prevention Internship I	5
2260:213	Chemical Dependency Education and Prevention Internship II	4
2260:240	Chemical Dependency	3
2260:260	Alcohol Use and Abuse	3
2260:264	Children of Alcoholics	3
2260:xxx	Electives in Chemical Dependency	6

# **CHILD CARE WORKER**

## Requirements

The establishment of 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 immediate job placement. This certificate may be attained independent of earning a degree.

		Credits
2040:240	Human Relations	3
2200:245	Infant/Toddler Day-Care Programs	3
2200:250	Observing and Recording Children's Behavior	3
5200:310	Introduction to Early Childhood Education	3
5200:315	Issues and Trends in Early Childhood Education	3
5200:360	Teaching in the Nursery Center	2
5200:370	Nursery Center Laboratory	2
7400:265	Child Development	3
7400:270	Theory and Guidance of Play	3
7400:280	Creative Activities for Pre Kindergarten Children	4

# COMMERCIAL PHOTOGRAPHY (Inactive)

This certificate program will enhance students' knowledge of the Commercial Photography field and its relationship with the design and advertising industries. This program is designed for individuals who are presently working in a related field, or who are pursuing a two year degree in a related field.

#### **Required Courses:**

3
3
3
3
3
3

# **COMPUTER PHYSICS**

E. Von Meerwall, Ph.D., Director

#### Requirements

To qualify for the certificate program, a student must be in good academic stand ing 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

36	550:291,2	Elementary Classical Physics I, II	8
36	650:350	Computational Physics	3
36	550:468	Digital Data Acquisition	3
Mat	hematics		
34	450:221,2	Analytic Geometry-Calculus I, II	8
Corr	nputer Scienc	e .	
34	460:206	Introduction to C Programming	3
34	160:209	Introduction to Computer Science	4
34	460:210	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**

Phillip H. Schmidt, Ph.D., Department Chair

## Requirements

#### Entrance

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 Mathematical Sciences and must submit to the department head 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.

#### Courses

50ui 363		Credits
3450:208	Discrete Mathematics	4
3450:215	Concepts of Calculus I	4
	or	
3450:221	Analytic Geometry-Calculus	4
3460:209	Introduction to Computer Science	4
3460:210	Data Structures and Algorithms I	4
3460:306	Assembly Language Programming	3
3460:316	Data Structures and Algorithms II	3
XXXXXXXX	Approved 300/400-Level Computer Science Electives	6

# COMPUTER SOFTWARE FOR BUSINESS

#### Requirements

The Computer Software for Business certificate provides the opportunity for those with little or no prior computer experience to become proficient in the use of popular microcomputer software and understand the fundamental concepts of software development. This certificate may be obtained independent of a degree.

2440:120	Computer and Software Fundamentals	2
2440:121	Introduction to Programming Logic	2
2440:125	Spreadsheet Software	2
	or	
2440:243	Information Center Practicum	3
2440:133	Structured COBOL Programming	3
or		
2440:130	BASIC Programming for Business	3
2440:151	PC DOS Fundamentals	1
2440:245	Introduction to dBase III+/IV	3
	or	
2440:267	4GL for Micros	3

# CRIMINAL JUSTICE TECHNOLOGY

#### Requirements

The program specified is designed to provide background, proficiency and updating in the criminal justice area. In the immediate geographic area there are approximately 2,200 police officers and support personnel in police departments. While many of these police officers 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 agency. This certificate may be obtained independent of a degree.

2200:100	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 EMPHASIS

#### Requirements

The program specified is designed as an integrated approach to provide proficiency and updating in the security field. The security field is one of the fastest growing areas of business today. There are approximately 750,000 individuals in the United States dealing with security problems. In the state of Ohio, there are approximately 70,000 and in the local area, 2,500 security personnel. The field is upgrading very rapidly by accepted state training and there is a move now for more education to be provided at the college level.

This certificate may be obtained independent of a degree.

		Credits
2220:101	Introduction to Security	4
2220:290	Special Topics in Criminal Justice	3
2220:296	Current Topics in Criminal Justice	3
2230:204	Fire Hazards Recognition	3
2230:250	Hazardous Materials	4
2230:257	Fire Protection for Business and Industry	3

# 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	Introduction to Digital Concepts	1
2860:237	Digital Circuits	4
2860:238	Microprocessor Fundamentals	4
All courses	taken may be applied toward the Appendiate Degree i	n Electronio

All courses taken may be applied toward the Associate Degree in Electronic Engineering Technology.

# DRAFTING AND COMPUTER DRAFTING TECHNOLOGY

## Requirements

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 draft ing. 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 of	f 9 semester hours selected from the following	<b>]</b> :
2870:211	Computer Aided Drawing II	3
2940:170	Surveying Drafting	3
2940:200	Advanced Drafting	3

		Crouns
2940:230	Mechanical Systems Drafting	3
2940:240	Electrical & Electronic Drafting	3
2940:250	Architectural Drafting	3
2980:250	Structural Drafting	2
3350:340	Cartography	3

Cradito

All courses taken may be applied toward the Associate Degree in Drafting and Computer Drafting Technology.

# ENVIRONMENTAL STUDIES

Annabelle M. Foos, Ph.D., Interim 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 student's plan of study for this certificate will be developed in consultation with the director of the Center for Environmental Studies. Students will select elective courses from areas outside their academic major.

#### Core (required)

3010:201	Introduction to Environmental Studies	2
3010:401	Seminar in Environmental Studies	2

Students will select courses from areas other than their major.

Students' plans of study for this certificate will be developed in consultation with the director of the Center for Environmental Studies.

#### Electives (minimum of 12 credits)

-			
	2230:250	Hazardous Materials	4
	3010:401	Seminar in Environmental Studies (may be repeated as an elective)	2
	3010:490/590	Workshop in Environmental Studies	1-4
	3010:602	Evaluation of Environmental Data	3
	3010:661	Graduate Seminar in Environmental Studies	3
	3100:217	General Ecology	3
	3100:421	Tropical Field Biology	4
	3100:424/524	Freshwater Ecology	з
	3100:426/526	Applied Aquatic Ecology	4
	3150:100	Chemistry and Society	3
	3250:385	Economics of Natural Resources and Environment	3
	3250:389	Economics of Energy	3
	3350:310	Physical and Environmental Geoography	3
	3350:314	Climatology	3
	3350:335	Recreational Resource Planning	3
	3350:351	Ohio Environment and Society	3
	3350:405/505	Geographic Information Systems	3
	3350:436/536	Urban Land Use Analysis	3
	3350:447/547	Introduction to Remote Sensing	3
	3350:495/595	Soil and Water Field Studies	3
	3370:126, 129, 13	30, 131, 134, 135 Concepts in Geology	1
	3370:200	Environmental Geology	3
	3370:201, 202	Exercises in Environmental Geology	1
	3370:301	Engineering Geology	3
	3370:470/570	Geochemistry	3
	3370:474/574	Ground Water Hydrology	3
	3370:674	Advanced Ground Water Hydrology	3
	3370:678	Urban Geology	3
	3400:471/571	American Environmental History	3
	3700:412/512	Global Environmental Politics	3
	3850:321	Population	3
	4100:203	Environmental Science and Engineering	3
	4200:463/563	Pollution Control	3
	4200:750	Advanced Pollution Control	3
	4300:323	Water Supply and Pollution Control	4
	4300:423/523	Chemistry for Environmental Engineers	3
	4300:426/526	Environmental Engineering Design	3
	4300:427/527	Water Quality Modeling and Management	3
	4300:428/528	Hazardous and Solid Waste	3
	9200:661	Environmental Law	3

# ENTREPRENEURSHIP

James E. Inman, LL.M., Coordinator

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: Complete all courses - 15 hours

			Credits
	6300:201	Introduction to Entrepreneurship	3
	6300:301	Entrepreneurial Management and Operations*	3
	6300:330	Entrepreneurial Issues in Accounting and Finance	3
	6300:360	Entrepreneurial Field Project	3
	6300:450	Entrepreneurial Strategic Planning	3
•	Electives: Con	nplete one course - 3 credits	
	6300:370	Entrepreneurial Principles & Practices	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 (1 credit) in lieu of 6300:301. Such students should then select 2 more credits of entrepreneurial electives.

# FIRE PROTECTION TECHNOLOGY

## Requirements

Although fire continues to be a growing problem in the United States with more than 2,300,000 fires annually causing 6,000 fatalities and 30,000 injuries, many municipalities are financially unable to provide a full-time fire department and instead must depend upon the dedicated volunteer firefighter. As this trend continues, the need for the well-educated volunteers will be even more critical as these citizens assume responsible officer positions.

The Fire Protection Technology certificate will assist the student in acquiring the skills and knowledge to function effectively as a volunteer/paid on-call firefighter or officer in addition to receiving a certificate of completion and accomplishment.

Introduction to Fire Protection	3
	3
Fire Investigation Methods	4
Fire Suppression and Emergency Response Methods	4
Fire Hazards Recognition	3
Fire Detection and Suppression Systems I	3
Hazardous Materials	4
	Fire Suppression and Emergency Response Methods Fire Hazards Recognition Fire Detection and Suppression Systems I

# 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 in Industrial Management (Personnel Option) 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 postbac calaureate 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

		Credits
3006:450	Interdisciplinary Seminar in Gerontology	2
3006:495	Practicum/Internship (within Institute or in individual departments)	3
3100:392	Biology of Aging	3
	Prerequisite: 3110:112 or 265 or 206 or 207 or equivalent	
3750:475	Psychology of Adulthood and Aging	4
	Prerequisite: 3750:100 or permission	
3850:343	The Sociology of Aging	3
	Prerequisite: 3850:100 or permission	

Electives (must be outside of student's major degree department)

3006:486	Retirement Specialist	2
3006:490	WorkshopWomen: Middle and Later Years	2
3006:490	WorkshopAging: Process and Intervention	2
3006:485-001	Special TopicsLong Term Care: Case Management/Patient Services	3
3006:485-003	Special TopicsLong Term Care: Health and Nutrition	3
2040:244	Death and Dying	2
3700:480	Policy Problems: Aging*	3
3850:365	Special Topics in Sociology: Death and Dying	3
3850:444	Social Issues in Aging	3
5400:440	Life-Span and Community Education	2
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 Health and Nutrition 3	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 ST: Long Term Care Administrator-in-Training Experience	3

Many courses have prerequisites which must be met.

Offered every other year.

# HOME-BASED

Helen Cleeminshaw, 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 and helps to meet the need for trained professionals 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)

		oround
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

3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology	4
3750:335	Dynamics of Personality	4
Home Econo	mics and Family Ecology	
7400:265	Child Development	3
7400:360	Parent-Child Relations	3
7400:362	Family Life Management	3
Sociology/So	ocial Work	
7750:276	Introduction to Social Welfare	4
7750:455	Black Family Issues	3
7750:455	The Black Family	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.)

#### Home Economics and Family Ecology

ionic Economics and runny Ecology		
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

		Credits
7400:442	Human Sexuality	3
7400:492	Parenting Skills	3
Sociology		
3850:410	Social Structures and Personality	3
3850:412	Socialization: Child to Adult	3
3850:430	Juvenile Delinquency	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 Welfare3	
7750:452	Social Work and Mental Health3	
7750:454	Social Work in Juvenile Justice3	
Multicultural	Education	
5630:482	Characteristics of Culturally Different Youth	3
Special Educa	ition	
5610:440	Developmental Characteristics of Exceptional Individuals	3
5610:446	Developmental Characteristics of Behaviorally Disordered Individuals	3
5610:459	Communication and Consultation with Parents and Professional	3

# HOSPITALITY MANAGEMENT

3

3 3 4

4

3 2

4

1 3

4 3

Advanced Behavioral Management

## Program

5610:468

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

2

Crodite

2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	3
2280:121,2	Fundamentals of Food Preparation I, II	8
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	2
2280:233	Restaurant Operation and Management	4
2280:245	Menu, Purchasing and Cost Control	4
2280:261	Baking and Classical Desserts	4
Hotel/Mo	otel Option	
2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	3
2280-121	Fundamentals of Food Preparation I	1

2200.121	r undamentals of r ood r reparation r
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	
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 Home Economics and Family Ecology 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.

Required:		Credits
7100:131	Drawing !	3
7100:244	Two-Dimensional Design	3
7100:491	Architectural Presentations I	3
7100:492	Architectural Presentations II	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	Residential Design	3
7400:434	Commercial Design	3
7400:435	Decorative Elements in Interior Design	1
7400:497	Internship: Interior Design	3
	Total Hours Required	45
Select one of	the following:	
Preservatio	n Track	
7400:436	Textile Conservation	3
7400:459	Senior Design Synthesis	3
7400:485	Field Studies	3
Computer-A	Assisted Design	
2940:210	Computer-Aided Drawing I	3
7100:185	Computer Graphics for Art I	3
7400:257	DATACAD for Interior Designers	3

#### Business Track

2420:101	Essentials of Marketing	
2520:212	Principles of Sales	
7400:139	Fashion and Furnishings Industries	
	-	

# LATIN AMERICAN STUDIES

Hugo Lijeron, Ph.D., Director

## Requirements

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**

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

		Credits
3400:418	Mexico	3
3400:419	Central America and the Caribbean	3
Geograp	hy	
3350:353	Latin America	3
Sociolog	y/Anthropology	
3870:355	Indians of South America	3
3870:356	New World Prehistory	3
<b>F</b>		

#### 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;

## **Graduation Requirements:**

• 2.0 GPA in major;

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- Minimum of 31 credits as in curriculum outline;
- No grade below a C in major.

٠	Required cour	sework includes
	2290:101	Introduction to Legal Assisting
	2290:104	Basic Legal Research and Writing
	2290:106	Business Associations
	2290:108	Real Estate Transactions
	2290:118	Probate Administration
	2290:220	Legal Assisting Internship

Students are required to take 15-16 hours from the following courses

2290:110 2290:112 2290:204 2290:216 2290:218 2290:218 2290:214	Tort Law Family Law Advanced Legal Research Debtor-Creditor Relations Advanced Probate Administration Givil Procedures	3 3 3 3 3 3
2290:214	Civil Procedures	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.

# **LIBRARY STUDIES (Inactive)**

### Requirements

The Certificate Program in Library Studies provides basic library skills for library paraprofessionals. It will help students meet their short-range goals in acquiring skills for immediate job placement. In addition to providing entry-level skills, the program would be responsive to the needs of small businesses who need employees with organizational skills. This certificate may be earned independent of earning a degree.

2200:100	Introduction to Library Technology	3
2200:201	Cataloging, Classifying, and Processing Materials	3
2200:202	Organizing and Operating Library/Media Centers	3
2200:203	Materials Selection	2
2200:204	Reference Procedures	3
2200:205	Information Retrieval Systems in Library Technology	3

# LINGUISTIC STUDIES

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.

Foundati	on (Required)	Credits
3300:371	Introduction to Linguistics	3
Core (Mini	mum of two of the following)	

 3300:472
 Syntax

 3600:481
 Philosophy of Language

 3870:461
 Language and Culture

 7700:230
 Speech and Language Development

 or
 or

Aspects of Normal Language Development

# 7700:430

3300:400	Anglo Saxon	3
3300:470	History of the English Language	3
3300:471	U.S. Dialects: Black and White	3
3300:473	ST: Teaching ESL: Theory and Method	3
3300:489	ST: Sociolinguistics	3
3460:460	Artificial Intelligence and Heuristics Programming	3
3460:470	Automata, Computability and Formal Language	3
3580:405,6	Spanish Linguistics	8
3600:170	Introduction to Logic	3
3600:374	Symbolic Logic	3
3600:418	Analytic Philosophy	3
3600:471	Introduction to Metaphysics	3
5200:335	Teaching of Language Arts	5
5630:481	Multicultural Education in the United States	3
7600:325	Intercultural Communication	2
7700:111	Introduction to Phonetics	2
7700:271	Language of Signs I	3

# 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

7700:101	Beginning Sign Language I	3
7700:102	Beginning Sign Language !!	3
7700:120	Introduction to Audiology/Aural Rehabilitation	4
7700:121	Psychosocial Aspects of Deafness	2
7700:201	Intermediate Sign Language	3
7700:202	Advanced Sign Language	3
7700:222	Survey of Deaf Culture in America	2

**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.

Crodito

#### Requirements

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lequilemento		Ciedits
2420:101	Essentials of Marketing Technology	3
2520:103	Principles of Advertising	3
2520:106	Visual Promotion	3
2420:211	Basic Accounting i	3
2520:211	Math of Retail Merchandising	3
2520:212	Principles of Sales	3
In addition, se	elect one the following:	
2520:215	Advertising Projects	2
2520:217	Merchandising Projects	2
2520:219	Sales Projects	2

# 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

2520:103	Principles of Advertising	3
2020:224	Writing for Advertising	4
2520:215	Advertising Projects	2
2520:221	AaF—I	2
2520:222	AAF—II	2
2520:234	Humor in Advertising	2

# **NETWORK TECHNOLOGY**

The Network Technology Certificate provides the network administration and technical support skills needed by a variety of computer specialists in business and industry.

#### Requirements

2440:269	C Programming and Unix	3
2440:270	Novell Network Management	4
2440:272	Novell Network Technologies	2
2440:274	Novell Network Service and Support	4
2440:276	Novell Network Management	4

**Note:** The required courses listed above carry prerequisites that must be honored except by the written permission of the program coordinator.

# **OFFICE ADMINISTRATION**

## **Administrative Assistant**

#### Requirements

This 32 credit program is designed for the individual who has had previous college training and/or extensive office experience and who wishes to add administrative secretarial skills to enhance career opportunities. The student will develop effective letter writing ability, use new office machines and correlate secretarial skills and administrative ability.

2040:251	Human Behavior at Work	3
2420:103	Essentials of Management Technology	3
2540:265	or Women in Management	3

		Credits
2420:211	Basic Accounting I	3
2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:129	Information/Records Management	3
2540:151	Intermediate Word Processing	3
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:270	Office Software Applications	4

# **Office Information Management** (Inactive)

#### Requirements

This 28 credit program emphasizes the expertise needed to operate automated office equipment. It provides students with hands-on experience using automated devices including microcomputers, facsimile devices, micrographics systems, telecommunications and transmission equipment, as well as the knowledge needed to manage the information generated by this equipment.

#### Courses

2540:129	Information/Records Management	3
2540:130	Introduction to Office Automation	4
2540:131	Computerized Document Control	4
2540:247	Automated Office Systems	4
2540:248	Advanced Office Technologies	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:270	Office Software Applications	4

## Word Processing

#### Requirements

This 26 credit program is designed to enable the student who has some beginning keyboarding skills to prepare for an entry-level job in word processing. Study focuses on the applied use of word processing procedures and equipment in a word processing office environment. All courses may be applied toward an associate degree in Office Administration.

#### Courses

2440:120	Computer and Software Fundamentals	2
2440:125	Spreadsheet Software	2
2540:119	Business English	3
2540:151	Intermediate Word Processing	3
2540:253	Advanced Word Processing	3
2540:263	Business Communications	3
2540:270	Office Software Applications	4
2540:271	Desktop Publishing	3
2540:281	Editing/Proofreading/Transcription	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 11 semester credits and four courses with a minimum 2.00 GPA from the list of acceptable courses or other courses identified by the director. Students must have prior consultation with the director of Pan-African Studies before undertaking the program.

The requirements are as follows:

3002:401	General Seminar in Pan-African Studies (A research paper in Pan-African Studies will be written in this course.)	3
3400:260	African-American People of the United States	3
Acceptable 0	Courses	
2040:254	The Black American	2
3002:301	The Civil Rights Movement in America 1945-1974	3
3002:401	General Seminar in Pan-African Studies	3

		Creaits
3002:420	Special Topics in Pan-African Studies	1-3
3250:486	Ghetto Economic Development	3
3300:350	Black American Literature	3
3300:389	United States Dialects: Black and White	3
3300:389	Special Topics: African-American Novel	3
3300:389	Special Topics: African-American Drama	3
3300:689	Special Topics: Seminar Wright/Ellison/Baldwin	3
3350:363	Africa South of the Sahara	3
3400:260	African-American People of the United States	3
3400:390	World Civilizations: Africa	2
3400:468	African-American Social and Intellectual History	3
3500:350	Special Topics: African Experiences in Latin America	3
3700:327	African Politics	3
3850:421	Racial and Cultural Intergroup 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

#### **Research Paper**

The research paper will: be written under the direction of a faculty member most suitable to the area of concern of the student's research interest; be one semester in duration; and be approved by that faculty member. The director of Pan-African Studies, in consultation with the faculty member, will approve the topic for the research paper.

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.

# PEACE STUDIES

For information, contact the office, located in Leigh Hall 201, (330) 972-6513.

The Center for Peace Studies offers two interdisciplinary programs, one leading to a Certificate in Peace Studies, the other to a Certificate in Conflict Resolution/ Management. Certificates awarded are in addition to any degree the student receives in his or her major field of concentration. Both programs are at the undergraduate level, but are open to post-baccalaureate students. All courses carry full academic credits. The programs are meant to add further dimensions to the student's major field. The awarding of a certificate is not contingent upon completion of a degree program.

# Admission Procedure

Students must:

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- · Be formally admitted as an undergraduate or be a post-baccalaureate student.
- · If undergraduate, receive concurrence from their major adviser to pursue this area of study
- Make formal application to the program through form available at the Center for Peace Studies.
- Schedule an interview with the Director of the Center for Peace Studies.

## **Peace Studies Certificate**

To satisfy the requirements for a certificate in Peace Studies, a student must complete at least 15 credits from the courses listed below. The courses must be distributed so that work will be included from three separate departments. Where specialized training is relevant to a particular student's interest, alternatives to those on the list of acceptable courses may be approved by the director.

#### Required courses (6 credits):

3003:301	Value Concepts on Peace and War	3
3400:380	Peace and War: The Historical Perspective	3

#### Elective Courses (9 credits)

3003:230	Introduction to Conflict Management/Resolution	3
3003:300	ST: Alternatives to Violence	3
3003:350	Independent Study in Peace Studies	1-3
3003:378	Introduction to Human Rights Concepts	3
3003:382	The Vietnam War	3
3003:390	Workshop in Peace Studies	1-3
3010:201	Man and the Environment	2
3250:385	Economics of Natural Resources and the Environment	3
3250:450	Comparative Economic Systems	3

3250:460	Economic Development and Planning for Underdeveloped Countries	3
3250:461	Principles of International Economics	3
3300:489	Seminar in 20th Century Literature and History	3
		Credits
3350:100	Introduction to Geography	3
3350:320	Economic Geography	3
3350:450	Development Planning in the Third World	3
3400:460	United States Diplomacy to 1919	3
3400:461	United States Diplomacy Since 1914	3
3400:474	The United States, Latin America and Imperialism	3
3400:438	Nazi Germany	3
3400:482	War and Western Civilization	3
3600:120	Introduction to Ethics	3
3600:324	Social and Political Philosophy	3
3700:220	American Foreign Policy	3.
3700:303	Introduction to Political Thought	3
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
3700:341	The American Congress	3
3700:405	Politics in the Middle East	3
3700:410	International Defense Policy	3
3700:415	Comparative Foreign Policy	3
3850:321	Population	3
3870:150	Cultural Anthropology	4
4100:203	Environmental Science and Engineering	2

## **Conflict Resolution/** Management Certificate

This program focuses on principles and skills for achieving non-violent resolution of conflicts and tensions. It consists of a minimum of 21 semester credit hours. Eleven of these must be at the 300/400 level.

#### **Required Courses (6 credits)**

3003:230	Introduction to Conflict Management/Resolution	3
3003:430	Integrative Approaches to Conflict Management/Resolution	3

#### **Basic Background Courses (6 credits)**

Choose two courses from the following list in consultation with adviser. This requirement is designed to provide general ideas and tools.

3003:378	Introduction to Human Rights Concepts	3
3600:120	Introduction to Ethics	3
3600:170	Introduction to Logic	3
3700:303	Introduction to Political Thought	3
3700:304	Modern Political Thought	3
3870:150	Cultural Anthropology	4
7600:235	Interpersonal Communication	3
7600:325	Intercultural Communication	3

## **Topical Courses (9 credits)**

Choose courses in one of the following areas. The area chosen need not be, but in most instances, will be related to a student's major or minor.

- Business/Economics/Labor
- Community/Social/Family
- Education
- History/Government/Politics

#### **Business/Economics/Labor**

2880:232	Labor Management Relations	3
3250:330	Labor Problems	3
3250:431	Labor and Government	3
3250:432	Economics and Practice of Collective Bargaining	3
3750:240	Introduction to Industrial/Organizational Psychology	4
3850:443	Industrial Sociology	3
6400:325	Business and Society	3
6500:301	Management: Principles and Concepts	3
6500:302	Introduction to Organizational Behavior	3
6500:341	Human Resource Management	3
6500:342	Labor Relations	3
6500:455	Management of Arbitration	3
6500:458	Managerial Arbitration, Mediation, Conciliation	1-3
6500:471	Management Problems	3
7600:344	Group Decision Making	3
7600:435	Communication In Organizations	3
Commun	ity/Social/Family	

#### Community/Social/Family

	O 1 M Los and O initial Losian Decessor	
2220:110	Social Values and Criminal Justice Process	3

2260:280	Fundamentals of Volunteer Management	3
3750:340	Social Psychology	4
3750:435	Cross Cultural Psychology	4
		Credits
3850:315	Sociological Social Psychology	3
3850:320	Social Inequality	3
3850:335	Social Behavior in Organizations	3
3850:341	Political Sociology	3
3850:421	Racial and Ethnic Relations	3
3870:461	Language and Culture	З.
3870:463	Social Anthropology	3
7400:201	Courtship, Marriage and the Family	3
7400:362	Family Life Management	3
7400:401	Family Life Pattems 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 for Social Workers	3
Education		
3850:442	Sociology of Education	3

3850:442	Sociology of Education
5300:460	Classroom Dynamics
5550:194	Sports Officiating
5610:456	Special Education Programming: Severe Behavior Handicapped
5630:483	Preparation for Teaching Culturally Different Youth
5850:204	Human Relations in Education

2

2

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#### History/Government/Politics

3250:450	Comparative Economic Systems	3
3250:460	Economic Development and Planning for Underdeveloped Countries	3
3400:460	U.S. Diplomacy to 1919	3
3400:461	U.S. Diplomacy since 1914	3
3600:324	Social and Political Philosophy	3
3700:220	American Foreign Policy	3
3700:310	International Politics and Institutions	4
3700:326	Politics of Developing Nations	3
3700:341	The American Congress	3
3700:415	Comparative Foreign Policy	3
3700:461	Supreme Court and Constitutional Law	3

# **PLANNING WITH AN EMPHASIS ON CITY OR REGIONAL RESOURCE** STUDIES

Charles Monroe, 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 С

Complete five of the following:				
Introduction to Economic Analysis	3			
Economic Geography	3			
Introduction to Planning	3			
	Introduction to Economic Analysis Economic Geography			

3350:495	Soil and Water Field Studies	3
3370:200	Environmental Geology	3
3400:436	The American City	3
		Credits
3700:210	State and Local Government and Politics	3
3700:380	Urban Politics and Policies	4
3850:425	Sociology of Urban Life	3
4300:450	Urban Planning	2

#### 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.

# 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

i vgi uli	•	
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., CSE, Coordinator

This certificate program provides students with the opportunity to develop and document professional selling skills. It is especially appropriate for students pursuing non-business baccalaureate degrees with an interest in technical sales careers upon graduation. It is also a valuable means for postbaccalaureate students to learn professional selling skills in order to enhance their employment potential.

#### Requirements

A total of 15 credit hours are required for the certificate program. The student must complete 9 credit hours of required courses. In addition, 6 credit hours must be selected from a list of electives. Students should contact the Director of Undergraudate Studies in Business for information on transfer credit and to request that notation of the certificate be included on the student's transcript upon completion of the 15 credits.

#### Program

<ul> <li>Required: Complete all 9 credits</li> </ul>		Credits
6600:300	Marketing Principles	3
6600:375	Professional Selling	3
6600:475	Business Negotiations	3
Elective: Select any 6 credits		
6600:350	Advertising	3
6600:355	Buyer Behavior	3
6600:370	Purchasing	3
6600:470	Business to Business Marketing	3
6600:480	Sales Management	3
7600:235	Interpersonal Communication	3
7600:252	Persuasion	3

# PROGRAMMING SKILLS ENRICHMENT

The Programming Skills Enrichment Certificate is designed to update the skills and qualifications of the experienced programmer through a selection of courses reflecting recent advances in computer software and development tools.

The student should select 12 hours from the following courses:

2440:125	Spreadsheet Software	. 2
2440:151	PC DOS Fundamentals	1
2440:220	Software Application for Business	2
2440:235	Current Programming Topics	2
2440:243	Information Center Practicum	3
2440:247	Microcomputer Hardware and Software Section	3
2440:252	Job Control Language	2
2440:262	COBOL Efficiency	2
2440:263	Data Base Concepts	3
2440:267	4GL for Micros	3
2440:269	C Programming and UNIX	2

# **REAL ESTATE**

#### Requirements

#### Prelicensing 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 prelicensing 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

Prelicensing	g - Sales	Credits			
2430:105	Real Estate Principles	2			
2430:185	Real Estate Law	2			
2430:245	Real Estate Finance	2			
2430:255	Valuation of Residential Property	2			
Certificate and Pre-Licensing - Broker					
2430:105	Real Estate Principles	2			
2430:185	Real Estate Law	2			
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 course					
2040:242	American Urban Society	3			
2420:170	Business Mathematics	3			
2420:202	Personnel Practices	3			
2430:115	Elements of Housing Design and Construction	2			
2530:125	Elements of Land and Real Estate Development	2			
2430:205	Introduction to Real Estate Management	3			
2430:215	Essentials of Real Estate Economics	2			
2430:225	Industrial Real Estate	2			
2430:235	Commercial Real Estate	2			
2440:120	Computer Software Fundamentals	3			
2520:103	Principles of Advertising	3			

# **RETAIL MARKETING**

Dale M. Lewison, Ph. D., Coordinator

This certificate program provides students with the opportunity: (1) to learn and apply the basic concepts, processes, and practices of retail marketing, (2) to develop and document the foundation skills needed to successfully complete the basic operating functions of a retail business and (3) to understand and appreciate the types of workplace competencies needed to be successful in the retailing industry. This certificate program is especially appropriate for students pursuing non-business degrees with an interest in working within the retailing industry. It is also a valuable means for postbaccalaureate students to gain additional training in order to enhance their potential for employment or promotion.

## Requirements

A total of 15 credit hours is required for the certificate program. The student must complete 12 credit hours of required courses. In addition, a 3-credit hour course must be selected from a list of electives

## Program

Required: Complete all courses - 12 credits

	6600:300	Marketing Principles	3
	6600:305	Essential of Retailing	3
	6600:309	Essential of Retail Merchandising	3
	6600:450	Strategic Retail Management	3
٠	Electives: Cor	nplete one course - 3 credits	
	6600:350	Advertising	3
	6600:355	Buyer Behavior	3
	6600:375	Professional Selling	3
	6600:390	Marketing Channels	3

# **RUSSIAN AREA STUDIES**

Barbara Clements, Ph.D., Coordinator

## 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	Soviet and East European Politics	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	Small Business Management and Operations	3
2420:170	Business Mathematics	3
2420:211	Basic Accounting I	3
2420:227	Entrepreneurship Projects	4
2420:280	Essentials of Business Law	3
2440:120	Computer and 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

2040:240	Human Relations	3		
2040:251	Human Behavior at Work	3		
One course must be taken from each of the following three categories:				

### Management Theory and Skills

2250:260	Administration in the Public Services (Inactive)	3
2420:103	Essentials of Management Technology	3
2880:100	Basic Principles of Manufacturing Management	4
Commun	ication 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	Business Mathematics	3

In addition to the above courses, a minimum of 6 credits must be completed from the following:

2040:247	Survey of Basic Economics	3
2420:121	Office Management	3
2420:202	Personnel Practices	3
2420:211	Basic Accounting I	3
2440:120	Computer and 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

# SURGEON'S ASSISTANT (Inactive)

The program provides skills necessary to function as a surgeon's assistant. It will enable students to meet short-range goals in acquiring skills for immediate job placement. Limited to persons already holding an associate degree in Surgical Technology. Holders of this certificate are eligible to take CSA exam offered by the NSAA, and if they are CST can take the LCCST Surgical First Assistant exam. Selective Admission.

		Cieuns
2770:153	Clinical Experience III	5
2770:243	Introduction to Medicine	2
2770:244	Medical History and Physical Evaluation	2
2770:245	Roentgenorgram Assessment	1
2770:246	Medical Laboratory Procedures	1
2770:247	Pulmonary Assessment: EKG	2
2770:249	Surgical Anatomy II	3
2770:254	Clinical Experience IV	3
2770:255	Clinical Experience V	5
2770:256	Primary Care: Clinical Experience	2

# SURGICAL TECHNOLOGIST

Melanie Ditchey, B.S.A.S., A.A., CSA, CST

The program provides skills necessary to function as a surgical technologist and all the courses needed to sit for the certifying exam. It will enable students to meet short-range goals in acquiring skills for immediate job placement. A certificate may be earned independent of earning a degree.

2740:120	Medical Terminology	3
2740:230	Basic Pharmacology	3
2770:100	Introduction to Surgical Assisting Technology	4
2770:121	Surgical Assisting Procedures I	2
2770:131	Clinical Application )	2
	or	
2770:151	Clinical Experience I*	
2770:148	Surgical Anatomy I	3
2770:222	Surgical Assisting Procedures II	4
	or	
2770:249	Surgical Anatomy II*	
2770:232	Clinical Application II	5
	or	
2770:152	Clinical Experience II*	
2770:233	Clinical Application III	5
3100:130	Principles of Microbiology (Lab)	3
3100:208	Human Amatomy and Physiology (Lab)	4
3100:209	Human Anatomy and Physiology (Lab)	4

Clinical Experience I and II will be accepted in place of Clinical Applications I and II for students who have completed the Surgeon's Assistant Option. Surgical Anatomy II will be accepted in place of Surgical Assisting Procedures II for students who have completed the Surgeon's Assistant Option.

# 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

This certificate requires the completion of four core courses and two elective courses for a minimum of 18 credits.

### Core

0010		
3300:473	Special Topics: Teaching ESL: Theory and Method	3
3300:489	Special Topics: Grammatical Structures of English	3
5630:481	Multicultural Education in the U.S.** or	3
3300:489	Special Topics: Sociolinguistics**	3
5630:487	Techniques for Teaching ESL	3
Electives		
3300:371	Introduction to Linguistics	3
3300:389	Special Topics in 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
3870:461	Language and Culture	3
5630:485	Teaching Reading and Language Arts to Bilingual Students	4
7600:325	Intercultural Communication	3
7700:230	Speech and Language Development	3
7700:430	Aspects of Normal Language Development	3

# **TECHNICAL TRAINING**

Persons are eligible for admission to the Certificate in Technical Training if they have been admitted to study as special, non-degree or full-time students in any department of the University. Undergraduate students will earn the certificate upon graduation from their degree program. Individuals who already hold undergraduate degrees or graduate degrees may also pursue the certificate. Students with an undergraduate degree and who do not seek a graduate degree may pursue the certificate at the post-baccalaureate level. Students enrolled in the undergraduate and post-baccalaureate program will enroll in the courses at the undergraduate level.

Those formally admitted to The University of Akron and meeting the Certificate entrance requirements may pursue the Certificate in Technical Training. 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 Technical Education Program.

### Requirements

Minimum: 18 credit hours

5100:420 Introduction to Computer-Based Education

3

- \*\* Choice to be decided in consultation with the program director.
- # May not be taken both as an elective and as a core course.

<sup>†</sup> 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.

5400:400	The Postsecondary Learner	3
5400:403	Practicum Seminar in Technical Education	2
5400:415	Training in Business/Industry	3
5400:430	Curriculum Development in Technical Education	2
5400:431	Curriculum Development in Technical Education/Lab	1
5400:435	Instructional Techniques in Technical Education	4

**NOTES:** The Practicum course is the last taken and cannot be taken until all other certificate courses have been completed with a 3.0 GPA or better. 5400:430 and 5400:431 must be taken together and 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.

# **TRAVEL AND TOURISM**

The certificate program in Travel and Tourism will provide intensive training in the management of travel. It is designed for those individuals interested in acquiring the basic skills necessary in travel agency operations. This certificate may be earned independent of earning a degree.

A minimum of 15 semester hours is required.

### **Required courses:**

		Liedits
2560:110	Principles of Transportation	3
2560:116	Air Transportation	2
2560:228	Introduction to Travel	2
2560:229	Passenger Ticketing	2
2560:230	Tour Planning and Packaging	2
2560:231	Computerized Reservations I	2
2560:232	Computerized Reservations II	2

# VOLUNTEER PROGRAM MANAGEMENT

This program is intended for individuals who wish to enhance their knowledge of volunteer program management. As community and social service organizations continue to rely on knowledgeable, well-trained volunteers, the role of the manager of the volunteer programs continues to be highly valued. 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 in a social/community service organization, especially with volunteers.
- The person with a degree who has not had specialized training, but would like to be a director/coordinator of an organization's volunteer program.
- Those persons working in or with volunteer programs who would like to upgrade their knowledge and skills.

Persons interested in this program should consult with the Chair of Community Services Technology.

This certificate may be awarded independent of a degree.

### Requirements

Credits

equiren	icits	Credits
2260:100	Introduction to Community Services	3
2020:121	English	4
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community and Social Services	5
2260:280	Fundamentals of Volunteer Management	3
2260:281	Recruitment and Interviewing Volunteers	3

# 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.

### Program

### Requirements

Total Credits Required: 19

Crodits

### Core:

3001:300	Introduction to Women's Studies	3
3001:480	Feminist Theory	3
3001:490	Women's Studies Lecture Series	1

### 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.

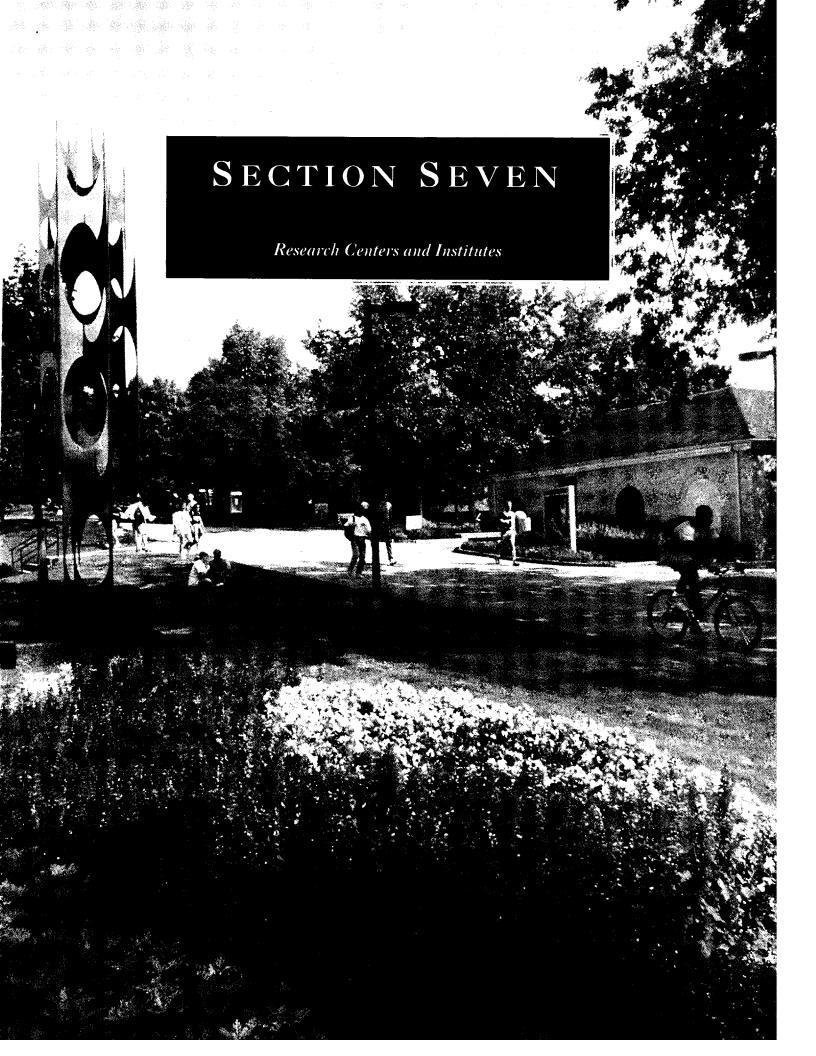
### Humanities

3001:493	Individual Studies on Women	1-3
3300:282	Drama Appreciation: Women in Modern Drama	3
3300:386	Women in Modern Novels	3
3300:389	Special Topics: Ethnic Women in Literature	3

# 178 The University of Akron 1997-98

		Credits
3300:389	Special Topics: Women Writers	3
3300:489*	20th Century Women Writers	3
Social Scie	nces	
3250:440*	Special Topics: Women in the Labor Force	3
3400:325	Women in Modern Europe	3
3400:350	Women in the U.S.	3
3400:364	American Family History	3
3400:383	Soviet and U.S. Women in the 20th Century	3
3400:400	Women in Revolutionary China	3
3700:392	Selected Topics in Political Science: Future of Women in World Politics	3
3700:392	Selected Topics in Political Science: Women and Empowerment in American Politics	3
3700:480*	Policy Problems: Women and Health	3
3750:480	Special Topics: Psychology of Women	4
3850:344	The Sociology of Sex Roles	3
3850:423*	Sociology of Women	3
Fine and A	pplied Arts	
7400:201	Courtship, Marriage, and Family Relations	3
7400:442	Human Sexuality	3
7600:408*	Women, Minorities and News	3
7600:450	Special Topics: Women, Minorities, and Film	3
7750:411*	Women's Issues in Social Work Practice	3
7750:480*	Special Topics: Gay and Lesbian Issues	3
Electives in E	ducation, Institute for Life-Span Development, Comm	unity
and Technica	I College, and Women's Studies Workshops	
2200:290	Special Topics: Women and Chemical Dependency	2
2540:265	Women in Management	3
3001:100	Social and Cultural Diversity in the U.S.	3
3001:110	Multicultural Sensitivity Training	1
3001:490	Workshop: Women, Minorities, and Media	3
3001:490	Workshop: Women's Studies Lecture Series	1
3006:490	Workshop: Women in Mid-Life	2
5100:480	Special Topics:	
	Historical and Current Perspectives on the Education of Women	3

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# **Research Centers** and Institutes

# **University Research Council**

C.S. Chen, Ph.D., Interim Associate Vice President of Research and Technology Transfer (Interim Chair)

Noel L. Leathers, Ph.D., Interim Senior Vice President and Provost Ted Mallo, J.D., Vice President and General Counsel; Secretary, Board of Trustees

Frank Kelley, Ph.D., Dean, College of Polymer Science and Polymer Engineering

Roger Creel, Ph.D., Interim Dean, Buchtel College of Arts and Sciences Charles Dye, Ph.D., Dean, Graduate School

Max Willis, Ph.D., Associate Dean, Research and Graduate Studies, College of Engineering

Virginia Gunn, Ph.D., Professor, Home Economics and Family Ecology Larry Martin, Ph.D., Associate Professor, English

Gerald Parker, Director, Research Services and Sponsored Programs

(Secretary)

James 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 Associate Vice President for Research and Technology Transfer, the Director of Research Services and Sponsored Programs, representatives of the Faculty Senate, various college deans and institute directors, and General Counsel. Sponsored research activities on campus are coordinated by the Interim Associate Vice President for Research and Technology Transfer 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 The University of Akron and its Department of Political Science. 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 govern-

ment agencies. The premise for this program is that the combined resources of the University, Northeastern 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 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**

Annabelle M. Foos, Ph.D., Interim 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 groups 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.

## **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: 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

## **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 Peace Studies**

For information, contact the office, 201 Leigh Hall, (330) 972-6513.

The Center for Peace Studies provides students with the opportunity for an interdisciplinary program of study in one of the related fields of international peace or conflict resolution and management. 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 in Peace Studies or a Certificate in Conflict Resolution/Management, respectively. The Center also sponsors workshops for teachers, special campus programs, and research projects. It also collaborates with community organizations and peace centers on other campuses.

### **Center for Small Business**

Jeffrey C. Dilts, Ph.D., Director

Established in 1973, the Center for Small Business (formerly the Small Business Institute) offers full management assistance counseling to area businesses through the utilization of senior students, working as advisors under the supervision of College of Business Administration faculty. Over 350 firms have been serviced by the Center since its founding.

## **Center for Urban Studies**

Nancy K. Grant, 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.

Using the talents of faculty, researchers, support 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.

This multidisciplinary approach encourages faculty and graduate student participation from all departments with an urban focus. A part of the Buchtel College of Arts and Sciences, the Center for Urban Studies provides the setting and facilities through which interested faculty and graduate students do 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 career participation.

### Fisher Institute for Professional Selling

Jon M. Hawes, Ph.D., C.S.E., *Director* James T. Strong, Ph.D., *Associate Director*  The Fisher Institute for Professional Selling was founded in 1993. Its mission is to enhance the image of the sales profession, to promote professional selling and sales management as a rewarding lifetime career, to provide high quality sales training and learning experiences, and to advance the knowledge of professional selling through the support of applied research.

# William and Rita Fitzgerald Institute for Entrepreneurial Studies

James E. Inman, L.L.M., 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. The Fitzgerald Institute also sponsors several outreach projects, such as the Center for Family Business, the Center for Small Business, and Students in Free Enterprise.

### Institute for Futures Studies

Gary Gappert, Ph.D., Director

The Institute for Futures Studies and Research exists to initiate and provide comprehensive programs in salient and vital policy research, including a structural framework which encompasses strategic planning, environmental scanning, trends analysis and other innovative research methods.

The Institute for Futures Studies and Research was established in 1978, with its focus on interdisciplinary courses, lectures, publications, and activities relating to relevant issues which will impact the future of the local, state, national, and international arenas. It cooperates with the Center for Urban Studies and other research institutes.

Through its relationship with the Department of Public Administration and Urban Studies and The Center for Urban Studies, the Institute has organized and produced several books relating to the urban future including Cities in a Global Society and The Future of Urban Environments. It has also sponsored major conferences on George Orwell, Aldous Huxley, and Edward Bellamy in cooperation with the Ohio Humanities Council.

### 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 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 Industrial Management (Personnel Option) with a Certificate in Gerontology.

Faculty fellows at the institute representing 23 University departments conduct research, and provide special courses, workshops, and seminars as well as participate in community research and demonstration projects. Students in the certificate programs carry out field placements at numerous community service settings.

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 for Policy Studies**

Jesse F. Marquette, Ph.D., *Director* AnneMarie Scarisbrick-Hauser, Ph.D., *Associate Director* Richard W. Stratton, Ph.D., *Interim Associate Director* 

The Institute for Policy Studies houses a number of programs, located in two units, the Urban and Policy Research Division and Institutional Research.

The Urban and Policy Research Division houses the University of Akron Survey Research Center with responsibility for external grant and contract research, research support for the Urban University Linkage Program, sponsored research for faculty, and internal University surveys. The research facility is equipped to facilitate telephone interviewing, mail surveys, focus group administration, intercept studies and personal interviews, database analysis, and computer assisted data entry and multiple method studies. Most of the work conducted at the Urban and Policy Research Division is on behalf of government or non-profit agencies. Institutional professional staff are available for consultation in the development of grant proposals and budgets.

The Urban and Policy Research Division (URPD) also has responsibility for the administration of the Ohio Board of Regent's Urban University Program (UUP) which links eight state universities to collaborate on the identification of urban problems and propose solutions designed to improve urban regions in Ohio. The University of Akron Urban University Program, in addition to the collaborative mission of the Ohio UUP, coordinates community oriented research and policy analysis. The URPD also houses an Ohio State Data center and coordinates GIS activities with the Department of Geography and Planning.

The Institutional Research Division has responsibility for research and analysis of University operations and assessment. The Institutional Research Division mission is to ensure the timely submission of all appropriate Ohio Board of Regents reports and to coordinate the development and maintenance of the appropriate data structures for the continuing analysis of university operations and assessment. The Institutional Research Division also maintains a regularly updated web site of institutional information.

# 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.

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 macromolecular 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, 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.

### **Process Research Center (PRC)**

Sunggyu Lee, Ph.D., *Director* Kathy L. Fullerton, Ph.D., *Assistant Director* 

The Process Research Center (PRC), founded in 1990, focuses on fundamental and applied research involving new chemical processes and novel materials.

The specialties of the PRC include chemical reactions, separation technology, new polymeric materials, biotechnology, and environmental engineering. In conjunction with this, the Center operates several scale-up and minipilot plant facilities.

The PRC aims at responding more positively to the needs of industries and enhancing cooperation between the University and industries. Great opportunities are available for both graduate and undergraduate students to conduct practical research.

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### Training Center for Fire and Hazardous Materials

David H. Hoover, Ph.D., Director

The Training Center for Fire and Hazardous Materials brings the University, government 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.

# SECTION EIGHT

Courses of Instruction

# Course Numbering System

# INDEX

Department of Developmental Programs 1020 Developmental Programs

## **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
- 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 Educational Technology
- 2210 American Sign Language Interpreting and Transliterating Technology
- 2220 Criminal Justice Technology
- 2230 Fire Protection Technology
- 2240 Commercial Art
- 2260 Community Services Technology
- 2270 Labor Studies
- 2280 Hospitality Management
- 2290 Legal Assisting Technology
- 2300 Commercial Photography
- 2420 Business Management Technology
- 2430 Real Estate
- 2440 Computer Programming Technology
- 2520 Marketing and Sales Technology
- 2540 Office Administration
- 2560 Transportation
- 2730 Histotechnology
- 2740 Medical Assisting
- 2760 Radiologic Technology
- 2770 Surgical Assisting
- 2780 Allied Health
- 2790 Respiratory Care
- 2820 General Technology
- 2840 Polymer Technology
- 2860 Electronic Engineering Technology
- 2870 Automated Manufacturing Engineering Technology
- 2880 Manufacturing Engineering Technology
- 2900 Instrumentation Technology
- 2920 Mechanical Engineering Technology
- 2940 Drafting and Computer Drafting Technology
- 2980 Surveying and Construction Engineering Technology

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Buch	tel College of Arts and Scie	ences	
3000	Cooperative Education	3450	Mathematics
3001	Women's Studies	3460	Computer Science
3002	Pan-African Studies	3470	Statistics
3003	Peace Studies	3480	General Mathematical Sciences
3005	Canadian Studies	3490	Engineering Applied
3006	Institute for Lifespan		Mathematics**
	Development and Gerontology	3500	Modern Languages
3010	Environmental Studies	3520	French
3100	Biology	3530	German
3110	Biology/N.E.O.U.C.O.M.**	3550	Italian
3120	Medical Technology	3570	Russian
3130	Cytotechnology	3580	Spanish
3150	Chemistry	3600	Philosophy
3200	Classics	3650	Physics
3210	Greek	3700	Political Science
3220	Latin	3750	Psychology
3250	Economics	3850	Sociology
3300	English	3870	Anthropology
3350	Geography and Planning	3980	Public Administration and Urban Studies**
3370	Geology		Urban Studies**
3400	History		
	ge of Engineering	4600	Mechanical Engineering
4100	General Engineering	4700	Mechanical Polymer
4200	Chemical Engineering	4000	Engineering Biomodical Engineering
4300	Civil Engineering	4800 4980	Biomedical Engineering
4400	Electrical Engineering	4900	Construction Technology
4450	Computer Engineering		
	ge of Education		
5000		5570	Health Education
5050	Teacher Education	5600	Educational Guidance
	Core Program		and Counseling
5100	Educational Foundations	5610	Special Education
5200	,	5620	School Psychology
5250 5300	Reading	5630 5700	Multicultural Education Educational Foundations
5300 5400	Secondary Education Technical and	5700	and Leadership
5400	Vocational Education	5800	Special Educational Programs
5550	Physical Education	5850	Educational Technology
5560	Outdoor Education	3030	Educational reciniciogy
5560			
Colle	ge of Business Administra	tion	
6000		6400	Finance
6100	General Business	6500	Management
6140	Finance for Non-Business	6600	Marketing
	Students	6700	Professional**
0000			

- 6800 International Business
- 6200 Accountancy 6300 Entrepreneurship

### **College of Fine and Applied Arts**

- 7000 Cooperative Education 7100 Art 7400 Home Economics and Family
- Ecology
- 7500 Music
- 7510 Musical Organizations
- 7520 Applied Music
- 7600 Communication

### **College of Nursing**

8000 Cooperative Education

### College of Polymer Science and Polymer Engineering 9841 Polymer Engineering

School of Law

\*\* Graduate-level courses only. See Graduate Bulletin.

- 9871 Polymer Science
- 9200 Law
- 8200 Nursing

7700 Speech-Language Pathology

and Audiology

7810 Theatre Organizations

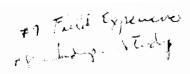
7910 Dance Organizations

7920 Dance Performance

7750 Social Work

7800 Theatre

7900 Dance



# **Department of** Developmental Programs

# DEVELOPMENTAL **PROGRAMS** (non-degree)

# 1020:

#### 042 BASIC WRITING

4 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

Prerequisite: Placement. An intensive review of arithmetic and an introduction to the concepts 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

Prerequisite: Basic Mathematics I (1020:050), or Placement. A brief review of arithmetic 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). Reading 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. Reading 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

#### 066 CRITICAL READING AND REASONING

2 load hours \*\* Prerequisite: Placement score on Reading test or ACT/SAT. Designed to aid students who have adequate basic reading skills but need to focus on the higher thinking skills. It will involve cognitive strategies that can bolster analytic thinking, retention, and test performance through selfmonitoring and decision-making. 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.

# 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 vocabulary and reading skills designed to develop the English reading ability of 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 laboratory and class instruction designed to improve the English listening skills of 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:

4 load hours\*

4 load hours \*\*

2 load hours\*

#### 100 UA STUDY ABROAD 12-20 credits 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. 191 SPECIAL TOPICS: GENERAL EDUCATION 1-4 credits

# 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 3 credits each (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

<sup>\*\*</sup> 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

# Army ROTC

# MILITARY SCIENCE

## 1600:

100 INTRODUCTION TO MILITARY SCIENCE | 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 optional. No military obligation incurred.

#### 101 INTRODUCTION TO MILITARY SCIENCE II

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 optional. 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

Study and application of the Leadership Development Program (LDP). Introduction to tactics, patrolling, and basic military skills. Leadership laboratory required. No military obligation incurred.

#### 300 ADVANCED LEADERSHIP I

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

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. Management and supervisory skills. Practical experience with the Leadership Development Program (LDP). Leadership laboratory required.

#### 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 purnals. Existing library resources are adequate to support the course. Basic Camp, Advanced Camp, Airborne, and other specialty schools qualify for course credit.

# Interdisciplinary **Programs**

# HONORS PROGRAM

### 1870:

2 credits

2 credits

3 credits

3 credits

3 credits

3 credits

1-3 credits

- 250 HONORS COLLOQUIUM: HUMANITIES
  - Prerequisite: admission to University Honors Program. Interdisciplinary colloquium on important issues in humanities

2 credits

- 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 3 credits 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. 1. 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.
- 301 MEDICAL SEMINAR AND PRACTICUM II 1-3 credits (May be repeated to a maximum of three credits) Prerequisites: 201 and permission. Continuation of 201 offered at an advanced level of professional involvement. Open to secondyear student in Phase 1 of B.S./M.D. program, others by permission.

#### 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 education offered by professionals. Intended to provide advanced undergraduate education and continuing education for student and practitioners in the health sciences. Graded CR/NCR

# COOPERATIVE EDUCATION

## 2000:

201 301 COOPERATIVE EDUCATION

(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 considered thought and writing. Includes inventive writing, essay structure, consideration of strength and source of evidence, and study of various options for development.

#### 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.

290 SPECIAL TOPICS: ASSOCIATE STUDIES

(May be repeated with a change in topic) Prerequisite: permission. Selected topics on subject areas of interest in associate studies.

# ASSOCIATE STUDIES MATHEMATICS

# 2030:

- 130 INTRODUCTION TO TECHNICAL MATHEMATICS
- 3 credits Elements of basic algebra; operations on signed numbers and polynomials; solutions and applications of first- and second-degree equations; English and metric systems; various types of graphs with applications; linear systems; trigonometry of right triangle. May not be used to meet General Studies mathematics requirement.

#### 151 ELEMENTS OF MATHEMATICS (

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. 2 credits

#### 152 ELEMENTS OF MATHEMATICS II

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.

#### ELEMENTS OF MATHEMATICS III

2 credits Prerequisite: 152 or equivalent. Complex fractions, exponents and radicals, binomial theorem, exponential and logarithmic functions. Arithmetic and geometric sequences, series optional.

#### 154 ELEMENTS OF MATH IV

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

Prerequisite: 154 or equivalent. The derivative, applications of the derivative, derivatives of the trigonometric, logarithmic, and exponential functions. Integration by antidifferentiation.

SPECIAL TOPICS: ASSOCIATE STUDIES MATHEMATICS 290 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.

#### 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:

0 credits

3 credits

1-4 credits

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.
- 244 DEATH AND DYING 2 credits Multidisciplinary approach to death and dying. Emphasis on coping with death and loss on the professional and personal levels.
- 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 AMERICAN

Prerequisite: 2020;121 or 3300:112. Examination of the black American including origins, historical achievements and present striving to achieve first-class citizenship in American society. Emphasis on analysis of forces in American society that create racial separation.

2 credits

3 credits

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 Progra

# EDUCATIONAL TECHNOLOGY

# 2200:

### 100 INTRODUCTION TO LIBRARY TECHNOLOGY

- Introduces student to library technology program and career opportunities available as library technologists. Includes discussions, field observations, guest speakers, lectures, readings, and extensive practical hands-on experience.
- 201 CATALOGING, CLASSIFYING AND PROCESSING MATERIALS 3 credits Study of principles of descriptive cataloging, Dewey decimal system, Library of Congress classifications and subject headings. Problems, practice in typing catalog cards and filing.
- 202 ORGANIZING AND OPERATING LIBRARY/MEDIA CENTERS 3 credits Includes functional aspects of facility, ordering and processing materials, circulation procedures and other control systems. Operational functions include program development and implementation, services of library/media centers and public relations.
- 203 MATERIALS SELECTION 2 credits introduction to tools used in selecting print and nonprint materials for libraries/media centers, Problems of censorship, intellectual freedom and academic freedom discussed as they relate to valuation selection process.
- 204 REFERENCE PROCEDURES 3 credits Introduction to study and use of basic information tools including almanacs, encyclopedias, dic-tionaries, bibliographies, yearbooks and specialized reference tools. Actual reference practices and procedures used
- 205 INFORMATION RETRIEVAL SYSTEMS IN LIBRARY TECHNOLOGY 3 credits Prerequisites: 201,204; or permission. Practical introduction to information retrieval systems and their application. Emphasis on Ohio College Library Center network and its impact on library technical and public services. Hands-on experience with OCLC and other on-line terminal operations

### 245 INFANT/TODDLER DAY-CARE PROGRAMS

3 credits Survey of infant/toddler development. Principles of infant/toddler care giving. Design of environment and curriculum based on child's needs. Includes observation of children, (20 field hours required)

- 250 OBSERVING AND RECORDING CHILDREN'S BEHAVIOR 3 credits Prerequisite: 7400:265 or permission. Develops observing and recording skills using different types of records and assesses children's development and behavior. (23 field hours required)
- 290 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-3 credits Prerequisite: permission. Selected topics on subject areas of interest in educational technology.
- INDEPENDENT STUDY 297 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

# AMERICAN SIGN LANGUAGE **INTERPRETING AND TRANS-**LITERATING TECHNOLOGY

### 2210:

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- 111 INTRODUCTION TO SIGN, DEAFNESS AND INTERPRETING SERVICES 3 credits An introduction to gesturing, American Sign Language, fingerspelling, the Deaf community. It's culture and the use of interpreting services.
- 112 AMERICAN SIGN LANGUAGE I 4 credits Beginning ASL interpersonal communication skills will be introduced through a functional-notional approach
- 114 AMERICAN SIGN LANGUAGE SEMANTICS AND STRUCTURE I 3 credits Prerequisite or corequisite: 112. Vocabularies and grammatical skills are developed through targeted sets of lexicons and structures in ASL.
- 122 AMERICAN SIGN LANGUAGE II 4 credits Prerequisite: Admission; 114. Advanced beginning ASL interpersonal communication skills will be continued through a functional-notional approach
- 124 AMERICAN SIGN LANGUAGE SEMANTICS AND STRUCTURE II 3 credits Prerequisite or corequisite: 122. Further development of vocabularies and grammatical skills through targeted sets of lexicons and structures in ASL.
- 126 ADVANCED FINGERSPELLING AND NUMBERS 2 credits Prerequisite: 114. Advanced fingerspelling and number skills. Focus will be on increasing accuracy, clarity, speed and rhythm in the application of comprehensive and production skills.
- 128 THE PROFESSION OF INTERPRETING 3 credits Prerequisite: 111. A working knowledge of interpreting, including its history, interpreting service models, ethical issues, and overview of settings for interpretation.
- 232 AMERICAN SIGN LANGUAGE III 4 credits Prerequisite: 124. Designed to provide students with an intermediate level of study and application of American Sign Language grammar/syntax, idiomatic expressions, and colloquialisms
- 234 TRANSLATIONS/INTERPRETING SKILLS: ENGLISH AND ASL 4 credits Prerequisite or corequisite: 232; corequisite: 236, required. A progression of developing intralingual skills in ASL and English from translations to introducing cognitive multi-tasking interpreting skills.
- 236 CONSECUTIVE INTERPRETING 4 credits Corequisite: 234, required. Consecutive interpretations of prepared and spontaneous texts from a progression of interpreting with substantial delays to immediate reconstruction at completion of the source message in the target language.
- 238 AMERICAN DEAF CULTURE 3 credits Prerequisite: 111. The culture of American Deaf communities, the roles and impact of sociolinguistic factors and oppression will be covered.

#### 242 AMERICAN SIGN LANGUAGE IV

4 credits Prerequisite: 236. Designed to provide students with an advanced level of study and application of American Sign Language grammar/syntax, idiomatic expressions, and colloquialisms

4 credits

3 credits

3 credits

- 244 SIMULTANEOUS INTERPRETING
- Prerequisite or corequisite: 242. Focus is on simultaneous multi-cognitive tasking skills with minimum time lag from the source message to target language.

#### 246 THE INTERPRETER IN THE EDUCATIONAL SETTING

Prerequisite or corequisite: 244. A working knowledge of interpreting/transliterating in the educational setting with application of manual code systems and technical vocabularies.

#### 248 INTERPRETING PRACTICUM I

1

2

2 credits Prerequisite or corequisite: 246. Provides the opportunity to integrate skills and knowledge through actual interpreting/transliterating in selected and controlled situations. Includes special communicative techniques with deaf consumers.

### 252 INTERPRETING PRACTICUM II

- Prerequisite: 248; corequisite: 254, required. This course provides the opportunity to integrate skills and knowledge through actual interpreting in a variety of practicum settings.
- 254 APPLIED SITUATIONAL INTERPRETING 4 credits Corequisite: 252, required. Professional interpreting issues, application of situational interpreting skills and individual preparation and feedback for certification
- 290 SPECIAL TOPICS: AMERICAN SIGN LANGUAGE INTERPRETING AND TRANSLITERATING TECHNOLOGY 1-5 credits

Selected topics on subject areas of interest in American Sign Language Interpreting and Transliterating Technology.

# 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.
- INTRODUCTION TO SECURITY 4 credits Overview 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, 2840:100 and permission. Reconstruction of chronological sequence of a including searching, collection, preserving and evaluation of physical and oral evidence. Scientific approach to criminal investigation.
- ADVANCED CRIMINAL CASE MANAGEMENT 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.
- 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.
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- 294 CRIMINAL JUSTICE INTERNSHIP EVALUATION 1 credit Prerequisites: 100. Thirty credits and permission; corequisite: 2220:295. Analysis by student and instructor of internship experience. A sharing of knowledge gained by student during internships.
- **CRIMINAL JUSTICE INTERNSHIP** 295 3 credits Prerequisites: 100. Thirty credits and permission. Supervised work experience in criminal justice 1 agency for purpose of increasing student understanding of criminal justice process
- 296 CURRENT TOPICS IN CRIMINAL JUSTICE 3 credits Prerequisite: 100. A variety of course topics on current subjects relative to law enforcement and the Criminal Justice System.
- 297 INDEPENDENT STUDY: CRIMINAL JUSTICE 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
- 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.
- PRINCIPLES OF FIRE PROTECTION AND LIFE SAFETY 153 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 FIRE SUPPRESSION AND EMERGENCY RESPONSE METHODS 4 credits Efficient and effective utilization of human resources, equipment and apparatus. Emphasis on preplanning, fireground organization problem solving related to fireground decision making and attack tactics and strategy

#### 204 FIRE HAZARDS RECOGNITION

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 FIRE 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 PROTECTION FOR BUSINESS AND INDUSTRY 3 credits Industrial fire protection problems including specialized hazards, automatic extinguishing systems, codes and standards, fire safety planning, fire brigade organizations.
- 280 FIRE SERVICE ADMINISTRATION 4 credits 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 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in fire protection technology.

#### 295 FIRE PROTECTION INTERNSHIP

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 knowledge gained during internship.

#### 297 INDEPENDENT STUDY: FIRE PROTECTION

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 Q arrangements

# **COMMERCIAL ART** (Inactive) 2240:

124 DESIGN IN COMMERCIAL ART 3 credits Projects in visual design fundamentals. Analysis of design/research process applied to advertising layout and composition. Design constructions in pattern and self-contained forms

#### 130 MARKER RENDERING

3 credits Prerequisites: 124, 7100:131, 7100:132. Teaches drawing and rendering skills using markers and common visual languages necessary for communication with design professionals. Projects on various papers for comprehensive studio knowledge.

### 140 TYPOGRAPHY AND LETTERING

Prerequisite: 124. Letter symbols studied in terms of communication and aesthetic design. History of letter forms, type indication, copyfitting and type specification for commercial application. Analysis of contemporary typefaces.

### 242 ADVERTISING LAYOUT DESIGN

Prerequisite: 130 and 140. Problems in commercial graphic design, analysis, research, visual experimentation and finished art. Emphasis on visual problem solving in advertising and communications

245 DESIGNING FOR PRODUCTION

Prerequisites: 140, 7100:132. Analysis of design process as applied to commercial printing processes. Design projects taken to camera-ready art. Color separation systems, key-line, mechanicals and preparation of finished art procedures.

3 credits

1-3 credits

### 247 PACKAGING DESIGN

3 credits Prerequisites: 242 and 245. Visual design and development of protective devices for packaging shipment and display of consumer products. Analysis of product marketing potential and pointof-purchase advertising

#### 248 PUBLICATION DESIGN 3 credits Prerequisites: 242, 245 and 122. Study of publications and design of promotional brochures, annual reports and other multi-paged communication devices. Emphasis on total design sys-tems from concept to camera-ready art. Portfolio development.

250 ADVANCED COMMERCIAL PHOTOGRAPHY 3 credits Prerequisites: 210 and 224. Students explore advanced techniques within a commercial photog raphy specialty of their choice while producing photographs for a commercially oriented portfolio.

252 PROFESSIONAL PHOTOGRAPHIC PRACTICES 3 credits Prerequisites: 210 and 224. Students confront the business and marketing practices unique to the commercial photography industry while producing a photographically oriented self-promotional campaign

#### 290 SPECIAL TOPICS: COMMERCIAL ART

1-3 credits Prerequisite: permission of instructor. Selected topics or subject areas of interest in commercial art

#### PRACTICUM IN COMMERCIAL ART 295

(Repeatable for a maximum of nine hours.) Prerequisite: 7100:231, 232, 233. Controlled by portfolio competition or permission of the instructor. Provides experience through an internal design and production studio. Involves responsibilities for the design and production of communication materials. Includes organizational, accounting and managerial responsibilities.

# COMMUNITY SERVICES TECHNOLOGY

# 2260:

3 credits

3 credits

4 credits

1-3 credits

3 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. Students are required to do 105 hours of volunteer work.
- 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 feild work and on the job. Topics include appropriate professional behavior, using supervision effectively and workplace competencies.
- 210 CHEMICAL DEPENDENCY AND PREVENTION I 4 credits In-depth understanding of prevention/education programming, with emphasis on: targeting high-risk individuals; program models; program effectiveness; amd community/school needs, expectations, capabilities and limitations
- 211 CHEMICAL DEPENDENCY AND PREVENTION II 4 credits Development of skills in prevention/education program development for schools, communities and agencies; experiential emphasis on developing personal effectiveness as a prevention/education provider
- 212 TECHNICAL EXPERIENCE IN CHEMICAL DEPENDENCY EDUCATION AND PREVENTION 5 credits Placement in community and social service agencies for supervised experience with concepts and skills from academic studies. Students required to complete 200 hours of field experience.
- 213 PREVENTION/EDUCATION INTERNSHIP 4 credits Integrates advanced prevention service provider experience with concepts and skills from acad-1 emic studies. Students required to complete 200 hours of field experience.
- 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 commu nity-based services and practical aspects of operation of a residential facility.

#### 232 ADVOCACY FOR THE DISABLED

3 credits Working with disabled individuals. Includes legal rights, advocacy roles, civil commitment, guardianship, housing, employment, and health-care needs.

### 240 CHEMICAL DEPENDENCY I

Basic introduction to drug use and abuse. Includes pharmacology, basic helping and crisis intervention skills, motivations, theories of treatment, and exploration of some typical drug crisis situations.

#### 241 CHEMICAL DEPENDENCY II

Prerequisite: 240 or permission. Continued in-depth exploration of drug usage patterns, causes of chemical abuse and treatment modalities. Skills to develop alternatives to drug abuse are studied and rehearsed.

### 251 COMMUNITY SERVICES FOR SENIOR CITIZENS

Prerequisite: 150. A study of national and community resources for social service delivery to senior citizens. Specific agencies, program needs and senior citizens and resultant services.

#### 252 RESIDENT ACTIVITY COORDINATION

Designed to prepare student to qualify as resident activity coordinator in Ohio nursing homes. General topics include: assessing and understanding the patient, administration of activities program and techniques of program planning.

#### 260 ALCOHOL USE AND ABUSE

Survey of use and abuse of alcohol in our society with particular emphasis on replacing common stereotypes, myths and attitudes with improved understanding.

#### 261 ALCOHOLISM TREATMENT

Prerequisite: 260. Survey of theory and practices in treatment of alcohol problems. Special emphasis on applicability and effectiveness of various resources and approaches

#### 262 BASIC HELPING SKILLS IN ALCOHOL PROBLEMS

Prerequisite: 278. Introduces the student to basic concepts of helping skills; provides opportunity to help; develops ability to give and receive feedback about relevancy and effectiveness of behavior; develops responsibility for their own learning as related to working with alcohol problems.

#### 263 GROUP PRINCIPLES IN ALCOHOLISM

Prerequisite: 260 or permission. Introduces student to group dynamics; provides opportunity to examine their role as group members; and explores unique factors in alcoholism that influence group treatment. Practical group dynamics sessions.

### 264 CHILDREN OF ALCOHOLICS

A didactic and experiential in-depth study of the characteristics, behaviors, problems, and programs of recovery of children and adults who have lived in an alcoholic home

#### 265 WOMEN AND CHEMICAL DEPENDENCY

3 credits Exploration of social, psychological, physical, and family consequences as contributing factors in the misuse of alcohol and drugs by women.

#### 266 SOCIAL SERVICE TECHNIQUES WITH CHILDREN AND FAMILIES

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

#### 273 CAREER ISSUES IN SOCIAL SERVICES III

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

Prerequisite: 150. Preparation for planning, adapting and implementing individual and group therapeutic activities to meet diverse psychological needs. Emphasizes program planning, motivational techniques and group work skills.

### 276 PRACTICUM IN THERAPEUTIC ACTIVITIES

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

Prerequisites: 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 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.

#### 280 FUNDAMENTALS OF VOLUNTEER MANAGEMENT

rerequisite: permission. For persons wishing to increase professional skills in volunteer administration. Includes setting goals, developing work plans, evaluating volunteer performance, recruiting volunteers, writing job descriptions, handling human relations problems, developing office procedures, keeping records, and evaluating volunteer program.

### 281 RECRUITMENT AND INTERVIEWING OF VOLUNTEERS

Prerequisite: 280 or permission. To provide knowledge for recruitment and interviewing of per-sons seeking volunteer positions. Will cover writing of volunteer job descriptions, methods of recruitment, techniques of interviewing; concentration on interviewing skills

#### 285 SOCIAL SERVICES PRACTICUM I

Prerequisites: 122, 172 and 273. Supervised field placement in a human service organization. Students apply classroom learning to actual helping situation, test career interests and gain practical, on-the-job experience.

287	SOCIAL SERVICES PRACTICUM II	1-4 credits
1	Prerequisites: 279 and permission of instructor. Integrates counselor assistant ep fundamental concepts and skills from academic studies. Students required to hours of supervised field experience.	
200	COURSELOR ASSISTANT INTERNATIO	4 0/00/03

Prerequisites: 172, 273, 285 and permission. Ssecond supervised field placement in a human service organization. Students apply classroom learning to actual helping situation, test career interests and gain practical, on-the-job experience.

#### TECHNIQUES OF COMMUNITY WORK I 4 credits 288

SPECIAL TOPICS: COMMUNITY SERVICES TECHNOLOGY 1-3 credits 290 Prerequisite: permission. Selected topics or subject areas of interest in community services technology

#### 294 SOCIAL SERVICES PRACTICUM SEMINAR

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.ß

#### 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.

# LABOR STUDIES (INACTIVE) 2270:

#### 101 INTRODUCTION TO LABOR STUDIES

206 COLINICELOD ACCISTANT INTERNICHIR

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

4 credits

4 credits

3 credits

3 credits

1 credit

3 credits

1 credit

3 credits

4 credits

5 credits

3 credits

3 credits

1-4 credits

3.4

297

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

- 111 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.
- 122 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.
- 123 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, unemployment compensation, TDI, civil rights and anti-discrimination, social security, labor management reporting, and disclosure.
- 212 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.
- 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.
- 224 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.
- 231 FAIR PRACTICES AND EQUAL OPPORTUNITY 2 credits 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.

#### 241 UNION LEADERSHIP 2 credits Prerequisite: 101. Specific skills related to administration of local unions structure and duties and

responsibility of officers. 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

WAGE ADMINISTRATION 261 3 credits 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.

- 271 PUBLIC SECTOR LABOR RELATIONS 3 credits Prerequisite: 101. Analyzes current problems, developments and issues in public sector collect tive bargaining from growth of public employee unions to the nature of bargaining in the public sector. Includes bargaining issues, right-to-strike and use of arbitration in public sector.
- 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.

1-3 credits

1-2 credits

A aradita

# HOSPITALITY MANAGEMENT

### 2280:

#### 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 3 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

Skills and basic knowledge of food preparation procedures in a laboratory situation.

122 FUNDAMENTALS OF FOOD PREPARATION II A 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 160

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

### 232 DINING ROOM SERVICE AND TRAINING

2 credits In-depth study of the styles of dining service, development of job descriptions, importance of courtesy, customer relations.

#### 233 RESTAURANT OPERATIONS AND MANAGEMENT

4 credits Prerequisite: 122, and 232 for restaurant management option. Additional prerequisites: 261 and 262 for culinary 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.

#### 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, cookies, specialty desserts and pies. Emphasis on equipment, formulas, ingredient selection and product quality evaluation.

### 268 REVENUE CENTERS

4 credits Prerequisite: 101. Techniques and production of quick breads, yeast products, cakes, cookies, specialty desserts and pies. Emphasis on equipment, formulas, ingredient selection and product quality evaluation ...

### 278 HOTEL CATERING AND MARKETING

rerequisite: 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. SPECIAL TOPICS: HOSPITALITY MANAGEMENT 290 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 299 Workshops offered to meet community training needs. 1-5 credits

3 credits

4 credits

3 credits

1 credit

# LEGAL ASSISTING TECHNOLOGY

## 2290:

### 101 INTRODUCTION TO LEGAL ASSISTING

- 3 credits 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.
- BASIC LEGAL RESEARCH AND WRITING 104 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 3 credits 106

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 divorce and dissolution of marriage including child support, custody, alimony, etc. Client interviewing is stressed. Juvenile court procedures are covered, including neglect and abuse.

- 118 PROBATE ADMINISTRATION 4 credits Prerequisite: 101. Covers law necessary to draft and interpret wills, trusts. Includes administration of a typical estate within Probate Court. Touches on guardianships, 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. Course covers bankruptcy, collection methods, consumer law, and credit. Course stresses law and procedures and the numerous forms that are part of this practice.

218 ADVANCED PROBATE ADMINISTRATION 3 credits Prerequisite: 101; 118. This is a continuation of 118 but will cover the more complicated trusts and estates and will stress both state and federal tax filings.

### 220 LEGAL ASSISTING INTERNSHIP

4 credits Prerequisite: 101; Student must have completed all first-year courses. Gives students experi-ence in law or law-related office. Students work 14 hours per week in their placement and meet regularly with the Internship Coordinator.

#### INDEPENDENT STUDY: LEGAL ASSISTING 297 3-5 credits

Prerequisite: 101. (May be repeated for a maximum of six credits.) Selected topics and special Ś areas of study in Legal Assisting Technology.

# COMMERCIAL PHOTOGRAPHY (Inactive)

## 2300:

- 122 INTRODUCTION TO COMMERCIAL PHOTOGRAPHY 3 credits Prerequisite: 7100:275. While working through a series of advertising-related photographic projects, students are introduced to the numerous commercial applications of studio and location photography.
- 160 PORTRAIT/FASHION PHOTOGRAPHY 3 credits Prerequisite: 122 and 7100:275. The fundamentals of commercial portraiture and fashion photography are explored through the study of styling, posing, lighting, and working with people.
- ILLUSTRATION/ADVERTISING PHOTOGRAPHY 3 credits Prerequisite: 122. Professionally oriented photographic skills are further developed as students confront assignments closely related to current trends in illustration and advertising photography.
- 230 MULTI-IMAGE PRODUCTION 3 credits Prerequisites: 160, 170, portfolio review. Students explore the equipment, techniques, and applications of multi-image presentations while producing a synchronized multi-projector A-V show
- 240 COMMERCIAL PHOTOGRAPHY PRACTICUM 3 credits Prerequisites: 160, 170, and portfolio review. Supervised work experience in commercial photography studio or lab to increase student understanding of commercial photography industry
- COMMERCIAL PHOTOGRAPHY PRACTICUM EVALUATION Prerequisites: 160, 170, and portfolio review. The student and instructor analyses of the practicum experience in commercial photography studio or lab.
- 250 ADVANCED COMMERCIAL PHOTOGRAPHY 3 credits Prerequisites: 160, 170 and portfolio review. Exploration of advanced techniques including specialty lighting, special effects, industrial/corporate and architectural photography. Emphasis on developing personal style and professional quality images.
- 260 PROFESSIONAL PHOTOGRAPHIC PRACTICES 3 credits Prerequisites: 160 and 170. Students confront the business and marketing practices unique to the commercial photography industry while producing a photographically oriented self-promotional campaign
- 270 COMMERCIAL PHOTOGRAPHY PORTFOLIO 1 credit Prerequisites: 230 and 250. Professional portfolio presentation techniques are explored and developed in preparation for seeking employment. Final portfolio presentations must pass a portfolio review
- 290 SPECIAL TOPICS: COMMERCIAL PHOTOGRAPHY 1-3 credits Prerequisite: permission of instructor. Selected topics or subject areas of interest in commercial photography.

# BUSINESS MANAGEMENT TECHNOLOGY

## 2420:

#### ESSENTIALS OF MARKETING TECHNOLOGY

Study of basic principles and methods in distribution. Presentation of marketing process as it relates to consumer and industrial products. Emphasis on pricing, product, promotion, as well as distribution

3 credits

3 credits

3 credits

2 credits

2 credits

3 credits

4 credits

2 credits

4 credits

### 103 ESSENTIALS OF MANAGEMENT TECHNOLOGY

Prerequisites: 170 and 2040: 240 and 2040:247; or permission. Presentation of basic management techniques; motivation, planning, organizing, leading and controlling. Elements of group behavior, communication and employee compensation.

### 104 INTRODUCTION TO BUSINESS

Survey course of business in its entirety including production, distribution, finance, control and personnel functions. Emphasis on descriptive materials, technical vocabulary and career opportunities and responsibilities in various business fields.

#### 105 INTRODUCTION TO CREDIT UNIONS

Credit union as financial institution. History, structure, duties of board of directors, advisory committees, financial counseling, lending and analysis, evaluation of financial statements.

#### 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.

#### 113 INTRODUCTION TO BANKING

Covers fundamentals of banking in operational perspective. Emphasis on bank functions, types of accounts, relationship to depositors, loans, investments trust, safe deposit operations, internal and external control, public service obligations.

#### 115 CREDIT UNION OPERATIONS

2 credits Operations with emphasis on teller transactions, credit principles, services and load policies, financial planning and counseling, delinquency control and collections, credit union law.

### 117 SMALL BUSINESS DEVELOPMENT

Prerequisite: 104. Fundamentals of small business operations, emphasis on small business marketing

### 118 SMALL BUSINESS MANAGEMENT AND OPERATIONS

Prerequisite: 117. Designed to provide greater insight into the management and financial aspects of small business operations. Emphasis on small business management.

#### 123 FEDERAL REGULATION OF BANKING 2 credits Corequisite: 113. Study of agencies regulating banks, bank charters, bank reports and examinations, federal limitations on banking operations and regulation of bank expansion. Supervision of employees to conform with regulation

### 125 PERSONAL FINANCIAL COUNSELING

amily resource management; consumer decision making including consumer credit and family budget decisions, retirement planning, types of insurance, annuities and savings, consumer education, types and techniques of counseling.

#### 170 BUSINESS MATHEMATICS

Review of fundamentals of mathematics applicable to business, trade prices, retail pricing, interest and discounts, compound interest and annuities, consumer credit, payroll, income taxes, depreciation methods, financial statements and elementary statistics.

### 202 PERSONNEL PRACTICES

Prerequisite: 103 or permission. Provides information necessary to develop policies and programs that attract, retain and motivate employees. Includes staffing, human resources development, compensation plans, labor and management relations, appraisal systems and career planning.

# 211 BASIC ACCOUNTING I

Accounting for sole proprietorships and partnerships. Service and merchandising concerns. Journals, ledgers, work sheets, and financial statements. Includes handling of cash, accounts receivable, notes, inventories, plant and equipment, and payroll.

Prerequisite: 211. Study of accounting principles as applied to corporate form of business, and of manufacturing accounting for job order and process costing, budgeting and standard costs.

#### 213 BASIC ACCOUNTING III

212 BASIC ACCOUNTING II

Prerequisite: 212. Study of information needs of management. Emphasis on the interpretation and use of accounting data by management in planning and controlling business activities

#### 214 ESSENTIALS OF INTERMEDIATE ACCOUNTING

Prerequisite: 212. Study of development of financial accounting theory and its application to problems of financial statement generation, account valuation, analysis of working capital, and determination of net income.

#### 216 SURVEY OF COST ACCOUNTING

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, preparation of returns, supporting schedules and forms for individuals and businesses. Federal, state and local taxes are discussed. The major emphasis of this course is on business taxes.

#### 225 CREDIT UNION LENDING AND COLLECTIONS

Credit and collections including nature and role of credit, types of consumer credit, their management and investigation, along with collection policies, practices, systems.

#### ENTREPRENEURSHIP PROJECTS 227

Prerequisite: 118. An overview of small business management. A project course during which students create a hypothetical business.

- 233 INSTALLMENT CREDIT 2 credits Prerequisite: 113. Pragmatic course emphasizing evaluation, maintenance of consumer, commercial credit. Covers evaluation, legal aspects, collection, direct and indirect installment lending, leasing and other special situations, credit department management.
- 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 CREDIT UNION FINANCIAL MANAGEMENT 2 credits Prerequisite: 211. Credit union accounting, financial statement analysis, budgeting and planning, management of cash and investments, liquidity, cost of funds, risk.
- 253 ELEMENTS OF BANK MANAGEMENT 2 credits Prerequisite: 113. Applied course in bank operation and management. Bank case studies utilized to focus on objectives, planning, structure, control, and interrelationship of bank functions and departments.
- 273 MONETARY SYSTEMS AND THE PAYMENTS MECHANISM 3 credits Prerequisite: 280. Structure of banking system, Federal Reserve System policies and operations, Article IV of the 4CC, paperless electronic payments mechanism, bank responsibilities in deposit, collection, dishonor and return, payment of checks.
- 280 ESSENTIALS OF BUSINESS LAW 3 credits Brief history of law and judicial system, study of contracts with emphasis on sales, agency, commercial paper and bailments.
- 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 2 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.

- 115 ELEMENTS OF HOUSING DESIGN AND CONSTRUCTION 2 credits Prerequisites: 105, 185. Discussions and readings on neighborhoods and sites, details of the interior and exterior of homes, mechanical systems and house construction which help professionals discharge agency responsibilities.
- 125 ELEMENTS OF LAND AND REAL ESTATE DEVELOPMENT 2 credits Prerequisites: 105, 185. Learning and applying step-by-step processes needed by professional developer in producing real estate for consumption.
- 185 REAL ESTATE LAW 2 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.
- 205 INTRODUCTION TO REAL ESTATE MANAGEMENT 3 credits Prerequisites: 105, 185. Survey course focusing on application of management process to the specialized field and product of real estate. Discussion and research topics include property analysis, marketing and administration.
- 215 ESSENTIALS OF REAL ESTATE ECONOMICS 2 credits Prerequisites: 105, 185. Student learns and applies techniques of analysis found in economics to local real estate market and to parcels of real estate found within the market.
- 225 INDUSTRIAL REAL ESTATE 2 credits Prerequisites: 105, 185. Elements course focusing on functions of industrial real estate broker. Topics of discussion and research include site selection, development, marketing, and financing transfer of industrial property.

#### 235 COMMERCIAL REAL ESTATE 2 credits Prerequisites: 105, 185. Elements course focusing on functions of commercial real estate broker. Topics of discussion and research include site selection, development, marketing, and

- financing transfer of commercial paper. 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.
- APPLIED REAL ESTATE MATHEMATICS 2 credits Prerequisites: 105, 185. Student learns and applies mathematics necessary to profession of real estate. Topics include proration of taxes, area calculations, appraising mathematics, mortgage mathematics, and closing statements.
- SPECIAL TOPICS: REAL ESTATE 1-3 credits Prerequisite: permission. Selected topics or subject areas of interest in real estate

# COMPUTER PROGRAMMING

## 2440:

- COMPUTER AND SOFTWARE FUNDAMENTALS 2 credits 120 Computer literacy course. Provides a general overview of current hardware, software, and processing environments. Includes hands on training in microcomputer applications and networks. 121 INTRODUCTION TO PROGRAMMING LOGIC 2 credits Corequisite: 120. Introduction to fundamental concepts of problem solving and developing pro-
- gramming logic, with emphasis on effective design of business application programs 125 SPREADSHEET SOFTWARE 2 credits
- Emphasizes mastery of spreadsheet applications using LOTUS 1-2-3.
- BASIC PROGRAMMING FOR BUSINESS 130 3 credits Introduces the student to the fundamental concepts of computer programming using the BASIC language. Emphasis is on developing computer programs on a microcomputer system.
- INTRODUCTION TO PROGRAMMING 2 credits Corequisite: 120. Teaches fundamental programming concepts in a high-level language such as Pascal. Also provides experience with on-line job submission for execution by main frame computers

### 132 ASSEMBLER PROGRAMMING

2 credits Prerequisite: 131. Emphasis on Basic Assembler Language and practical application programming using BAL.

- 133 STRUCTURED COBOL PROGRAMMING
- Prerequisite: 121. Introduction to COBOL with specific orientation to structured techniques
- 151 PC DOS FUNDAMENTALS 1 credit Includes instruction in the standard DOS commands as well as the use of batch files, autoexec files, subdirectories, and paths,
- 155 INTRODUCTION TO WINDOWS

Includes instruction in Microsoft Winbdows operating system, as well as subdirectories, data transfer, and file management.

### 220 SOFTWARE APPLICATIONS FOR BUSINESS

Prerequisites: 120 and 125. Emphasizes application software packages. The packages covered are selected according to current business needs.

- VISUAL BASIC 2 credits 230 Prerequisites: 121, 131 and 155. Introductory programming course using Visual BASIC Emphasis is on designing and implementing event-driven programs with Graphical User Interfaces
- 234 ADVANCED COBOL PROGRAMMING 3 credits Prerequisite: 133. Emphasizes advanced COBOL applications, including file organization concepts.
- 235 CURRENT PROGRAMMING TOPICS 2 credits Prerequisite: 133. Emphasizes new developments related to programming.

#### **RPG II/III PROGRAMMING** 239

Prerequisite: 121 or permission of coordinator. Report Program Generator (RPGII) programming. Includes coding and debugging business applications.

#### SYSTEMS ANALYSIS AND DESIGN 241

Prerequisite: 133. Covers all phases of business systems analysis, design, development, and implementation. Such principles as system flowcharting and file and document design emphasized.

#### 243 INFORMATION CENTER PRACTICUM

3 credits Prerequisite: 234 or permission. Students explore the information center concept in a business environment and acquire real world experience using and assisting others to use popular business-oriented software.

### 245 INTRODUCTION TO DATABASES FOR MICROS

Prerequisite: 120. Explains fundamental data base concepts and provides hands-on experience using database software.

#### MICROCOMPUTER HARDWARE AND SOFTWARE SELECTION 3 credits 247 Prerequisites: 125; 151; 245. Familiarizes students with the advantages and disadvantages of the microcomputer hardware and software available. Product comparisons, selection criteria, and evaluation are explored.

- 250 BASIC PROGRAMMING APPLICATIONS IN BUSINESS 5 credits Prerequisite: 130. Offers intensive training in business applications programming on microcom-puter systems including data analysis; text processing; error trapping; sorting; development of menu driven programs; ISAM file creation and upkeep.
- 251 COMPUTER APPLICATIONS PROJECTS 4 credits Prerequisites: 234 and 241. Provides workshop for the accomplished student to apply learned material. Projects involve systems design and implementation using COBOL.
- JOB CONTROL LANGUAGE Prerequisite: 234. Explanation of JOB, EXEC and DD statements and their associated parame-

ters. JCL procedures and overrides. 255 INTRODUCTION TO NETWORK ADMINISTRATION 3 credits

- Prerequisite: 120, 151. Introduces the student to Novell NetWare administration and modern communications concepts. Topics address planning the network file system, network security, and network management and support.
- CICS CUSTOMER INFORMATION CONTROL SYSTEM 3 credits 261 Prerequisite: 234. Basic concepts of CICS for on-line transaction processing.
- COBOL EFFICIENCY 2 credits 262 Prerequisite: 234. Provides students with opportunity to enhance their knowledge of the COBOL language. The development of COBOL, its facility for change and its place in today's businesses.

263 DATA BASE CONCEPTS

Prerequisites: 234, 241. Fundamental concepts of the main types of data-base management systems, their similarities and differences

265 PROGRAMMING ETHICS AND SECURITY 2 credits Prerequisite: 133. Legal principles specific to field of data processing; potential for computer-oriented crimes and security measures necessary for their prevention.

#### 266 BASIC FOR PROGRAMMERS

Prerequisite: 133 or permission of coordinator. To familiarize students with important program-ming techniques and concepts in BASIC language. Emphasis on complex interactive business applications programs using microcomputers.

### 267 4GL FOR MICROS

Prerequisite: 133. Provides instruction in the development of microcomputer systems using microcomputer database software.

3 credits

4 credits

1-5 credits

3 credits

2 credits

#### 269 C PROGRAMMING AND UNIX

3 credits Prerequisites: 132 and 133 or permission. Designing, coding, and executing C programs on the UNIX operating system. Assignments address business applications problems and include both interactive and batch processing

#### 270 NETWORK MANAGEMENT I

4 credits Prerequisites: 120, 151. In-depth instruction in basic and advanced network system administration. Topics address the network directory structure, menus, back-up procedures, printers, memory management, and multiple protocol support.

### 272 NETWORK TECHNOLOGIES

3 credits

1 credit

2 credits

2 credits

3 credits

3 credits

2 credits

3 credits

2 credits Prerequisites: 120, 151, Basic concepts of data communications, networking, and connectivity, Includes: OSI model; data translation; signal multiplexing and conversion; Ethernet, Token Ring, Arcnet, LocalTalk, and FDDI technologies.

### 273 NETWORK PRINTING

2 credits Prerequisites: 270 and 276. Learn how to manage a network printing environment from handson experience configuring workstations, customizing print jobs, and managing print queues, and remote printers

#### 274 NETWORK SERVICE AND SUPPORT

4 credits Prerequisite: 270. Focus on installing, maintaining, and troubleshooting LANs. Includes: operating system installation, LAN topologies and protocols, board configuration, cabling systems, and disk subsystems.

#### 275 TCP/IP FUNDAMENTALS

2 credits Prerequisite: 270 and 276. Learn how to install and configure TCP/IP software on a network; how to use Teinet and FTP; and how to troubleshoot common problems.

### 276 NETWORK MANAGEMENT II

Prerequisites: 120 and 151. In-depth instruction in global network system administration. Topics include security, auditing, printing, backup, performance optimization, and client services management.

- 278 NETWORK DIRECTORY DESIGN AND IMPLEMENTATION 2 credits Prerequisite: 270 and 276. Learn how to design and create a network implementation plan for a case-study company using proscribed templates and strategies.
- SPECIAL TOPICS: DATA PROCESSING 1-3 credits Prerequisite: permission. Seminar in topics of current interest in data processing or special individual student projects in data processing.
- 299 WORKSHOP Workshops offered to meet community training needs.

# MARKETING AND SALES TECHNOLOGY

## 2520:

103 PRINCIPLES OF ADVERTISING

Presrequisite: 2420: 101. Review of basic principles and functions of current advertising practice. Includes overview of related distributive institutions, media types and economic functions of advertising

106 VISUAL PROMOTION 3 credits 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, lettering, printing process, layout to camera-ready art.

#### 201 PRINCIPLES OF WHOLESALING 3 credits Examination of wholesaler and wholesaling function. Attention given to buying process and relationship of ultimate consumer to wholesaler.

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.

#### 203 FUNDAMENTALS OF INDUSTRIAL DISTRIBUTION 3 credits

Prerequisite: 2420:101. An introductory examination of the industrial distribution network and pertinent middlemen involved. Includes wholesalers, service institutions and other channel members

207 TECHNIQUES OF MERCHANDISING RESEARCH 2 credits Prerequisite: 2420:101. Introduction to merchandising research. Uses of research for merchandisers, concepts in planning research. Approaches to research in a non-mathematical approach to analysis. Case histories of small merchandisers.

#### 210 CONSUMER SERVICE FUNDAMENTALS

Prerequisite: 2420:101. Discussion of problems facing business today created by social issues in society. Emphasis on understanding viewpoints of all groups involved.

#### 211 MATHEMATICS OF RETAIL DISTRIBUTION

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

3 credits

2 credits

2 credits

2 credits

2 credits

1 credit

4 credits

2 credits

2 credits

2 credits

3 credits

3 credits

#### 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.

#### 215 ADVERTISING PROJECTS

Prerequisites: 103, 106. A workshop for students interested in developing their advertising and creative promotional skills. Projects would include "real world" situations facing prospective users of advertising.

#### 217 MERCHANDISING PROJECTS

Prerequisites: 2420:101; 202\*. Students would be charged with "creating" a retail operation including the establishment and defense of planning, site selection, merchandise and pricing, and promotion strategies

#### 219 SALES PROJECTS

Prerequisite: 212\*. Allows students to sharpen skills necessary to make an effective sales presentation. Extensive use of video-tape analysis. Team as well as individual sales presentations

221, 222 AAF ADVERTISING CAMPAIGN I, II Prerequisite: permission. These sequential courses have one function: to have students prepare an entry for the annual American Advertising Federation's Collegiate Advertising Competition.

#### 234 HUMOR IN ADVERTISING

Course looks at humor in our society and how and why it has been used by advertising practitioners; uses individual and group projects.

#### 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:

### 119 BUSINESS ENGLISH

3 credits 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 development.

#### 120 KEYBOARDING SKILL DEVELOPMENT

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 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, classifi cation systems, alphabetic rules, electronic database systems, and management and control of records systems.

#### COMPUTERIZED DOCUMENT CONTROL 131

Prerequisite: 130. A study of the planning and controlling of documents from the time of their creation until their final disposition with emphasis on automated storage and retrieval systems.

KEYBOARDING FOR NONMAJORS 2 credits 140 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.

#### 141 WORDPERFECT, BEGINNING

Prerequisite: Basic touch typing skills. Introduction to WordPerfect word processing software for non-majors. Training on personal computers for personal and business communications.

#### WORDPERFECT, ADVANCED 142

Prerequisite: 141 or permission.Intermediate and advanced skills of WordPerfect to include tables, importation of spreadsheets, outlines, advanced file management, macros, merges, labels and graphics.

#### MICROSOFT WORD, BEGINNING 143

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

2 credits 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 150

For the beginning student or one who desires a review of fundamentals. Includes basic key board, letters, tables and manuscripts. Minimum requirement: 30 wpm with a maximum of 5 errors for 5 minutes.

#### INTERMEDIATE WORD PROCESSING 151

Prerequisite: Permission. Further development of word processing skill. Advanced letter styles, forms, reports, and shortcuts. Minimum requirement: 40 wpm with a maximum of 5 errors for 5 minutes.

May be taken concurrently.

- 171 SHORTHAND PRINCIPLES 4 credits Gregg shorthand theory is taught. Minimum attainments: reading from notes at 100 warn and takino dictation from new material at 50 wpm for 3 minutes. Credit not allowed if taken after 172. Offered at Wayne Campus only.
- 172 SHORTHAND REFRESHER AND TRANSCRIPTION 4 credits Accelerated review of Gregg shorthand theory. Minimum attainments: reading from notes at 100 warn and taking dictation from new material at 60 wpm for 3 minutes. Credit allowed if taken after 171. Offered at Wayne Campus only.
- 173 SHORTHAND AND TRANSCRIPTION 4 credits Prerequisite: 171; corequisite or prerequisite: 151. Emphasis on developing skill in taking shorthand dictation and transcribing at typewriter. Minimum speed attainment of 70 wpm for 5 minutes on new material required. Offered at Wayne Campus only.
- INFORMATION MANAGEMENT 3 credits 241 Prerequisite: 150 or equivalent. Study of creation, classification, encoding, transmission, storage, retention, transfer and disposition of information. Emphasis on written, oral and machine language communication media used in business information systems. Offered at Wayne campus only.
- 243 INTERNSHIP 2-3 credits Prerequisites: 119: 121: 129: 130: 253: 270: and 281. Work experience in an office environment related to the student's degree major. Application of office administration skills/knowledge.
- AUTOMATED OFFICE SYSTEMS 247 4 credits Prerequisite: 131. Examination of automated methods of controlling information. Application of office information management techniques.
- ADVANCED OFFICE TECHNOLOGIES 3 credits 248 Prerequisites: 131; 247. Study and application of advanced automated office systems. Emphasis on the automation of administrative support functions.
- 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 L 3 credits Prerequisite: 151. Concentration on ethics, responsibilities, and document production for the career legal secretary
- 263 BUSINESS COMMUNICATIONS 3 credits Prerequisites: 119 and 2020:121 or equivalent. 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.
- 264 ADVANCED BUSINESS COMMUNICATIONS 3 credits Prerequisite: 263 or equivalent. Provides information about and practice in oral and advanced written communications to strengthen skills necessary in today's business world
- WOMEN IN MANAGEMENT 265 3 credits Deals with gender-related needs and problems of women in management and supervision.
- 270 OFFICE SOFTWARE APPLICATIONS 4 credits Prerequisites: 130; 253. An advanced course in document production incorporating databases, spreadsheets, and graphics into various types of documents. DESKTOP PUBLISHING
- 3 credits Prerequisites: 253 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 2440:155. 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.
- 279 LEGAL OFFICE PROCEDURES 4 credits Prerequisite: 255, Provides an understanding of various facets of the law, when and how to use documents, important legal procedures and typical office routine.
- 281 EDITING/PROOFREADING/TRANSCRIPTION 3 credits Prerequisites: 119;151; or permission. Editing and proofreading skills emphasized on the transcription of taped dictation, processing of rough-draft manuscripts, and drafting of original documents
- 289 CAREER DEVELOPMENT FOR BUSINESS PROFESSIONALS 2 credits Fundamentals of job search technique, professional image development and personal and interpersonal dynamics within the business environment
- 290 SPECIAL TOPICS: OFFICE ADMINISTRATION 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in office administration.
- WORKSHOP 1-5 credits Workshops offered to meet community training needs.

# TRANSPORTATION

# 2560:

#### 110 PRINCIPLES OF TRANSPORTATION

- 3 credits Analysis of role of transportation in nation's economic development. Survey of historical development 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.

3 credits

# 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

Prequisite: 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.
- 221 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.
- 227 TRANSPORTATION OF HAZARDOUS MATERIALS AND WASTES 2 credits Prerequisite: 110. Review of federal regulations covering hazardous material shipments; identification and classification of hazardous materials; marking; labeling; placarding; and documentation.
- 228 INTRODUCTION TO TRAVEL 2 credits Prerequisite: 110. Travel geography, overview of passenger transportation systems, role of travel agent, discussion of trends in travel industry.
- 229 PASSENGER TICKETING 2 credits Prerequisite: 228. Overview of the ticketing process and the use of the Official Airline Guide. Use and preparation of tour orders, ticket exchange notices, refund notices, and internal documents used by travel agent organizations.
- 230 TOUR PLANNING AND PACKAGING 2 credits Prerequisite: 228. Planning and packaging of independent and escorted tours. Cost estimating, time distribution, itinerary preparation and routing. Cruise, hotel, and rental car operations are also examined.
- 231 COMPUTERIZED RESERVATIONS I 2 credits Prerequisite: 228. Corequisite: 229. Hands-on experience in computerized reservation entries and applications. Course is offered off-campus at an area travel agency using a major airline reservations system.
- 232 COMPUTERIZED RESERVATIONS II 2 credits Frerequisite: 231. Continuation of 231. Advanced computerized reservations topics are examfined. Off-campus location.
- 290 SPECIAL TOPICS: TRANSPORTATION 1-3 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics, subject areas in transportation.

# HISTOTECHNOLOGY

# 2730:

225 HISTOTECHNOLOGY PRACTICUM 5 credits Prerequisites: 3100:366 and permission. Instruction and practical experience in a cooperative hospital, research laboratory.

290 SPECIAL TOPICS IN HISTOTECHNOLOGY 1-2 credits Prerequisite: permission. Selected topics or subject areas of interest

# **MEDICAL ASSISTING**

# 2740:

100	INTRODUCTION TO MEDICAL ASSISTING Medical assistant's role on allied health team, history of medicine, medical practice, me and ethics.	2 credits idical law	
120		3 credits	?
121	STUDY OF DISEASE PROCESSES FOR MEDICAL ASSISTING Prerequisite: 120. Study of diseases of major body systems.	3 credits	•
135	MEDICAL ASSISTING TECHNIQUES I Introduction to medical laboratory, theories and procedures essential for a assistant's career.	4 <i>credits</i> medical	
230	BASIC PHARMACOLOGY Overview of drugs used in a medical setting	3 credits	
235	MEDICAL ASSISTING TECHNIQUES II Prerequisite: 135. Advanced medical laboratory theories and practices essential for a assistant's career.	4 credits medical	

240 MEDICAL MACHINE TRANSCRIPTION

Prerequisites: 2540:151; 120. Designed to correlate word processing and typing skills necessary for the transcription of a physician's dictation.

- 241 MEDICAL RECORDS 3 credits Prerequisites: 2540:130; 120. Introduction to insurance procedures and codings used in a physician's office.
- 260 EXTERNSHIP IN MEDICAL ASSISTING
   3 credits

   7
   Prerequisites: permission. A period of practical experience held in the office of a gualified physician.
  - 290 SPECIAL TOPICS: MEDICAL ASSISTING Prerequisite: permission. Selected topics or workshops of interest in medical assisting technology.

# RADIOLOGIC TECHNOLOGY

## 2760:

- 101 INTRODUCTION TO RADIOLOGIC TECHNOLOGY 2 credits Prerequisite: admission to the program. Introduction to field of radiology including history of medicine 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 3 credits, 2 credits Sequential. Prerequisite: 161. Elementary principles of ionizing radiation and their application in medical setting. Radiographic accessories and chemical processing of exposed x-ray film.
- 170 RADIOGRAPHIC POSITIONING I 3 credits Corequisite: 101. Introductory course in instructing student in basic positioning nomenclature and radiologic positions. Positioning laboratory experience included.
- 171 RADIOGRAPHIC POSITIONING II 3 credits Prerequisite: 170. Continuation of 170. Includes additional positioning and refinement of positioning strategies. Laboratory.
- 184 CLINICAL APPLICATION I 4 credits 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 3 credits 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.
- 261 PHYSICAL SCIENCE FOR RADIOLOGIC TECHNOLOGY II 3 credits 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 3 credits 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.
- 288 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:

- 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.
- 121 SURGICAL ASSISTING PROCEDURES I 2 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 postoperative responsibilities and emergency situations in operating room.
- CLINICAL APPLICATION I 2 credits Corequisites: 100 and 121. Student assigned to surgical service of affiliated hospitals. Emphasis on aseptic techniques and skills associated with their implementation.
- 3 credits 148 SURGICAL ANATOMY I Corequisite: 3100:206. 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.
- CLINICAL EXPERIENCE I 151 2 credits Corequisites: 100, 121. Clinical experience in campus laboratory and surgical unit of affiliated hospitals. Emphasis on aseptic techniques, patient care concepts and suture techniques

### 152 CLINICAL EXPERIENCE II

3 credits Prerequisites: 100; 121; 151. Corequisite: 249. Students assigned to assist in surgery and carry out preoperative and postoperative care procedures under supervision of surgeon or resident surgical staff

#### 153 CLINICAL EXPERIENCE III

- Prerequisite: 152. Students assigned to surgical services of affiliated hospitals to assist in surgery and carry out preoperative and postoperative care procedures as assigned by, and under supervision of, surgeon or resident surgical staff.
- 222 SURGICAL ASSISTING PROCEDURES II 4 credits Prerequisite: 121. Continuation of 121.

### 232 CLINICAL APPLICATION II

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

Prerequisites: 232 and 222. Student assigned to surgical service of affiliated hospitals. Emphasis "scrubbing" in the specialty areas

#### INTRODUCTION TO MEDICINE 243

2 credits Prerequisite: 249. Pathophysiology, clinical manifestations, therapeutic management of surgically related disorders.

#### MEDICAL HISTORY AND PHYSICAL EVALUATION 244

Prerequisite: 249. Introduction to techniques of obtaining medical histories and physical evaluations. Techniques of interviewing and physical diagnosis.

### ROENTGENOGRAM ASSESSMENT

1 credit Prerequisite: 249. Roentgenogram assessment and its use as a diagnostic tool. Recognition of gross abnormalities in roentgenograms of the head, neck, chest, abdomen, pelvis, and extremities

#### 246 MEDICAL LABORATORY PROCEDURES

1 credit Prerequisite: 249, second year only. Introduction of collection, preparation, and analysis of biological fluids and other substances through standard procedures utilized in medical laboratories to aid the physician in diagnosis, treatment and prevention of disease.

### 247 PULMONARY ASSESSMENT AND ELECTROCARDIOGRAPHY

Prerequisite: 249, second year only. Oxygen administration, humidity control, breathing exercises, postural drainage, percussion techniques, intermittent positive pressure breathing, management of ventilators and bedside ventilation measurements. Electrocardiogram recording techniques, interpretation of electrocardiographic abnormalities-arrhythmias.

### 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

### 254 CLINICAL EXPERIENCE IV

3 credits Prerequisite: 153. Student assigned to surgical services of affiliated hospital to assist in surgery and carry out preoperative and postoperative care procedures as assigned by, and under supervision of, surgeon or resident surgical staff.

### 255 CUNICAL EXPERIENCE V

Prerequisite: 254. Student assigned to surgical services of affiliated hospitals to assist in surgery and carry out preoperative and postoperative care procedures as assigned by, and under supervision of, surgeon or resident surgical staff.

### PRIMARY CARE: CLINICAL EXPERIENCE

2 credits Prerequisites: 243: 244. Instruction in essentials of establishing a health status data base through patient interviewing and physical examination. Clinical practice in performance offered in real and/or simulated situation 1-2 credits

#### 290 SPECIAL TOPICS: SURGICAL ASSISTING

Prerequisite: permission. Selected topics or workshops of interest in surgical assisting technology.

# ALLIED HEALTH

# 2780:

- 101 INTRODUCTION TO PHYSICAL THERAPY 2 credits History of physical therapy, survey of treatment procedures. Role and rationale for physical therapist assistant. Legal, ethical responsibilities
- 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. (Will not satisfy General Studies science requirement.)
- 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:

5 credits

5 credits

5 credits

2 credits

2 credits

5 credits

- 121 INTRODUCTION TO RESPIRATORY CARE 3 credits 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 3 credits 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 3 credits Prerequisite: 122, 131, 141. Introduction to different brands of ventilators and their functions. Airway and airway complications.

#### 131 CUNICAL APPLICATIONS I 3 credits 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 2 credits Prerequisites: 122, 131, 141, 2780:107 (or equivalent). First of several rotations through hospitals. Mechanical ventilation is stressed.
- 133 CLINICAL APPLICATIONS III 5 credits 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: 2840:100 and 3100:130. Drugs administered by respiratory therapy and effect, route of action in the body. Lecture.
- 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 establish-
- ing 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 2 credits Introductory course describing various engineering technologies in terms of job skills, nature of careers, and employment opportunities. Overview of technical terminology.
- BASIC CHEMISTRY 3 credits 105 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.

### 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 3 credits 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 3 credits Prerequisite: 111 or permission. Chemical equilibria, ionization, radioactivity. Properties of selected metals and nonmetals. Introduction to organic chemistry. Basic concepts of gualitative analysis. Identifications of cations and anions. Laboratory.
- 121 TECHNICAL COMPUTATIONS 1 credit Prerequisite: 2030:151; corequisite for drafting technology students only: 2940:151. Use of computer 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. Emphasis will be on spreadsheets and databases to solve technical problems and incorporate results in technical reports. Limited to Engineering and Science Technology students
- 161 TECHNICAL PHYSICS: MECHANICS I 2 credits Corequisite: 2030:152. Principles of mechanics. Topics include force vectors, laws of motion, work-energy relationships, and equilibrium. Laboratory.
- 162 TECHNICAL PHYSICS: MECHANICS II 2 credits Prerequisite: 161; corequisite: 2030:153. Principles of mechanics. Topics include motion in a plane, momentum, rotation, harmonic motion, and sound 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.
- SPECIAL TOPICS: GENERAL TECHNOLOGY 1-2 credits 290 (May be repeated for a total of four credits.) Prerequisite: Permission. Selected topics of subject areas of interest in Chemical 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 Division.

# ELECTROMECHANICAL SERVICE TECHNOLOGY

### 2830:

- 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 CONTROLL 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
  - 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 documen-
- 240 INDUSTRIAL COMPUTER CONTROL 3 credits Prerequisite: 110. Introduction to digital electronics as it applies to industrial control. Survey of number systems, basic digital devices, microprocessors, microcomputer-based control components.
- 250 PROGRAMMABLE CONTROLLERS

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 wiring, and electrical safety. Emphasis on the requirements of the National Electrical Code.

#### 270 TROUBLESHOOTING AND REPAIR PRACTICES

Prerequisite: 210, 230. Surveys mechanical, hydraulic, pneumatic, electrical, and electronic troubleshooting and repair practices. Problem isolation, repair, and shop practices are considered. Safety practices are emphasized.

# 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 II 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 Prereguisites: 2820:111, 2840:111, 2860:110. Instrumentation employed in gualitative and guantitative analysis. Theory and practice in chromatographic, spectrophotometric and other instrumental methods. Laboratory
- 211 POLYMER TECHNOLOGY III 3 credits 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 Prerequisites: 102, 121 or permission. 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. POLYMER LAB PROJECT 281
- 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 chemical technology

# ELECTRONIC ENGINEERING TECHNOLOGY

### 2860:

- 110 BASIC ELECTRICITY AND ELECTRONICS 4 credits Prerequisite: 2030:130 or equivalent. 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. Nature of electricity, SI units, current and voltage, Ohm's Law, network analysis, Thevenin's Theorem, inductor, capacitor, transients, DC instruments, measurements, laboratory support of circuit concepts.
- 122 AC CIRCUITS 3 credits Prerequisite: 120; corequisites: 2030:154 and 2820:121. 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

3 credits

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.

136 INTRODUCTION TO DIGITAL CONCEPTS 1 credit Prerequisite: 120. Introduction to devices and techniques used in the design of combinational logic circuits. Topics include number systems, various arithmetic codes, Boolean algebra and Karnaugh mapping.

#### 225 ELECTRONIC DEVICES APPLICATIONS

4 credits Prerequisite: 123. Electronic amplifiers, power amplifiers, Classes A and B. Frequency response, Bode plots. Differential amplifiers. Operational amplifiers. Power supplies, filters and regulators. Feedback and oscillators.

### 227 MEASUREMENTS

Prerequisite: 123 or 271. Principles and use of electrical and electronic instruments including moving coil instruments, bridges, oscilloscopes and signal generators. Analysis of measurement errors.

#### 231 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

3 credits

2 credits

#### 237 DIGITAL CIRCUITS 4 credits Prerequisites: 123 and 136. Introduction to devices used in design of logic circuits. Topics include logic families, flip flops, counters, shift registers multiplexers, demultiplexers, arithmetic circuits, and memories 238 MICROPROCESSOR FUNDAMENTALS 4 credits

Prerequisite: 237. Principles and architecture of microprocessor and memory. Assembly language programming, microprocessor bus and interface applications are investigated. Techniques for hardware and software debugging.

#### 242 MACHINERY AND CONTROLS

Prerequisites: 122 and 123 or 271. Principles, characteristics and applications of DC and AC generators and motors. Basic control circuits for rotating machinery. Principles of industrial electronic devices. Introduction into programmable controllers.

#### 251 COMMUNICATIONS CIRCUITS

Prerequisite: 225. Resonance, coupling, filters, oscillators, mixers, power amplifiers, AM, FM, receivers

#### 255 ELECTRONIC DESIGN AND CONSTRUCTION

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 255. Design, construction and testing of an electronic circuit of choice. Progress reports, oral and written reports required. Discussion of electronic design and fabrication techniques.

#### 270 SURVEY OF ELECTRONICS I

Prerequisite: 2820:163. Fundamentals of DC and AC electrical circuits and rotating machinery. For non-electronic technology majors.

### 271 SURVEY OF ELECTRONICS II

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

#### 290 SPECIAL TOPICS: ELECTRONIC TECHNOLOGY

(May be repeated for a total of four credits.) Prerequisite: permission. Selected topics of subject areas of interest in Electronic Technology.

### 350 ADVANCED CIRCUIT THEORY

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

4 credits 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.

#### 354 ADVANCED CIRCUIT APPLICATIONS

Prerequisites: 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

3 credits 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.

#### SENIOR TOPICS IN ELECTRONIC TECHNOLOGY 430

Prerequisites: 354, 400. Study of advanced topics in electronic technology.

#### 451 INDUSTRIAL ELECTRICAL SYSTEMS

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.

SENIOR HONORS PROJECT: ELECTRONIC TECHNOLOGY 497 1-3 credits (May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program, per mission of department preceptor and major in electronic technology. Independent research lead-Ř ing to completion of Senior Honors Thesis or other original work.

# AUTOMATED MANUFACTURING ENGINEERING TECHNOLOGY

# 2870:

4 credits

3 credits

2 credits

3 credits

3 credits

1-2 credits

3 credits

3 credits

3 credits

3 credits

- 301 COMPUTER CONTROL OF AUTOMATED SYSTEMS 3 credits Prerequisite: 2880:100 and 201, or permission. The development of computer based systems and computer programs using robotics and machine controllers as the solutions for automated manufacturing problems.
- 311 COMPUTER-AIDED DRAFTING II 2 credits Prerequisite: 2940:210. A continuation of 2940:210. This course deals with computer-aided drafting applications. Electrical/electronic, mechanical, construction, and architectural examples
- 420 MATERIALS AND PROCESSES 2 credits Prerequisite: 2920:347. A study of part production from the aspect of the proper selection of materials and processes.
- SIMULATION OF MANUFACTURING SYSTEMS 2 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 2 credits Prerequisites: 410, 6500:301, 2920:448. A study of the automated production system. The various topics studied thus far CAD, CNC, and management are integrated. Several companies are used as case studies.
- 490 MANUFACTURING PROJECT 2 credits Prerequisite: Final semester. Advanced CADCAM topics are presented. A comprehensive proiect is undertaken.

# MANUFACTURING ENGINEERING TECHNOLOGY

### 2880:

- 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
- 110 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
- 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 com-puter-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 keep-ing. 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 load-ing, 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
- 221 SURVEY OF MACHINE TOOLS & CNC MACHINERY 3 credits Introductory study of the machining process. Basic concepts start with engine lathe and mill and proceed through beginning CNC programming.
- 222 COMPUTER NUMERICALLY CONTROLLED MANUFACTURING 3 credits Prerequisite: 110, 2030:255. CNC programming for CNC mills and lathes. Includes machine setup, tool selection as well as feed and speed calculations.
- 231 PLANT LAYOUT 3 credits Prerequisite: 100. Solution of activities for a production facility. Optimum arrangements of factors of production: manpower, materials, and equipment.
- 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) Preroquisite: permission. Selected topics or subject areas of interest in industrial technology

# INSTRUMENTATION **TECHNOLOGY** (Inactive)

### 2900:

121 FUNDAMENTALS OF INSTRUMENTATION 4 credits Prerequisites: 2820:151 and 2860:123 or 2860:270. Study of variables encountered in process instrumentation, indicating and recording devices and applications of physical principles affecting measurement and control

#### 232 PROCESS CONTROL

Prerequisite: 2860:231. Study of analysis and design of process control systems with emphasis on techniques and instrumentation used in process control. Digital control fundamentals introduced.

239 PULSE CIRCUIT TESTING 3 credits Prerequisite: 2860:237. General study and analysis of digital circuits and systems. Analog-to-digi tal and digital-to-analog conversion. Digital troubleshooting and analysis of digital interface

240 CALIBRATION AND STANDARDIZATION 1 credit Prerequisite: 2860:231. Laboratory experience in calibration and standardization of electrical, electronic and mechanical systems. Instrument theory, maintenance, troubleshooting, specifications, performance, and safe working practices included.

#### 241 INSTRUMENTATION PROJECT

- 2 credits Prerequisite: final semester or permission. Design construction and testing of an approved instrumentation project by an individual student, promoting independent study, initiative, assumption of responsibility, and application of skills attained in related courses
- 290 SPECIAL TOPICS: INSTRUMENTATION TECHNOLOGY 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in instrumentation technology.

# MECHANICAL ENGINEERING TECHNOLOGY

### 2920:

- 101 INTRODUCTION TO MECHANICAL DESIGN 2 credits Prerequisite: 2940:121; corequisite: 2030:154. Topics in engineering drawing: conventions, sections, dimensioning, allowances and tolerances, assembly drawings. Practice dimensional conversions, spreadsheets, test planning, data reduction. Discuss technical ethics and responsibilities
- 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 KINEMATICS 2 credits Prerequisite: 101 and 2980:125. Study of rigid-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; 2980:241. Corequisite: 2920:243 Design of machine elements: springs, shafts, fasteners, welded joints. Combined stress and fatigue analysis. Design projects. Experimental stress analysis.

#### TECHNOLOGY OF MACHINE TOOLS 247

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, steam power cycles, refrigeration.

#### FLUID POWER 251

2 credits Prerequisites: 2820:162, 164. Statics and dynamics of fluids. Viscosity, energy and momentum relationships. Fluid machinery and measurements.

- THERMO-FLUIDS LABORATORY 252 1 credit Prerequisite: 251; corequisite: 249. Laboratory experiments in applied thermal energy and fluid power.
- SPECIAL TOPICS: MECHANICAL TECHNOLOGY 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in mechanical 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.

#### 336 WELDING PROJECTS

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; 2980:125. 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 III 4 credits 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 3 credits

3 credits

### 348 CNC PROGRAMMING I

3 credits

Prerequisites: 2940:121, 2030:154; or permission. Introduction to numerical control (N/C) of operation of machine tools and other processing machines. Includes programming, types of N/C systems, economic evaluation.

360 FUNDAMENTALS OF AUTOMOTIVE SYSTEMS 3 credits Prerequisite: 249. System function and interaction of various subsystems. Diagnosis of malfunction of important systems and use of instruments such as vacuum gauge, compression and cylinder leakage test gauges, dwell meter and ignition scope. Laboratory demonstrations with

### hands-on experience for student dependent on available laboratory time. Field trips to observe operation of computer controlled testing and diagnosis.

#### 365 APPLIED THERMAL ENERGY II 2 credits 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 3 credits Prerequisites: 142, 2840:101 (or permission), and 2980:241. 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.

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 logic controllers.

#### 448 CNC PROGRAMMING II 3 credits

Prerequisite: 348. Introduction to computer-assisted interactive part programming system. Writing of milling and drilling programs.

#### MECHANICAL SIMULATION 3 credits Prerequisite: 2820:310. Structural, thermal and dynamic aspects of mechanical systems simulated using FORTRAN. Performances studied using both deterministic and trial-and-error methods. Responses in both time and frequency domains to various forcing functions. Prediction of toler-

ances and performance specifications by statistically studying systems produced by simulated production line. 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.

#### SENIOR HONORS PROJECT IN MECHANICAL TECHNOLOGY 497 1-3 credits

(May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program, per-mission 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:

1 credit

121 TECHNICAL DRAWING I 3 credits Corequisite: 210. 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 3 credits

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 3 credits 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 2 credits Prerequisite: 2030:152; corequisite: 2820:121. Introductory course in basic concepts in engineering technology computations. A study of technical terminology and applied mathematics

SURVEYING DRAFTING 3 credits 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.

3 credits

3 credits

3 credits

3 credits

3 credits

4 credits

2 credits

2 credits

3 credits

3 credits

2 credits

#### 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 Corequisite: 121. Drafting techniques using AutoCAD. Topics include drawing, editing, layers, text, dirmensioning, graphic patterns, blocks, attributes, model space, paper space, and plotting.

#### 3 credits 211 COMPUTER AIDED DRAWING II 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, customization, and AutoLISP

### 230 MECHANICAL SYSTEMS DRAFTING

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

Prerequisite: 121. Drawing fundamentals, terminology, and symbols for developing a set of basic construction plans and details. Included also are presentation drawings and interior and exterior planning.

#### 260 DRAFTING TECHNOLOGY PROJECT

Prerequisite: Completion of 20 credits of 2940. Provides opportunity to research and develop a specific drafting project within chosen field of interest.

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:

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.

#### 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.

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.

#### 224 LAND SURVEYING

Prerequisite: 122 or permission. Historical development of boundaries, rectangular system of public land surveys, systems to describe property, working and interpretation of deed descrip-tions, surveyor's rights, duties and responsibilities. THIS COURSE IS CURRENTLY INACTIVE.

### 225 ADVANCED SURVEYING

Prerequisite: 122. Introduction to theory of errors, precise leveling, baseline measurements, triangulation, trilateration and bearings from celestial observation. Photogrammetry. Field practice. THIS COURSE IS CURRENTLY INACTIVE.

#### 226 SUBDIVISION DESIGN

Prerequisite: 222; corequisite: 224. Site analysis, land use controls and plotting procedures. Laboratory includes preparation of various types of projects leading to a complete subdivision. THIS COURSE IS CURRENTLY INACTIVE.

#### 231 BUILDING CONSTRUCTION

Materials and types of construction used in heavy construction. Encompasses buildings constructed with heavy timber, steel, concrete or a combination of these materials.

#### CONSTRUCTION 232

Prerequisite: 222. Planning of construction operations. Construction equipment and selection for typical jobs. Emphasis on heavy construction.

#### 234 ELEMENTS OF STRUCTURES

Prerequisite: 241. Principles of stress and structural analysis of members in steel, timber and concrete.

#### 237 MATERIALS TESTING I

Laboratory testing of soils with emphasis on physical properties of soil. Laboratory and field procedures used for quality control. Testing of concrete mixes.

#### MATERIALS TESTING II

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 3 credits Prerequisite: 125, Stress, strain and stress-strain relationships. Tension, compression, torsion, beams. Shear and moment diagrams.
- 245 COST ANALYSIS AND ESTIMATING 3 credits Prerequisite: 231. Quantity surveys in construction. Elements of cost in construction, determination of unit costs, analysis of cost records.
- 2 credits 250 STRUCTURAL DRAFTING Prerequisite: 2940:121, 180. Duties of structural draftsman in preparation of detailed working drawings for steel and concrete. Emphasis on portraval, dimensions and notes on a working drawing.
- 290 SPECIAL TOPICS: SURVEYING AND 1-3 credits CONSTRUCTION TECHNOLOGY Prerequisite: permission. Selected topics or subject areas of interest in surveying and construc-
- tion technology. 310 APPLIED PHOTOGRAMMETRY FOR SURVEYORS 3 credits
- Prerequisite: 225. Concepts of phtogrammetry, measurements on aerial photographs, and analysis of natural and man-made feaures on phtographs related to land use and form.
- 320 SURVEY COMPUTATIONS AND ADJUSTMENTS 3 credits Prerequisite: 225. Corequisite: 2940:210. Concepts related to measurement error, probability and reliability. Computation adjustment of horizontal and vertical networks. Introduction to matrix algebra and least-squares adjustment.
- 410 BOUNDARY SURVEYING 3 credits Prerequisite: 122 and 2940:210. Analysis of evidence and procedures for boundary location; establishing and/or locating points for boundary, mortgage location, topographic, site plans, and as-built surveys
- 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.
- 425 LAND NAVIGATION 3 credits Intepretation and use of topographic maps. Study of basic map elements with emphasis on identification of features and coordinate systems. Map use for land navigation.
- 3 credits 430 SURVEYING PROJECT Prerequisite: senior standing and permission. Provides opportunity to research and develop a 1 specific surveying project within chosen area of surveying. Oral, written and graphical presentation of completed project(s).
- 489 SPECIAL TOPICS IN SURVEYING 1-3 credits 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 1-3 credits 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.)

# **Buchtel College of** Arts and Sciences

# COOPERATIVE EDUCATION 3000:

### 301 COOPERATIVE EDUCATION

0 credits (May be repeated) For cooperative education students only. Work experience in business, industry, or governmental agency. Comprehensive performance evaluation and written report required

### INTERDISCIPLINARY PROGRAM

# WOMEN'S STUDIES

# 3001:

100 SOCIAL AND CULTURAL DIVERSITY IN THE U.S. 3 credits Explores the range and impact of pluralistic experience in the U.S. emerging from differences in race, class, ethnicity, gender, age, ability, and sexual orientation.

110 MULTICULTURAL SENSITIVITY TRAINING 1 credit Introductory course designed to teach awareness and skills necessary for coping with and appreciating diversity of race, class, gender, ethnicity, and sexual orientation.

#### 300 INTRODUCTION TO WOMEN'S STUDIES

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

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

(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.

#### 490/590 WORKSHOP

1-3 credits (May not be repeated). Various topics focused on women. Themes and course materials vary each semester. Lecture and discussion

#### 493 INDIVIDUAL STUDIES ON WOMEN 1-3 credits Prerequisite: 300, and approval of Director of Women's Studies. Directed study of selected top-

ics related to women. Projects are chosen by student in consultation with instructor.

### INTERDISCIPLINARY PROGRAM

# **PAN-AFRICAN STUDIES**

### 3002:

- 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: 3400:220 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.

# INTERDISCIPLINARY PROGRAM PEACE STUDIES

# 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

### INTERDISCIPLINARY PROGRAM

CANADIAN STUDIES

# 3005:

300 CANADIAN STUDIES: AN INTERDISCIPLINARY APPROACH 3 credits This course provides historical, political, geographical, sociological, and literary overview of Canada. Team-taught

### INTERDISCIPLINARY PROGRAM

# **INSTITUTE FOR LIFE-SPAN** DEVELOPMENT AND GERONTOLOGY

### 3006:

3 credits

3 credits

1-3 credits

3 credits

450 INTERDISCIPLINARY SEMINAR IN LIFE-SPAN DEVELOPMENT AND GERONTOLOGY 2 credits

2 credits

#### (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.

#### 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

- 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.
- 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 7 agency work.

### INTERDISCIPLINARY PROGRAM

# ENVIRONMENTAL STUDIES

## 3010:

- 201 INTRODUCTION TO ENVIRONMENTAL STUDIES 2 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.

# BIOLOGY

### 3100:

#### 100 NATURE STUDY: PLANTS

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 NATURE STUDY: ANIMALS

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 classs instruction illustrate concepts of living organisms with emphasis on mankind's position in, and influence on, the environment.

INTRODUCTION TO ECOLOGY LABORATORY 104 1 credit Corequisite: 105. Short field trips and laboratory studies illustrating natural and modified characteristics of selected local ecosystems.

#### 105 INTRODUCTION TO ECOLOGY

2 credits 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

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 II 4 credits 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.) aboratory

#### 130 PRINCIPLES OF MICROBIOLOGY

3 credits Basic principles and terminology of microbiology; cultivation and control of microorganisms; relationships of microorganisms to humans and their environment; medical microbiology. Laboratory.

#### 190/191 HEALTH-CARE DELIVERY SYSTEMS

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. Field trips involved; minor transportation costs.

#### 195 SPECIAL TOPICS: BIOLOGY FOR NON-MAJOR

1 to 3 credits Special courses for the non-major offered occasionally on a biology-related topic. Not available for credit toward the Biology or Natural Science Divisional major.

#### 208,9 HUMAN ANATOMY AND PHYSIOLOGY

Sequential. Prerequisite: one year of college chemistry. Study of structure and function of the human body, Laboratory,

#### 211 GENERAL GENETICS

Prerequisite: 112. Principles of heredity, principles of genetics. 1 credit

- 212 GENETICS LABORATORY Prerequisite or corequisite: 211. Laboratory experiments in genetics with emphasis on scientific
- method; techniques in molecular biology.
- GENERAL ECOLOGY 217 3 credits Prerequisite: 112. Study of interrelationships between organisms and environment.

#### ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 264 3 credits

Prerequisite: 265. Study of anatomy and physiology of organs directly and indirectly responsible for sound perception and production of speech. Laboratory. Field trips involved; minor transportation costs.

#### INTRODUCTORY HUMAN PHYSIOLOGY 265

Study of physiological processes in human body, particularly at organ-systems level. Not open to preprofessional majors. Laboratory.

### 290/291 HEALTH-CARE DELIVERY SYSTEMS

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 FOR NON-MAJOR 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 BIOLOGY 3 credits Prerequisites: 112 and 3150:202 (organic and biochemistry). Study of structure and function of cells using microbial and animal cells for demonstration of common tenets.

### EVOLUTIONARY BIOLOGY DISCUSSION

1 credit 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

3 credits

3 credits

4 credits

3 credits

4 credits

1 credit each

4 credits each

3 credits

4 credits

1 credit each

- Prerequisites: 112, 211 and prerequisite or corequisite 3150:263. Survey of protists 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.

#### 381 HUMAN GENETICS

Prerequisite: 112. Principles of genetics in the human, immunogenetics, mutation, genetics of population, selection and eugenics. Not open to biology majors.

#### 392 BIOLOGY OF AGING

occurring in organ systems of humans during aging process; cellular basis for these changes; biological theories of aging. 400/500 FOOD PLANTS 2 credits

Prerequisite: 112 or 265 or equivalent. Introduction to anatomical and physiological changes

#### Prerequisite: 112 or permission of instructor. A survey of the plants used for human food, including their history, structure, uses

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; minor transportation costs.

#### 422/522 CONSERVATION OF BIOLOGICAL RESOURCES

4 credits Prerequisite: 217 or permission. Basic principles for management of plant and animal resources and natural areas. Political, economic and social aspects of resource management. Laboratory. Field trips involved; minor transportation costs.

### 424/524 FRESHWATER ECOLOGY

3 credits Prerequisite: 217. Field, laboratory study of lake ecosystems. Species composition of selected biotic communities, community energetics, nutrient cycling. Limnological survey of a local lake. aboratory. Field trips involved; minor transportation costs.

#### 425/525 FRESHWATER ECOLOGY FIELD AND LABORATORY STUDIES

Prerequisite: 217 or permission of instructor. Field and laboratory studies of local lakes, ponds, and reservoirs. Collection, indentification, and ecology of aquatic plants and animals, especially phytoplankton, zooplankton and benthic organisms.

#### 426/526 APPLIED AQUATIC ECOLOGY

Prerequisite: permission. Biological methods for assessing quality of natural waterways. Emphasis given to use of benthic invertebrates as indices of water quality. Laboratory. Field trips involved: minor transportation costs.

#### 428/528 BIOLOGY OF BEHAVIOR

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

Prerequisites or corequisites: 428/528 and permission of instructor. Individualized, directed study to provide the student with firsthand experience in observing, describing and interpreting animal behavior.

#### 432/532 ADVANCED GENERAL BACTERIOLOGY

Prerequisite: 331. Study of the groups of bacteria involved in the production of food or chemicals, those found in soil and water and those involved in microbiol biogenochemical cycles. Laboratory

#### 433/533 PATHOGENIC BACTERIOLOGY

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

Prerequisite: 331. Physical, chemical and biological properties of viruses including mechanisms of infection, genetics and tumor formation; methods of cultivation and identification. Laboratory.

#### 437/537 IMMUNOLOGY

4 credits Prerequisite: 211 and 331; recommended: 433. Nature of antigens, antibody response and antigen-antibody reactions. Site and mechanism of antibody formations, hypersensitivity, immunologic tolerance and immune diseases considered. Laboratory.

#### 440/540 MYCOLOGY

Prerequisite: 112. Structure, life history, classification of representative fungi with emphasis on the importance of fungi to humans. Laboratory.

#### 441/541 PLANT DEVELOPMENT

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.

### 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.

#### 445/545 PLANT MORPHOLOGY

Prerequisite: 112. Structure, reproduction, life cycles, ecology, evolution, economic significance of land plants-bryophytes, club-mosses, whisk ferns, horsetails, ferns, seed plants. Laboratory. Field trips involved; minor transportation costs.

4 credits

4 credits

3 credits

2 credits

3 credits

3 credits

4 credits

2 credits

2 credits

4 credits

4 credits

4 credits

4 credits

4 credits

#### 447/547 PLANT PHYSIOLOGY

### 3 credits

2 credits

4 credits

4 credits

4 credits

4 credits

4 credits

3 credits

4 credits

4 credits

3 credits

3 credits

3 credits

3 credits

1-3 credits

1-3 credits

1-3 credits

1-2 credits each

Prerequisites: 112 and one year of organic chemistry. Water, soil and mineral requirements of plants, and their metabolism, growth and response to internal and external stimuli. Laboratory.

#### 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

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

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, 3150:201. Principles of parasitism; host parasite interactions; important human and veterinary parasitic diseases; and control measures. Laboratories parallel lectures.

#### 456/556 ORNITHOLOGY

Prerequisite: 112. Introduction to biology of birds: classification, anatomy, physiology, behavior, ecology, evolution, natural history and field identification. Laboratory and field trips.

#### 458/558 VERTEBRATE ZOOLOGY

4 credits 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

4 credits each 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 GENERAL AND COMPARATIVE PHYSIOLOGY

Prerequisites: 112 and one year of organic chemistry. Study of cellular, osmoregulatory, respiratory, cardiovascular, endocrine and neural mechanisms involved in understanding physiology of variety of invertebrate and vertebrate animals. 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.

#### 467/567 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.)

#### 480/580 MOLECULAR BIOLOGY

3 credits 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

Prerequisite: 311; recommended: college-level physiology. Interactions of drugs and living systems with emphasis on molecular and cellular mechanisms of action, drug metabolism and excretion, and selected aspects of environmental toxicology. Clinical aspects and specific drug therapies not considered in detail.

#### 494/594 WORKSHOP IN BIOLOGY

(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 used for elective credit only.

#### 495 SPECIAL TOPICS: BIOLOGY

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

Prerequisite: permission. Honors-level work, usually consisting of laboratory investigations. A ł maximum of 4 credits may apply toward the major degree requirements.

#### SENIOR HONORS PROGRAM IN BIOLOGY 499

(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 7 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 1 credit PRACTICUM 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.
- 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 CLINICAL 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 components; 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. CLINICAL IMMUNOLOGY II PRACTICUM 1 credit 451
- 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.
- 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:

#### 401 INTRODUCTION TO CYTOLOGY

A brief course in which by means of lecture and demonstration the student becomes familiar with the cytotechnologist's role and with cytology laboratory. Areas covered include historical background of clinical cytology, microscopy and basic histology.

1 credit

- 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 measurements, 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 premalig nant 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 3 credits

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.

413 RESPIRATORY CYTOPATHOLOGY 3 credits 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 4 credits 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 3 credits 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 2 credits 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 3 credits 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:

7

100 CHEMISTRY AND SOCIETY 3 credits 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. 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. INTRODUCTION TO GENERAL 111 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) rerequisite/Corequisite: 3150:112. Sequential. Laboratory course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry. 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. 153 PRINCIPLES OF CHEMISTRY II 3 credits 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. 4 credits each 201,2 ORGANIC CHEMISTRY AND BIOCHEMISTRY I, II Sequential, Prerequisite: 153, Designed especially for students in medical technology. Principles of organic chemistry with emphasis on biological systems. Laboratory. 203 NUTRITIONAL BIOCHEMISTRY 3 credits Prerequisite: 112. Catabolic processes for energy production and nutritional requirements in liver, heart and skeletal muscle and adipose tissue. Biochemistry of diabetes, heart disease, obesity and atherosclerosis. May not be used to meet undergraduate major requirements

#### 263,4 ORGANIC CHEMISTRY LECTURE I, II

chemistry

3 credits each Sequential. Prerequisite: 154 or permission. Structure and reactions of organic compounds, mechanism of reactions.

265,6 ORGANIC CHEMISTRY LABORATORY I, # 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, 3450:235, 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.
- ADVANCED CHEMISTRY LABORATORY | 2 credits 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 | 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
- 423 ANALYTICAL CHEMISTRY I 3 credits 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, 304 or 314 or permission. Introduction to study of mechanisms of organic reactions.
- 472/572 ADVANCED INORGANIC CHEMISTRY 3 credits Prerequisite: 314. Concepts of atomic structure integrated in systematic classification of ele ments. Periodic 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.
- 481 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.
- 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
- RESEARCH PROBLEMS 1-2 credits 499 (May be repeated for a total of eight credits) Prerequisite: permission. Assignment of special problems to student, designed as an introduction to research problems.

# CLASSICS

### 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. 3 credits
- MYTHOLOGY OF ANCIENT GREECE 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.
- 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.
- THE LITERATURE OF GREECE 3 credits 361 Prerequisite: 3400:210. Major writers of ancient Greece and their influence on later European literature. No foreign language necessary. Required of majors.

3 credits 362 THE LITERATURE OF ROME Major writers of ancient Rome and their influence on later European literature. No foreign language necessary. Required of majors. 401,2/501,2 EGYPTOLOGY | AND || 3 credits each

The history and antiquities of ancient Equat.

#### 404.5/504.5 ASSYRIOLOGY

(May be repeated for credit with another cuneiform language) Prerequisite: permission of instructor. The Akkadian language

3 credits each

4 credits each

3 credits each

3 credits

407.8/507.8 ANCIENT NEAR EASTERN ARCHAEOLOGY 3 credits each (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.

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

497,8/597,8 READING AND RESEARCH IN THE ANCIENT NEAR EAST 1-3 credits Prerequisite: permission of instructor. Advanced work in various aspects of Ancient Near Eastern Studies (Archaeology, Assyriology, Egyptology, etc.).

HONORS PROJECT IN CLASSICS 499 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

S supervision of a member of the Department of Classics.

# GREEK

### 3210:

121,2 BEGINNING GREEK | AND II

Sequential. Standard Attic Greek of classical times.

223.4 INTERMEDIATE GREEK 3 credits each rerequisites: 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

(May be repeated with a change of subject) Tragedy, comedy, philosophy, history, lyric poetry, prose composition or epigraphy

497.8/597.8 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 LAND 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.

# **ECONOMICS**

### 3250:

#### INTRODUCTION TO ECONOMICS 100

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.

### 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

#### 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.

- 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
- 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 3 credits Prerequisite: 201. Institutions of money, banking and credit, monetary expansion and contrac-
- tion, 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 nat-
- ural resources and economics of environment. Problems of water and air pollution, natural environments, natural resource scarcity, conservation, economic growth. 389 ECONOMICS OF ENERGY 3 credits Prerequisites: 200, 201 or permission of the instructor. Frame of economic theory is applied to analyze the energy sector. Theoretical issues relating energy with inflation, economic growth
- and public policy will also be examined. 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-benefit analysis, program development and evaluation.

#### 406/506 STATE AND LOCAL PUBLIC FINANCE 3 credits

Prerequisite: 410; recommended: 405. Examines economic rationale and problems for provision of goods and services by different governmental units. Considers alternative revenue sources and special topics.

#### 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 3 credits

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 3 credits

Prerequisite: 420 or permission of instructor. Use of calculus and linear algebra to dynamic economic analysis; solution techniques; some significant dynamic models from literature.

- 426 ECONOMETRIC METHODS AND APPLICATIONS Prerequisites: 3470:460 or 3470:461 or the equivalent or permission of the instructor. The study and use of regression and analysis of variance in analyzing economic data. Students will learn to specify and test economic hypotheses and make economic projections. Use of the computer will be extensive
- 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 Prerequisite: 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, wage scales, technological change, production standards, etc.
- 435/535 THE DEVELOPMENT OF AMERICAN CORPORATE STRUCTURE 3 credits Traces evolution of American corporate structure from late 19th Century to present. Explains and analyzes changing dimensions of corporate structure and response of government. Case studies analyzed.
- 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 UNDERDEVELOPED COUNTRIES	3 credits
Prerequisites: 200 and 201, or 244. Basic problems in economic development development. Government planning for development. Trade and development o oped countries. Credit not available for students with credit for 3250:664.	
461 PRINCIPLES OF INTERNATIONAL ECONOMICS Prerequisites: 200 and 201, or 244. International trade and foreign exchange, polici controlled trade, international monetary problems.	<i>3 credits</i> as of free and
475/575 DEVELOPMENT OF ECONOMIC THOUGHT Prerequisites: 200 and 201, or 244. Evolution of theory and method, relation of id mists contemporary to conditions.	3 credits eas of econo-
	2 or odite

Prerequisites: 380, 400. Control over currency and credit, policies of control by central banks and governments, United States Treasury and Federal Reserve System.

- 487 URBAN ECONOMICS: THEORY AND POLICY 3 credits Prerequisite: 410. Theoretical and empirical analyses of allocation, growth and structure in urban economy. Urban problems. Special attention given to resource allocation in urban public sector.
- 490 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 only.

#### 497 HONORS PROJECT

(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 super-2 vised by faculty member of the department.

# ENGLISH

### 3300:

### 111 ENGLISH COMPOSITION I

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.

#### TOPICS IN WORLD LITERATURE 251

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 English.

#### 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

Prerequisites: 111 and 112 or their equivalents, and 3400:210. A close reading of types of popular fiction and how it reflects cultural attributes.

#### 275 SPECIALIZED WRITING

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 3 credits 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.

#### 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 stories 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 Requirement

3 credits

#### 282 DRAMA APPRECIATION

1-3 credits

4 credits

3 credits 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

3 credits 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

3 credits 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 3 credits 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 3 credits

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 intellectual 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 3 credits 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 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. 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 3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor These two bodies of literature read with emphasis on form of gospel and epistle, and concept of apocalvose. 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 3 credits 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. Broad range of topics on language and introduction to its scientific study. Topics include language origins and history, dialects, sound systems, syntax, semantics, animal language, writing systems and language universals.

#### 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.

3 credits

3 credits

### 378 ADVANCED FICTION WRITING

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 stories; 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

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.

#### 386 WOMEN IN MODERN NOVELS

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Students will read various modern novels to increase their awareness of how these texts reflect, reinforce, but more often challenge traditional attitudes towards women, their places and circumstances

#### 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.

3 credits

3 credits

1-3 credits

3 credits

### 390 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

3 credits 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...

#### THE GOTHIC IMAGINATION 399

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. A loosely chronological study of major British, American, and European authors in the Gothic tradition, from the 18th Century to the present. Attention will be paid to the 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

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

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 Enalish

### 407/507 MIDDLE ENGLISH LITERATURE

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor Study of genres, topics, styles and writers of the Middle English literary works from 12th to 15th Centuries. Readings in Middle English.

### 412/512 SPENSER

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Close reading of major narrative and lyric poems and selections from the minor works, all studied in the context of Elizabethan aesthetic theory, learning and politics.

#### 416/516 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 particuar 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 or their equivalents, or permission of the instructor. Development of English novel before 1830. Focus on works of Defoe, Richardson, Fielding, Smollett, 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.

#### 430/530 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.

### 431/531 VICTORIAN FICTION

Prerequisite: 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.

### 434/534 CHARLES DICKENS

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Growth of Dickens as a novelist, with attention to the social and political backgrounds of the novels and changes in their structure and treatment of character.

435/535 20TH CENTURY BRITISH POETRY	3 credits
Prerequisite: Completion of 111 and 112 or their equivalents, or permission of t	he instructor.
Concentrated study of major poems of Yeats, Eliot and Auden, with attention a	lso to Hardy,
Housman, Spender, C. Day Lewis, Dylan Thomas and others,	

#### 436/536 BRITISH FICTION: 1900-1925 3 credits 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.

#### 437/537 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 development of British short story from 1925 to present.

#### 439/539 MODERN BRITISH AND IRISH DRAMA

3 credits 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.

#### 443/543 MELVILLE 3 credits

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. A study of Herman Melville's life and works. Primary emphasis will be on Melville's major fiction (e.g., Moby Dick, The Confidence Man, Billy Budd), but some attention will also be given to his poetry and travel sketches.

#### 446/546 AMERICAN AUTOBIOGRAPHY

3 credits Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. An inquiry into the nature of autobiographical writing, with particular attention to the ontology of the "autobiographical self." Includes such authors as Henry Adams, Sherwood Anderson, Mark Twain, Gertrude Stein, Langston Hughes, William Carlos Williams, Loren Eiseley and Maya Angelou.

#### 448/548 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, Hawthorne and Melville

#### 449/549 AMERICAN FICTION: REALISM AND NATURALISM 3 credits 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

#### 450/550 MODERN AMERICAN FICTION

3 credits 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.

#### 451/551 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.

#### 452/552 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 or their equivalents, or permission of the instructor. Study of modern poets' uses and revisions of tradition, treatment of relationships between women and men and between women, conceptions of art and of the artist-as-woman, and confrontation of the debate between "public" and "private" poetry.

#### 454/554 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.

#### 455/555 THE AMERICAN SHORT STORY 3 credits

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.

#### 458/558 FAULKNER 3 credits

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

3 credits 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 Zola, Tolstoy, Dostoyevsky, Mann, Proust, Kafka and Solzhenitsyn.

#### 469/569 EROS AND LOVE IN EARLY WESTERN LITERATURE 3 credits

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 tor. Development of English language, from its beginnings: sources of its vocabulary, the instrucits 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

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 1-3 credits (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

483/583 FANTASY AND SCIENCE FICTION

Prerequisite: Completion of 111 and 112 or their equivalents, or permission of the instructor. Selected British and American fantasy and science fiction from the 1880s to the present

#### 484/584 FANTASY

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

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 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:

Z

- 100 INTRODUCTION TO GEOGRAPHY Analysis of world patterns of population characteristics, economic activities, settlement features, landforms, climate as interrelated factors.
- 300 GEOGRAPHY OF TRAVEL AND TOURISM 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

Introduction to use and interpretation of maps. Study of basic map types, elements, symbolism, and historical and cultural context of maps

#### 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

CLIMATOLOGY

Prerequisite: 310 or permission. Analysis and classification of climates, with emphasis on regional distribution. Basic techniques in handling climate data.

#### 320 ECONOMIC GEOGRAPHY

Geographical basis for production, exchange, consumption of goods. Effect of economic patterns on culture and politics.

#### 326 ENERGY AND ECOLOGY

3 credits Prerequisite: 320 or permission. Traditional fossil fuels and recently developed alternative sources of energy studied along with electricity production. Production and consumption pat-terns, effects of conservation and environmental damage and energy policy considered.

#### BURAL AND URBAN SETTLEMENT 330

Origin, function and rationale of settlements. Includes analysis of rural settlement landscape as well as fundamentals of urban geography.

### RECREATION RESOURCE PLANNING

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.

#### CARTOGRAPHY 340

Prerequisite: 305 or 2940:210 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.
- 351 OHIO: ENVIRONMENT AND SOCIETY 3 credits Regional and topical analysis of cultural, economic and environmental patterns; also in comparison 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

- 358 RUSSIA AND ASSOCIATED STATES 3 credits Prerequisite: 100 or permission. Regional and topical analysis of cultural, economic and environmental patterns, with comparison to other major world regions.
- ASIA 3 credits Prerequisite: 100 or permission, Environmental, cultural and economic geography of East, Southeast, South Asia and Middle East with emphasis on the contemporary.
- 363 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.
- 375 GEOGRAPHY OF CULTURAL DIVERSITY 2 credits Evaluation of cultural elements unique to various geographical regions to explain why different people utilize resources differently, and how cultural diversity affects regional conflicts.
- PLANNING SEMINAR 385 1 credit Prerequisite: permission of instructor. Development of planning studies including completion of paper covering a planning topic in depth. Projects are presented by student and critically analyzed.
- 397 SPECIAL PROBLEMS 1-3 credits (May be repeated for a total of five credits) Prerequisite: permission of instructor. Directed read-
- ing and research in special field of interest. 403/503 COMPUTER APPLICATIONS IN GEOGRAPHY AND PLANNING 3 credits Application of advanced information technologies to geography and planning, including operating systems, electronic spreadsheets, data base management systems, and the Internet. Laboratory
- 405/505 GEOGRAPHIC INFORMATION SYSTEMS 3 credits Prerequisites: 340/540 and 403/503 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
- 422/522 TRANSPORTATION SYSTEMS PLANNING 3 credits 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 3 credits Prerequisite: 320 or permission. Relationship between land, resources, population, transportation and industrial and commercial location processes.

433/533 INTRODUCTION TO PLANNING 3 credits Introduction to the history, theories and forms of urban planning

436/536 URBAN LAND USE ANALYSIS 3 credits 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.

438/538 WORLD METROPOLITAN AREAS 3 credits Prerequisite: 330 or permission. Comparative analysis of metropolitan regions. Urbanism, land use, housing, transportation, population and role of cities in economic development in different cultures.

#### 442/542 THEMATIC CARTOGRAPHY 3 credits

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 INTRODUCTION TO REMOTE SENSING 3 credits Prerequisite: 305 or permission. Application of analytic and presentation techniques from cartography and geographic information systems to practical problems in geography and planning. Laboratory

#### 448/548 ADVANCED CARTOGRAPHY 3 credits

Prerequisite: 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.

3 credits

3 credits

#### 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.

3 credits

3 credits

3 credits

3 credits

3 credits

2-3 credits

1-3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

1 credit

1 credit

#### 471/571 MEDICAL GEOGRAPHY AND HEALTH PLANNING

Spatial analysis of diseases; their socioeconomic correlates; diffusion pattern of infectious diseases 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

Prerequisite: 481/581 or permission. Analysis of mapped statistical surfaces. Principles for use of map as model for statistical evidence, prediction, hypothesis testing.

#### 489/589 SPECIAL TOPICS IN GEOGRAPHY

1-3 credits (May be repeated) Selected topics of interest in geography

#### 490/590 WORKSHOP IN GEOGRAPHY

(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 andscapes. Stresses relationships between soil and the hydrological cycle, urbanization, suburbanization and agriculture. Field trips required.

#### 496/596 FIELD RESEARCH METHODS

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 geograf phy. Selection of research topic and writing of research paper in proper scholarly form under
- direction of faculty member

# GEOLOGY

### 3370:

#### 100 EARTH SCIENCE

3 credits 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

Comprehensive survey of minerals, rocks, structures and geologic processes of solid earth. Laboratory

### 102 INTRODUCTORY HISTORICAL GEOLOGY

Prerequisite: 101. Geologic history of earth, succession of major groups of plants and animals interpreted from rocks, fossils, Laboratory,

#### 103 NATURAL SCIENCE: GEOLOGY

Study of basic principles and investigative techniques in various fields of geology with emphasis on relationship of geologic processes to society.

#### 121-138 CONCEPTS IN GEOLOGY

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

Catastrophic changes in plants and animals have occurred throughout earth history. The causes of these extinctions have sparked debate which has enlivened the scientific world.

#### 123 INTERPRETING EARTH'S GEOLOGIC HISTORY

An introduction to geological techniques and reasoning used to develop theories and interpretations of earth history. Exercises allowing students to develop interpretations.

#### 124 PLATE TECTONICS: THE NEW GEOLOGY

Plate tectonic theory is the solution to the origin of: the oceans and mountains, earthquakes and volcanoes, mineral deposits, and many other geological riddles.

#### 125 EARTHQUAKES: WHY, WHERE, WHEN?

Causes and effects of earthquakes, geological settings for earthquakes, seismic measurements, mechanical response of rock to stress, earthquake prediction and precautionary measures.

#### 126 NATURAL DISASTERS AND GEOLOGY

1 credit A study of the geologic setting and processes related to natural hazards such as landslides. floods, earthquakes, and volcanic eruptions.

#### 127 THE ICE AGE AND OHIO

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 significance in terms of human activity, from early settlement to future economy.

#### 129 MEDICAL GEOLOGY

Abundance and distribution of trace elements in surface and groundwater, soils and rocks. The effects of trace elements to health through dose-response relationships.

#### 130 GEOLOGIC RECORD OF CLIMATE CHANGE

Examines evidence of natural climate changes in geologic past and evaluates the role of modern society in influencing future climate.

ation affects the development and exploration of geological resources.	
132 GEMSTONES AND PRECIOUS METALS Introduction to minerals which form gemstones and precious metals. Topics include physical properties, geologic occurrences and geographic locations of ma	
133 CAVES AND REEFS Topics include: karst processes and the origin of caverns; carbonate depositiona and the origin of limestones; environmental problems associated with karst lands	
134 HAZARDOUS AND NUCLEAR WASTE DISPOSAL Disposition of hazardous waste in secured landfill site. Geologic factors which	<i>1 credit</i> determine the

Discussion of how geology has influenced the growth of societies and how governmental regu-

#### selection of low-level and high-level radioactive waste sites. 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 1 credit

131 GEOLOGY AND SOCIETY

3 credits

3 credits

3 credits

1-3 credits

3 credits

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

#### 138 PLANETARY GEOLOGY Solar system characteristics and formation; structure, composition and geology of terrestrial and

Jovian planets and their satellites; comets, asteroids, meteorites and their relationship to Earth. 139 CURRENT TOPICS

#### 1 credit (May be repeated for up to 2 credits.) Special topics offered once or only occasionally in areas where no formal course exists.

- 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.
- EXERCISES IN ENVIRONMENTAL GEOLOGY I 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.

230 CRYSTALLOGRAPHY AND NON-SILICATE MINERALOGY 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

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.

271 OCEANOGRAPHY 3 credits Prerequisite: 101. Introduction to physical processes, geologic history and development of marine areas

301 ENGINEERING GEOLOGY 3 credits Prerequisites: Four credits in introductory physical geology and permission. Presents quantitative analyses of geologic features and processes and is supported by the study of case histories. Lecture, lab, and field study

#### 310 GEOMORPHOLOGY 3 credits Prerequisite: 101. Study of landforms as a function of structure, process, and time. Laboratory.

SEDIMENTATION AND STRATIGRAPHY 4 credits Prerequisites: 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 4 credits Prerequisite: 102 or permission. Introductory course emphasizing morphology and evolution of major invertebrate groups with consideration of practical applications of paleontology. Laboratory
- 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 3 credits

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 3 credits Prerequisite: permission. Causes and effects of Pleistocene expansion of polar ice masses with emphasis on glacial deposits and world climatic changes. Laboratory.

4 credits

4 credits

3 credits

1 credit

1 credit each

#### 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 ADVANCED STRATIGRAPHY

Prerequisites or corequisites: 360, 324 or permission. Emphasis on correlation, depositional systems, sedimentation and tectonics, seismic stratigraphy, and terrain analysis. Laboratory in the field.

#### 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

3 credits 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

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

Prerequisites: 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.

#### 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.

#### 450/550 ADVANCED STRUCTURAL GEOLOGY

Prerequisite: 350 or permission. Fundamental and advanced concepts of structural geology with emphasis on current and developing concepts. Laboratory.

#### 462/562 ADVANCED PALEONTOLOGY

3 credits Prerequisites: 360. Provides advanced training in paleontological subjects. Topics will include paleoenvironmental analysis, biostratigraphic correlation, fossil preservation, diversification and extinction patterns and geochemical signals of fossils.

#### 463/563 MICROPALEONTOLOGY

Prerequisite: 360 or permission. Introduction to techniques of micropaleontology evolution and paleoecology of selected microfossil groups. Laboratory.

#### 470/570 GEOCHEMISTRY

3 credits Prerequisite: 101, 230, and 231, 3150:151, 152 and 153 or permission. Application of chemical principles to the study of geologic processes. Laboratory.

#### 472/572 STABLE ISOTOPE GEOCHEMISTRY

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 emphasis 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, gathering, managing, and evaluating geoscience information. Emphasis on finding data sources (including electronic), creating valid data sets, visualizing data.

#### 490/590 WORKSHOP

- 1

(May be repeated) Group studies of special topics in geology. May not be used to meet under-graduate or graduate major requirements in geology. May be used for elective credit only.

#### 493/593 GEOLOGY FIELD CAMP I

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

Prerequisites: 231, 350,493/593, or permission. Advanced techniques and methods of field geology necessary for detailed geologic maps and interpretations.

- 495 FIELD STUDIES IN GEOLOGICAL STRUCTURES AND PROCESSES 1-2 credits (May be repeated for a total of four credits) Prerequisite: permission. Field trip course emphasiz-
- ing phases of geology not readily studied in Ohio. Includes pretrip preparation and post-trip .1 examination. Student will bear trip expenses.

#### 497 SENIOR HONORS PROJECT IN GEOLOGY

(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. Independent research leading to completion of senior honors thesis or other original work under guidance of student's honors project adviser.

#### 498 SPECIAL TOPICS

3 credits

2 credits

1-3 credits

3 credits

3 credits

1-3 credits Prerequisite: permission of instructor. Special lecture courses offered once or only occasionally in areas where no formal course exists.

#### RESEARCH PROBLEMS

(May be repeated for a total of four credits) Prerequisite: permission. Directed reading and ¥. research in an aspect of geology chosen by student in consultation with an instructor.

# 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 I: 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 II: **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. 251 UNITED STATES HISTORY SINCE 1877 4 credits Survey of United States history from the end of Federal Reconstruction to the present. AFRICAN-AMERICAN PEOPLE OF THE U.S. - 1492 TO 1877 260 3 credits Survey of social, economic, political and cultural history of African-American people from 1492 to 1877 AFRICAN-AMERICAN PEOPLE OF THE U.S. - 1877 TO PRESENT 3 credits 261 Survey of social, economic, political and cultural history of African-American people from 1877 to present. 300 IMPERIAL CHINA 3 credits Selective study of institutional, intellectual, political and artistic developments in Chinese civilization from antiquity to 18th Century. Emphasis on general features of traditional Chinese culture. 301 REVOLUTIONARY CHINA 3 credits Survey of China since 18th Century with focus on process of modernization. Background of contemporary scene stressed. 3 credits 303 JAPAN Survey of history of Japan from 1600 to present. Emphasis on modernization and the rise of Japanese empire, 1894-1945. ANCIENT NEAR EAST 3 credits Mesopotamia, Egypt; Israel, and neighbors to Persian Empire. GREECE 3 credits 308 Minoans and Mycenaeans; classical Greece to triumph of Macedon. HISTORICAL METHODS 3 credits 310 Introduction to historical research and writing. Required for history major 313 EASTERN ROMAN EMPIRE 3 credits 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 the source material, ancient historiography, text criticism and the like.
- 318 ROMAN EMPIRE 3 credits An intensive survey of the Roman Empire. Attention will be given to the nature of the source material, ancient historiography, text criticism and the like.
- 319 MEDIEVAL EUROPE, 500-1200 3 credits Migration of peoples, Carolingian revival, renewed invasions; social, economic and intellectual stirrings lead to "birth of Europe."
- MEDIEVAL EUROPE, 1200-1500 3 credits 320 Middle Ages and the middle class; economic and political change, international wars, social unrest and religious crosscurrents.
- 321 EUROPE: RENAISSANCE TO RELIGIOUS WARS, 1350-1610 3 credits Survey of the social, political, economic, religious, and intellectual history of Early Modern Europe from the Italian Renaissance to the early 17th century.
- 322 EUROPE: ABSOLUTISM TO REVOLUTION, 1610-1789 3 credits Survey of the social, political, economic, religious, and intellectual history of Early Modern Europe from the Thirty Years War to the French Revolution.
- 323 EUROPE FROM REVOLUTION TO WORLD WAR, 1789-1914 3 credits Surveys the political, economic, social, and cultural history of modern Europe from the French Revolution to the First World War.

1-3 credits

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	397	IND (Ma
325	WOMEN IN MODERN EUROPE A survey of the history of women in Europe since 1500, with emphasis on their ro changes attendant on modernization.	3 credits les and the	400/	rese / <b>500</b> Prei
335	RUSSIA TO 1801 Survey of Russian history from Kievan period to death of Paul I, emphasizing deve	<i>3 credits</i> lopment of	401/	live: /501
336	autocratic government, Russian culture, reigns of Peter and Catherine. <b>RUSSIA SINCE 1801</b> Survey of 19th and 20th Centuries. Special emphasis on problems of modernization,	3 credits	403	An to E STL
	tion and development of communism.			Prei
337	FRANCE FROM NAPOLEON TO DeGAULLE Combines a study of Napoleon and DeGaulle with a survey of the political, economic, cultural/artistic trends of modern French history.	3 credits social, and	404	imp STL
338	ENGLAND TO 1688 Survey of English history from the Angli-Saxon conquest to the Revolution of 1688 and early modern institutions, social and cultural life.	<i>3 credits</i> 3. Medieval		Prei inve Aug
339	ENGLAND SINCE 1888 Survey of English history from 1688 to the present. The reform of English institution modernization of the economy, the welfare state, society and war.	<i>3 credits</i> ins and life,		<b>/516</b> Hist Brit
340	SELECTED TOPICS Includes experimental offerings such as those crossing subject of chronological line jects not listed in this General Bulletin. See departmental office for current subject.	<i>3 credits</i> s, and sub-	424;	/524 The inte
350	WOMEN IN THE UNITED STATES Changing roles, status, self-images and activities of women in context of American nomic, political and intellectual movements.	3 credits social, eco-	425,	/525 Eur em
352	THE WEST IN THE DEVELOPMENT OF THE UNITED STATES Examination of westward movement from revolution to closing of frontier; types of	<i>3 credits</i> of frontiers;		/529 Dev
354	impact of west on nation's development. <b>AMERICAN IMMIGRATION</b> Examination of European migrants to American colonies and United States, their I	3 credits	438/	/ <b>538</b> This 194
250	leaving Europe and coming to America, and their experience after arrival.		439/	/539 Pre
356	SPORTS IN AMERICAN HISTORY SINCE 1865 An examination of the reciprocal relationship between sports and various institutions culture, religion, politics, education, economics, race, ethnicity, diplomacy and gender		440	The Rev /540
358	THE AMERICAN CITY Development of urbanization and its consequences from colonial period to present.	3 credits		Em
364	AMERICAN FAMILY HISTORY Evolution of American family, colonial times to present, including developments in st roles of family members, and status of the aged. Exploration of methods for historii			<b>/543</b> An 187
366	the family. HISTORY OF AMERICAN TRANSPORTATION	3 credits	450,	/ <b>550</b> Esta and
	A survey of development of major transportation forms, water, road, rail and air. Spe sis on technological Ichange, social and economics trends, and government support a	ind control.	451	/551 U.S
370	EVOLUTION OF AMERICAN BUSINESS An examination of the development of the American business system from the Col the present.	<i>3 credits</i> lonial era to		Cole me
380	WAR AND PEACE: THE HISTORICAL PERSPECTIVE Historical examination of theories of war and peace, including study of leaders, group for peace.	3 credits is and ideas	452,	/552 AN The soc
382	THE VIETNAM WAR An examination and evaluation of all aspects of the war in Vietnam, political, military and economic, including its impact domestically then and later.	<i>3 credits</i> , diplomatic	453,	<b>/553</b> The Cor
383	SOVIET AND UNITED STATES WOMEN IN THE TWENTIETH CENTURY	3 credits		me
	An historical and comparative study of the status of women in both societies, with sp tion to changing conditions, the efforts by women, individually and collectively, to shape role.		454)	/554 Sec Cor
385-	391WORLD CIVILIZATIONS		455,	<b>/555</b> Uni
	Courses 385 through 391 are designed to provide a basic knowledge of past hur ences and an understanding of current events in key areas of the non-Western w courses can not be used to meet major requirements in History.			res
	385 WORLD CIVILIZATIONS; CHINA Prerequisite: 64 credits.	2 credits	456/	<b>/556</b> Wo
	386 WORLD CIVILIZATIONS: JAPAN Prerequisite: 64 credits.	2 credits	457	<b>/557</b> Nuc tion
	387 WORLD CIVILIZATIONS: SOUTHEAST ASIA Prerequisite: 64 credits.	2 credits	460,	/560
	388 WORLD CIVILIZATIONS: INDIA Prerequisite: 64 credits.	2 credits	461,	Esta /561
	389 WORLD CIVILIZATIONS: NEAR EAST Prerequisite: 64 credits.	2 credits	462,	Res /562
	390 WORLD CIVILIZATIONS: AFRICA Prerequisite: 64 credits.	2 credits		This stite
	391 WORLD CIVILIZATIONS: LATIN AMERICA Prerequisite: 64 credits.	2 credits	463)	/ <b>563</b> This indi
			464,	/564

397	INDIVIDUAL STUDY OR RESEARCH IN HISTORY (May be repeated for a total of four credits) Prerequisite: permission. For individua research in history, including special projects, summer study tours or specialized training	
400/	500 WOMEN IN REVOLUTIONARY CHINA Prerequisites: 300, 301 or 385, or permission of instructor. A study of the changes in lives in China during the late imperial (1644-1911) and socialist (1949-1969) periods.	3 credits women's
401/	501 IMPERIALISM IN EAST ASIA An examination of the East Asian relations in the modern period, highlighting China's to British, Russian, and Japanese imperialism in the 19th and 20th centuries.	<i>3 credits</i> s response
403	STUDIES IN GREEK HISTORY Prerequisite: Completion of six hours of History courses at the 200 or 300 level. Co investigation of selected topics, such as Homer and the Bronze Age, Athenian demo imperialism or Alexander the Great and the multi-ethnic state.	
404	STUDIES IN ROMAN HISTORY Prerequisite: Completion of six hours of History courses at the 200 or 300 level. Co investigation of selected topics, such as imperialism in middle and late Republic, a Augustus, or the fall of western Empire.	
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 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.	<i>3 credits</i> nphasis or
425/	525 THE REFORMATION Europe in 16th Century; its religious, cultural, political and diplomatic development, w emphasis on Protestant, Anglican and Catholic reformations.	3 credits vith specia
429/	<b>529 EUROPE IN THE FRENCH REVOLUTIONARY ERA, 1789-1815</b> Development of Revolution; Napoleon's regime and satellites.	3 credits
438/	IS38 NAZI GERMANY This course covers the social, economic, and political history of Germany from Work 1945 with emphasis on the Third Reich.	<i>3 credits</i> d War ⊨ to
439/	<b>539 EUROPE IN THE COLD WAR</b> Prerequisite: Six hours of 3400 courses at the 200 or 300 level, or permission of the The political, social, and cultural history of Europe from the end of the Second World Revolutions of 1989.	
440/	1540 TUDOR AND STUART ENGLAND, 1485-1714 Emphasis on social, economic and cultural topics, including literature, art and architect	3 credits ure.
443/	1543 CHURCHILL'S ENGLAND An examination of the changes that Britain experienced during the life of Winstor 1874-1965. Emphasis is on cultural, social, and political developments.	3 credits Churchill
450/	7550 THE AMERICAN COLONIES IN THE 17TH CENTURY, 1607-1713 Establishment of European colonies in America with special emphasis on English si and evolution of the first British Empire to 1713.	<i>3 credits</i> ettiements
451/	1551 THE 18TH CENTURY COLONIES AND FOUNDING OF THE U.S., 1713-1800	3 credits
	Colonial life from the Glorious Revolution to the founding of the United States. Ma ments (wars, religious revivals, economic growth) and political controversies.	ajor move
452/	7552 THE AMERICAN REVOLUTIONARY ERA: POLITICAL, MILITARY, AND CONSTITUTIONAL ASPECTS The struggle for the rights of Englishmen and independence; the impact of war on society and the creation of republican institutions.	3 credits Americar
453/	7533 AGE OF JEFFERSON AND JACKSON, 1800-1850 The evolution of the republic in its formative stages from Jefferson through Jack: Compromise of 1850. Emphasis upon political, social, intellectual and Constitution: ments.	
454/	<b>7554 THE CIVIL WAR AND RECONSTRUCTION, 1850-1877</b> Sectionalism, slavery and the causes of the Civil War; wartime activities of the Confederacy; leading personalities; problems of reconstruction and the new Union.	4 credits Union and
455/	<b>1955 THE ORIGINS OF MODERN AMERICA, 1877-1917</b> United States from Reconstruction Era to World War I (1877-1920); emphasis or responses to rise of an industrialized-urbanized society, the populist and progress ments.	
456/	556 AMERICA IN WORLD WARS AND DEPRESSION, 1917-1945 World War I and Versailles; the 1920s, the Great Depression and the New Deal; World	<i>3 credits</i> War II.
457/	7557 RECENT AMERICA: THE UNITED STATES SINCE 1945 Nuclear age, cold war, foreign policy and domestic affairs to present. Social, politica tional, diplomatic, cultural and economic changes since 1945.	<i>3 credits</i> I, constitu
460/	7560 UNITED STATES DIPLOMACY TO 1919 Establishment of basic policies, diplomacy of expansion and emergence of a world po	3 credits wer.
461/	7561 UNITED STATES DIPLOMACY SINCE 1914 Responses of government and public to challenges of war, peace making and power p	3 credits
462/	7562 U.S. CONSTITUTIONAL HISTORY TO 1870 This course will examine the creation of the U.S. Constitution and Bill of Rights, as w stitutional evolution through the Civil War.	3 credits
463/	563 U.S. CONSTITUTIONAL HISTORY SINCE 1870 This course will examine the evolution of constitutional government, as well as civil lit individual rights from the Civil War to the present.	3 credits perties and
464/	564 AMERICAN ECONOMY TO 1900 Survey of economic developments from colonial era; including agriculture, comme Special emphasis on role of big business and evolution of monetary and fiscal policy.	3 credits arce, labor

#### 465/565 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 struc-

ture 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 3 credits Pre-Columbian civilizations, discovery and conquests; colonialism, struggle for independence and formation of new societies

473/573 LATIN AMERICA: THE TWENTIETH CENTURY

Social revolution, political ideology and contemporary problems.

#### 474 THE UNITED STATES, LATIN AMERICA, AND IMPERIALISM 3 credits Inter-American relations, militarism, dependency, Marxism, and recent international and ideological trends.

475/575 MEXICO

3 credits History of Mexico from Indian civilization to present with emphasis on relations with United States: social and political ramifications of the 20th Century Mexican revolution.

#### 476/576 CENTRAL AMERICA AND THE CARIBBEAN 3 credits

Selected aspects of the histories of Central American and Caribbean countries with emphasis on populist and peasant movements, political reform, social revolution, economic and under development, and relations with the United States.

### 481/581 HISTORY OF CANADA

Survey of Canadian history from the age of the explorers to the present. Special emphasis will be placed on the history of French-Canadians, on economic development and on Canadian-American relations.

#### 482/582 WAR AND WESTERN CIVILIZATION

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.

## 485/585 FUNCTIONS OF HISTORICAL AGENCIES

3 credits Prerequisite: 410/510 or permission. The functions and programs of historical agencies. Students will develop a project that involves participating in an agency function.

### 486/586 WESTERN SCIENCE TO 1800

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.

## 488/588 WESTERN TECHNOLOGY

Technology in Mesopotamia, Egypt, Greece, Rome, Islam, medieval Europe; first and second industrial revolutions in Europe, America.

#### HONORS SEMINAR 491

Prerequisite: permission of department head or instructor. Selected readings; writing of research paper. For student seeking to graduate with honors in history and for student in Honors Program.

#### 492 HONORS PROJECT

8

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

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.

#### 494/594 WORKSHOP IN HISTORY

1-3 credits (May be repeated) Group studies of special subjects pertaining to history. May be used for elective credit only. May not be used to meet undergraduate or graduate major requirements in history

# MATHEMATICS

# 3450:

- 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: 100 or placement test. Permutations, combinations, sample spaces, events; sim-

# ple, compound and conditional probability; Bernoulli trials, expectations and odds 114 MATRICES

Prerequisite: 100 or placement test. Nomenclature, operations, inverse, solution of m linear equations in n variables using elementary row operations.

115 LINEAR PROGRAMMING Prerequisite: 114 or equivalent, Minimizing and/or maximizing a linear function subject to a sys-

tem of linear inequalities (geometrically and simplex method); introduction to game theory.

121 ANALYTIC GEOMETRY 1 credit Prerequisite: 100 or placement test. Cartesian coordinate system: rational, logarithmic, exponential functions; sequences, series, limits, definition of series.

#### 127 TRIGONOMETRY

3 credits

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

Prerequisites: 100 or 2030:153 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: 100 or placement test. Simple and compound interest; bank discount, ordinary annuities (present value, amount and rate), amortization, annuities, perpetuities 4 credits

# 140 MATH FOR ELEMENTARY TEACHERS

Prerequisites: 100 or placement test. Number systems and bases, measurement, selected topics from algebra, geometry, probability, number theory, graph theory, problem solving, combinatorics, and statistics. Enrollment limited to Elementary Education majors. 145 COLLEGE ALGEBRA 4 credits

Prerequisite: placement. 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: 145 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: 145 or 149 or placement. A foundation course in discrete mathematics with appli cations. Topics include sets, number systems, Boolean Algebra, logic, relations, functions, recursion, matrices, induction, graphs, and trees.

### 215 CONCEPTS OF CALCULUS I

4 credits Prerequisite: 145 or 149 or placement. Functions; limits and continuity; differentiation and applications of differentiation; trigonometric, logarithmic, and exponential functions; integration and applications of integration; math of finance.

#### 216 CONCEPTS OF CALCULUS II

4 credits Prerequisite: 215. Trigonometric functions, calculus of trigonometric functions, integration techniques L'Hopital's Rule, improper integrals, multiple integrals, mathematical induction, difference equations, series.

## 221 ANALYTIC GEOMETRY-CALCULUS I

Prerequisite: 149 or equivalent 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

Prerequisite: 221. Derivatives of exponential, logarithmic trigonometric, inverse trigonometric, hyperbolic and inverse hyperbolic functions; methods of integration, sequences, series; moments, centroids, indeterminate forms, polar coordinates.

## 223 ANALYTIC GEOMETRY-CALCULUS III

4 credits Prerequisite: 222. 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.

## 235 DIFFERENTIAL EQUATIONS

Prerequisite: 223 or permission of instructor. Methods of forming and solving important types of differential equations. Analysis of models involving differential equations of first order and simple equations of second order.

## 289 SELECTED TOPICS IN MATHEMATICS

Prerequisite: permission. Selected topics of interest in mathematics.

#### FUNDAMENTALS OF ADVANCED MATHEMATICS 307

Prerequisite: 222. 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

Prerequisite: 223 or permission of instructor. Study of vector spaces, linear transformations, matrices, determinants, inner products, the eigenvalue problem, quadratic forms and canonical forms.

3 credits

4 credits

4 credits

3 credits

1-3 credits

3 credits

1 credit

1 credit

3 credits

1-2 credits

#### 335 INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS 3 credits Prerequisite: 223 or equivalent. Basic techniques for solving ODES, an introduction to theoretical topics including existence and uniqueness of solutions, linear systems, stability of solutions, and phase plane analysis.

#### 401/501 HISTORY OF MATHEMATICS

Prerequisite: 222. Origin and development of mathematical ideas. Course does not meet degree requirement in the department.

#### 410/510 ADVANCED LINEAR ALGEBRA

3 credits Prerequisite: 312. Study of vector spaces, linear transformation, canonical and quadratic forms, inner product spaces.

#### 411/511 ABSTRACT ALGEBRA I

Prerequisite: 307 or permission of instructor. Study of groups, rings, fields, integral domains.

412/512 ABSTRACT ALGEBRA II 3 credits Prerequisite: 411/511 or permission of instructor. Study of groups, rings, fields, integral domains, vector spaces, field extensions, Galois theory.

#### 413/513 THEORY OF NUMBERS

Prerequisite: 222 or permission. Euclidean algorithm, unique factorization theorem, congruences, primitive roots, indices, quadratic residues, number-theoretic functions, Gaussian integers and continued fractions.

#### 414/514 VECTOR ANALYSIS

3 credits Prerequisite: 223. Vector algebra, calculus of scalar-vector, vector-scalar, vector-vector functions; integral theorems; orthogonal and general curvilinear. Application of geometry and engineering.

## 415/515 COMBINATORICS AND GRAPH THEORY

Prerequisite: 222 or permission. Introduction to basic ideas and techniques of mathematical counting; properties of structure of systems.

## 421,2/521,2 ADVANCED CALCULUS | AND II

Sequential. Prerequisite: 223; 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

Prerequisite: 223. Complex variables; elementary functions, differentiation and analytic func-tions; integration and Cauchy's theorem; power series and Laurent series; residue theorem; applications such as conformal mappings, inversion of integral transform.

427/527 INTRODUCTION TO NUMERICAL ANALYSIS 3 credits Prerequisites: 223 and either 3460:201 or knowledge of FORTRAN. Mathematical analysis of numerical methods for solving equations, interpolating function values, approximating derivatives and integrals, approximating functions.

## 428/528 NUMERICAL LINEAR ALGEBRA

Prerequisites: 223 and 3460:201 or 330 or knowledge of FORTRAN. Mathematical analysis of numerical methods for solving systems of linear equations, eigenvalue problems, nonlinear systems, linear least square problems.

429/529 NUMERICAL SOLUTIONS FOR ORDINARY DIFFERENTIAL EQUATIONS 3 credits Prerequisite: 427/527. Mathematical analysis of numerical methods for solving ordinary differential equations. Runge-Kutta and linear multistep methods for initial value problems. Shooting, collocation and difference methods for boundary value problems.

## 430/530 NUMERICAL SOLUTIONS FOR PARTIAL DIFFERENTIAL EQUATIONS

Prerequisite: 428/528 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.

431/531 SPECIAL FUNCTIONS AND OPERATIONAL CALCULUS 3 credits Prerequisite: 235 or 335. Series solutions to differential equations; Bessel functions; orthogonal polynomials; self-adjoint boundary value problems and Fourier series; Laplace transforms; Fourier transforms.

### 432/532 PARTIAL DIFFERENTIAL EQUATIONS

Prerequisite: 235 or 335. 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: 235 or 335 and either 312 or 428 or permission. Analysis, solution of systems of

equations, linear, nonlinear. Topics: stability theory, perturbation methods, asymptotic methods, applications from physical, social sciences.

#### 436/536 MATHEMATICAL MODELS

Prerequisite: 235 or 335, 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.

### 438/538 ADVANCED ENGINEERING MATHEMATICS I

3 credits Prerequisites: 235 and 312 or permission. Matrices, eigenvalue problems, systems of ODEs, vector analysis, complex variables.

#### 439/539 ADVANCED ENGINEERING MATHEMATICS II

Prerequisites: 235 and 312 or permission. Special functions, Fourier series and transforms,

### 441/541 CONCEPTS IN GEOMETRY

4 credits Prerequisite: 222 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.

#### 442/542 PROJECTIVE GEOMETRY

Prerequisite: 222 or permission. Complex projective planes, duality, homogeneous coordinates, 1-1 correspondence, cross ratios, harmonic ranges, conics, quadrilaterals, quadrangles, applications to Euclidean geometry, quadric surfaces.

- 445/545 INTRODUCTION TO TOPOLOGY 3 credits Prerequisite: 307 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 statistics. May not be used to meet undergraduate or graduate major requirements in mathematics and statistics. May be used for elective credit only.

#### 497 INDIVIDUAL READING Prerequisites: senior standing and permission. Mathematics majors only. Directed studies

- X designed as an introduction to research problems, under guidance of selected faculty member SENIOR HONORS PROJECT 1-3 credits 498
  - Prerequisite: 489 (honors). Directed study for senior student in the Honors Program who has completed 489 (honors). An introduction to research problems in mathematical sciences under
  - the guidance of selected faculty.

3 credits

4 credits

3 credits

3 credits

3 credits

3 credits each

# 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 BASIC PROGRAMMING 3 credits Prerequisite: 3450:100 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.
- COMPUTERS IN TODAY'S WORLD 3 credits Introduction to nature of computers and their capabilities. Special attention given to topics such as effects of computer on privacy, employment and education; ethics in computer community; potential for computer crime. Designed for non-majors.
- 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: 3450:145 or 149 or equivalent. Does not meet computer science major, minor and/or certificate requirements
- 202 INTRODUCTION TO COBOL PROGRAMMING 3 credits Prerequisites: 3450:145 or 149 or equivalent. Does not meet computer science major, minor and/or certificate requirements
- 205 INTRODUCTION TO PASCAL PROGRAMMING 3 credits Prerequisites: 3450:145 or 149 or equivalent. Does not meet computer science major, minor and/or certificate requirements.
- 206 INTRODUCTION TO C PROGRAMMING 3 credits Prerequisites: programming experience and 3450:145 or 149. 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
- 209 INTRODUCTION TO COMPUTER SCIENCE 4 credits Prerequisite: 3450:145, 149 or equivalent. An introduction 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: 209 and 3450:208. 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: 210. Applications of COBOL, JCL and file manipulation; intended to introduce business data processing techniques to the business option computer science major. Does not meet major requirements for mathematics option computer science students
- 306 ASSEMBLY LANGUAGE PROGRAMMING 3 credits Prerequisite: 210. Basic computer organization and data representation. Programming in assembly language on a typical digital computer Subroutine linkage and macro instructions.
- APPLIED SYSTEMS PROGRAMMING 3 credits Prerequisite: 306. Design and implementation of assemblers, linkers, loaders and macro processors. Introduction to compilers.
- 316 DATA STRUCTURES AND ALGORITHMS II 3 credits Prerequisites: 210 and 3450:221 or 3450:215. A continuation of topics in 210. Topics include: graphs and graph algorithms, external sorting, hashing, advanced tree and file structures.
- SURVEY OF PROGRAMMING LANGUAGES 330 Prerequisite: 210 or programming experience in a high-level block-structured procedural pro-gramming 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 Mathematical Sciences.)

#### 401/501 FUNDAMENTALS OF DATA STRUCTURES

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

Prerequisite: programming experience. Syntax of C with flow structures, pointers, and command line concepts. For UNIX, shell scripts, UNIX file structure, system calls and interprocess communication protocols. (Not an approved mathematical sciences major, minor, or certificate elective.)

### 408/508 WINDOWS PROGRAMMING

Prerequisites: 208 or 210 or 406 or 506 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: 210 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

Prerequisite: 316 and 418. 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: 316. Object-oriented design, analysis, and programming using different development models. Comparison with other programming paradigms.

### 426/526 OPERATING SYSTEMS

Prerequisites: 306 and 316, or 501, or equivalents. Introduction to various types of operating systems: batch processing systems, multiprogramming 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: 316 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: 316. 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

3 credits Prerequisites: 316 and 418. Design and analysis of efficient algorithms for random access machines; derivation of pattern classification algorithms.

#### 440/540 COMPILER DESIGN

Prerequisites: 307 and 316. 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 handling 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

Prerequisites: 210 and knowledge of C. 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

Prerequisite: 316 and knowledge of C. Topics in vector graphics, scan line graphics, representations and languages for graphics.

### 460/560 ARTIFICIAL INTELLIGENCE AND HEURISTIC PROGRAMMING

Prerequisite: 316. Study of various programs which have displayed some intelligent behavintelligence. ior. Exploration of level at which computers can display

#### 465/565 COMPUTER ORGANIZATION

Prerequisite: 306. 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

Prerequisites: 306, 316. 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: 418. Presentation of theory of formal languages and their relation to automata. Topics include description of languages; regular context-free 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: 316. Fundamentals of database organization, data manipulations and representation, data integrity, privacy.

### 477/577 INTRODUCTION TO PARALLEL PROCESSING

3 credits Prerequisites: 316 and knowledge of C. Commercial processors: past and present. Parallel lan-guages, models of parallel computation, parallel algorithm design and performance evaluation. Parallel paradigms with relation to real world applications.

## 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

#### 491/591 WORKSHOP IN COMPUTER SCIENCE Group studies of special topics in computer science. May not be used to meet graduate or

undergraduate requirements in mathematics, statistics or computer science 1-3 credits

# 497/597 INDIVIDUAL READING IN COMPUTER SCIENCE

(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

- Prerequisite: 489 (honors). Directed study for senior student in the Honors Program who has completed 3460:489. An introduction to research problems in the mathematical sciences under
- the guidance of selected faculty.

# **STATISTICS**

# 3470:

3 credits

1-3 credits

1-3 credits

#### 260 BASIC STATISTICS 3 credits Prerequisite: Mathematics Placement Test, Applied approach to data description and statistical inference (hypothesis testing, estimation). Analysis of ratios, rates, and proportions. Computer applications. Laboratory

#### 261 INTRODUCTORY STATISTICS |

Prerequisite: Mathematics Placement Test. Descriptive statistics, tabular and graphical data displays, probability, probability distributions. Introduction to statistical inference (hypothesis testing, 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.

### 415/515 MATHEMATICAL CONCEPTS FOR STATISTICS

Prerequisites: 3450:223, 3450:312, or equivalent. Topics from matrix algebra and analysis: quadratic forms, eigenvalues and roots, generalized inverses, vector functions, continuity, differentiation, extrema problems, multivariate integration, infinite series, and application. May not be used to meet graduate degree requirements for Mathematical Sciences majors.

#### 450/550 PROBABILITY 3 credits

Prerequisite: 3450:221, Introduction to probability, random variables and probability distributions. expected value, sums of random variables, Markov processes. 3 credits each

### 451 2/551 2 THEORETICAL STATISTICS LAND II

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

#### 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 dearee requirements.

#### 461/561 APPLIED STATISTICS I 4 credits

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 II Prerequisite: 461/561 or equivalent. Applications of the techniques of regression and multifactor

techniques

analysis of variance 465/565 DESIGN OF SAMPLE SURVEYS 3 credits Prerequisite: 461/561 or equivalent. Design and analysis of frequently used sample survey

# 469/569 RELIABILITY MODELS

3 credits Prerequisite: 461/561. Selected topics in reliability modeling including parametric and nonparametric models, competing modes of failure, censored data and accelerated life models

## 471/571 ACTUARIAL SCIENCE I

Prerequisite: 451/551 or 461/561 or equivalent. Study of various statistical, financial, and mathematical calculations used to determine insurance premiums related to contingent risks based on individual risk model frameworks.

#### 472/572 ACTUARIAL SCIENCE II 3 credits

Prerequisite: 471/571. Continuation of Actuarial Science I. Study of multiple life functions, multiple decrement models, valuation theory for pension plans, insurance models including expenses, 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 3 credits 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

1-3 credits Prerequisite: 480/580 or permission. Students will be assigned to work with an instructor on current 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

1-3 credits

2 credits

1-3 credits

4 credits

4 credits

4 credits

3 credits

3 credits

1-3 credits

1-3 credits

#### 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.

1-2 credits

- 498 SENIOR HONORS PROJECT
- 1-3 credits 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 II 4 credits each (May be repeated for a different language) Sequential. Reading, speaking, writing and listen ing comprehension; intensive drill in pronunciation; short stories, outside reading and supplementary work in language laboratory.
- 201,2 INTERMEDIATE MODERN LANGUAGE I AND II 3 credits each (May be repeated for a different language) Sequential. Prerequisite: 102 or equivalent. Grammar review, practice in reading, writing, speaking and listening comprehension; short stories, plays, novels on intermediate level
- 320 FRENCH CANADIAN LITERATURE IN TRANSLATION 3 credits Prerequisite: French major and minors only; 3520:306. Reading and discussion of English translations of French Canadian Literature. French majors and minors must read original French version and do all writing in French.
- 422 MODERN LANUAGES: SPECIAL TOPICS IN ADVANCED 1-4 credits LANGUAGE SKILLS, OR CULTURE, OR LITERATURE 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 2 credits

(May be repeated) Group studies of special topics in modern languages.

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 lead-

ing to completion of senior honors thesis or other original work

# FRENCH

# 3520:

- 101.2 BEGINNING FRENCH | AND II 4 credits each Sequential. Thorough study of sound system and basic structural patterns of French language, including oral practice and reading of simple prose. A placement test is required.
- 201,2 INTERMEDIATE FRENCH I AND II 3 credits each Sequential Prerequisite: 102 or equivalent, Audio-oral sections, Practice in reading, writing, speaking and listening comprehension. Grammar review, short stories, plays and novels on intermediate level. A placement test is required.
- 207,8 INTERMEDIATE FRENCH I AND II READING OPTION 3 credits each Sequential. Prerequisite: 102 or equivalent. Reading and translation of texts dealing with contrasting French and American customs, values and attitudes.
- 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.
- 407/507 FRENCH LITERATURE OF THE MIDDLE AGES 4 credits AND THE RENAISSANCE Prerequisite: 305 or 306 or equivalent. Reading and discussion of selected Medieval and
- Renaissance literary works. Conducted in French.
- 411/511 17TH CENTURY FRENCH LITERATURE 4 credits Prerequisite: 305 or 306 or equivalent. Reading and discussion of selected works in poetry, drama and novels. Conducted in French.
- 415/515 18TH CENTURY FRENCH LITERATURE 4 credits Prerequisite: 305 or 306 or equivalent. Reading and discussion of selected authors: emphasis on the Philosophies, Conducted in French.
- 419/519 19TH CENTURY FRENCH LITERATURE 4 credits Prerequisite: 305 or 306 or equivalent. Reading and discussion of selected works pertaining to romantic, realistic and naturalistic movements. Conducted in French.
- 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.
- 429/529 FRANCOPHONE CARIBBEAN LITERATURE 3 credits Prerequisites: 305 or 306 or equivalent. A study of selected literary works from Haiti, Guadeloupe, and Martinique in light of their geographic, historic, socioethnic, and cultural determinants
- 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.
- 460/560 SELECTED THEMES IN FRENCH LITERATURE 3 credits Prerequisite: 305 or 306 or equivalent. (May be repeated.) Conducted in French. Prerequisite: 302 and 306 or equivalents. Reading and discussion of literary works selected according to an important theme
- 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 Prerequisite: 202 and permission of department chair

# GERMAN

# 3530:

## 101,2 BEGINNING GERMAN I AND II

- 4 credits each Sequential. Reading, speaking, writing and listening comprehension; intensive drill in pronuncia-tion; short stories, outside reading and supplementary work in language laboratory.
- 201,2 INTERMEDIATE GERMAN I AND II 3 credits each Sequential. Prerequisite: 102 or equivalent. Grammar review, reading, writing, speaking, listening comprehension; short stories, plays, novels on intermediate level; outside reading and supplementary work in language laboratory.
- 207,8 INTERMEDIATE GERMAN I AND II READING OPTIONS 3 credits each Sequential. Prerequisites: 102 or equivalent and permission. Reading of German texts in culture and civilization, discussion in English, translation and grammatical analysis. Not open to majors
- 250 20TH CENTURY GERMAN LITERATURE IN TRANSLATION 2 credits Reading and discussion of works of Mann, Rilke, Hesse, Kafka, Benn, Brecht, Frisch, Durrenmatt, Borchert and Grass. May not be taken for credit toward the major in German.
- 251 19TH CENTURY GERMAN LITERATURE IN TRANSLATION 2 credits Reading and discussion of works in Kleist, Heine, Hebbel, Keller, Storm, Meyer and Hauptmann. May not be taken for credit toward the German major.

252 AGE OF GOETHE IN TRANSLATION 2 credits Reading and discussion of representative drama, prose and poetry of Lessing, Goethe and Schiller, May not be taken for credit toward the German major. 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. 350 BODIES AND MACHINES: 3 credits TECHNOLOGY AND GERMAN CULTURE SINCE 1871 The impact of industrialization and the growing role of technology on German society as docu-mented in literary texts, essays, film and other forms of art. Conducted 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. 419/519 THE AGE OF GOETHE I 3 credits Prerequisite: 302 or 306 or permission. Enlightenment and generation of Sturm und Drang, including works of Wieland, Lessing, Kloptock, Herder, the young Goethe and others Conducted in German, 420/520 THE AGE OF GOETHE II 3 credits Prerequisites: 302, 306 or permission. Faust, selections from parts I and II. Ballads of Goethe and Schiller. Conducted in German 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. 431/531 200 YEARS OF GERMAN DRAMA 3 credits Prerequisite: 302 or 306 or permission. Representative works of major classical dramatics including Lessing, Goethe, Schiller, Kleist, Grillparzer. Conducted in German. 432/532 200 YEARS OF GERMAN DRAMA 3 credits Prerequisite: 302 or 306 or permission. Representative works of the major dramatists, Buchner, Hebbel, Hauptmann and Wedekind. Conducted in German. 435/535 GERMAN SHORT STORY 3 credits Prerequisite: 302 or 306 or permission. Reading and discussion of representative works of German romanticism, including those of Tieck, Kleist, E. T. A. Hoffman, Brentano, Eichendorff. Conducted in German. 436/536 GERMAN SHORT STORY 3 credits Prerequisite: 302 or 306 or permission. Reading and discussion of works representative of the period, including those of Droste-Hulshoff, Stifter, Keller, Meyer, Storm. Conducted in German. 439/539 20TH CENTURY LITERATURE I 3 credits Prerequisite: 302 or 306 or permission. Clash of the old and the new at the turn of the century Works of T. Mann, Hauptmann, Kaiser, Hofmannsthal, Rilke, Wedekind and others. Conducted in German. 440/540 20TH CENTURY GERMAN LITERATURE II 3 credits Prerequisite: 302 or 306 or permission. Impact of modernity. Reading and discussion of writings of Hesse, Kafka, Doblin, Werfel and others. Conducted in German. 471/571 GERMAN LANGUAGE READING PROFICIENCY 4 credits Designed to develop proficiency in reading comprehension. 497,8 INDIVIDUAL READING IN GERMAN 1-3 credits each Prerequisite: 202 and permission of department chair ş

# ITALIAN

# 3550:

101.2 BEGINNING ITALIAN I AND II 4 credits each Sequential. Reading, speaking, writing and listening comprehension; intensive drill in pronunciation; short stories, outside reading and supplementary work in language laboratory

201,2 INTERMEDIATE ITALIAN I AND II 3 credits each Sequential. Prerequisite: 102 or equivalent. Grammar review, practice in reading, writing, speaking and listening comprehension; short stories, plays, novels on intermediate level; outside reading and supplementary work in language laboratory.

207.8 INTERMEDIATE ITALIAN I AND II READING OPTION 3 credits each Sequential. Prerequisite: 102 or equivalent. Readings cover various aspects of Italian culture through the centuries, with particular emphasis on history, literature, art and contemporary Italian way of life as compared with American one.

250 GENIUS OF ITALIAN LITERATURE IN TRANSLATION 2 credits Reading and discussion of works of Dante, Petrarca, Boccaccio, Ariosto, Machiavelli, Cellini, Tasso, Bruno and Pirandello De Fillippo.

#### 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 dis-

	cussion 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 l	anguage 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. Ý

# RUSSIAN

301.2 ITALIAN COMPOSITION AND CONVERSATION

# 3570:

101.2 BEGINNING BUSSIAN LAND II 4 credits each Reading, speaking, writing, and understanding; intensive drill in pronunciation and supplementary work in language laboratory

201,2 INTERMEDIATE RUSSIAN I AND II 3 credits each Prerequisite: 102 or equivalent. Grammar review, practice in reading, writing, speaking; short stories, novels on intermediate level; outside reading and supplementary work in language laboratory

207.8 INTERMEDIATE RUSSIAN I AND II READING OPTION 3 credits each Sequential. Prerequisite: 102 or equivalent. Reading of texts in Russian dealing with culture of Russian-speaking people. Discussion of content of these texts in English along with review of grammar to extent necessary for accurate understanding of texts. Not open to majors.

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

305,6 INTRODUCTION TO RUSSIAN LITERATURE 3 credits each Prerequisite: 202 or equivalent. Reading and class discussion in Russian of representative works

309.10 RUSSIAN CIVILIZATION AND CULTURE 3 credits each Prerequisite: 202 or equivalent. Reading and discussion of Russian texts relating to develop ments in Russian civilization and culture

351,2 TRANSLATION: RUSSIAN 3 credits each

- 403,4 ADVANCED RUSSIAN COMPOSITION AND CONVERSATION 3 credits each Prerequisite: 302 or equivalent. Thorough analysis of syntax, morphology, phonetic principles and grammatical structure.
- 411,2 SCIENTIFIC RUSSIAN 3 credits each Prerequisite: 202 or equivalent. Intensive reading of scientific articles in chemistry, physics, mathematics, biology and medicine.

420.1 RUSSIAN LITERATURE OF THE 19TH CENTURY: 3 credits each ROMANTICISM AND REALISM

Prerequisites: 301 or 302 or permission. Readings from representative authors such as Pushkin, Lermontov, Gogol, Turgenev, Dostoyevsky, Tolstoy, Goncharov and others.

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.

427,8 RUSSIAN LITERATURE OF THE 20TH CENTURY 3 credits each Prerequisite: 202 or equivalent. Reading and discussion of selected literary works from Gorky to Solzhenitsyn

439 ADVANCED RUSSIAN SYNTAX, GRAMMAR AND CONVERSATION 3 credits Prerequisite: 404 or equivalent. Advanced work in composition, translation into Russian and idiomatic use of the spoken language.

497,8 INDIVIDUAL READING IN RUSSIAN 1-3 credits each Prerequisite: 202 and permission of the department chair. Ś

# **SPANISH**

422 RUSSIAN: SPECIAL TOPICS IN ADVANCED

# 3580:

conversational ability

101.2 BEGINNING SPANISH I AND II 4 credits each Sequential. Reading, speaking, writing and listening comprehension; intensive drill in pronunciation; short stories, outside reading and supplementary work in language laboratory.

201,2 INTERMEDIATE SPANISH | AND || 3 credits each Sequential. Prerequisite: 102 or equivalent. Grammar review, practice in reading, writing, speaking and listening comprehension; short stories, plays novels on intermediate level; outside reading and supplementary work in language laboratory

301 SPANISH CONVERSATION Prerequisite: 202 or equivalent. Development of oral expression, listening comprehension and

3 credits

- 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 3 credits 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 Prerequisites: 3400:210. (May not be taken for credit toward the Spanish major.) Reading, discussion of novels, short stories of major Spanish-American. 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 Prerequisite: 303 or equivalent. Advanced study of Spanish syntax and grammatical analysis.
- 405/505 SPANISH LINGUISTICS: PHONOLOGY 4 credits
- Prerequisite: 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: 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 movem, ents in Spain from the Middle Ages to the present. Conducted in Spanish.
   1
- 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.
- 409/509 CULTURAL MANIFESTATIONS 4 credits IN MEDIEVAL AND RENAISSANCE SPAIN
- Prerequisite: 407 or 408 or permission. Comparative study of representative artistic and literary works of the Medieval and Rennaisance periods. Conducted in Spanish.
- 411/511 SPAIN DURING THE BARCOULE 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 Renaissance and Baroque esthetics. Conducted in Spanish.
- 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 Percentifies 402 or 408 or instructor's parmission. A comparative study of the major literary and
  - 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 SPAIN
  - Prerequisite: 407 or 408 or instructor's permission. Traces the diverse representations of indigenous 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 4 credits 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 Carribean, from a Hispanic perspective. Conducted in Spanish.
- 471/571 SPANISH LANGUAGE READING PROFICIENCY
   4 credits

   Designed to develop proficiency in reading comprehension.
   42

   497 INDIVIDUAL READING IN SPANISH
   1-3 credits

   Designed to develop proficiency in seding comprehension.
   1-3 credits
- Prerequisite: 202 and permission of department chair.

# PHILOSOPHY

# 3600:

- 101 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 discussions; 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 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.
- 216 AMERICAN PHILOSOPHY 3 credits Prerequisite: one course in philosophy or permission of instructor. Movement of ideas in American from Royce to present.
- 232 PHILOSOPHY OF RELIGION 3 credits Prerequisite: one philosophy course. Discussion, analysis of problems of theology, nature of religious experience; God's nature, existence; immortality, sin, faith, reason; holy revelation, redemption.
- 280 SOPHOMORE TOPICS IN PHILOSOPHY 1-3 credits (May be repeated for a total of six credits) Prerequisite: permission of instructor. Selected topics in philosophy at the sophomore level.
- 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 Ethical Theory such as the Naturalistic Fallacy, Ethical Non-Cognitivism, Prescriptivism, Theories of Rights, Theories of Punishment, Nihilism, Relativism, Moral Skepticism. 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 normative justification of social, political institutions and practices. Analyses concepts such as rights, justice, equality, political obligation from historical as well as contemporary points of view. Application to particular social issues covered.

### 332 DIALECTICAL MATERIALISM

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 metaphysics, social philosophy, philosophy of history, human nature, ethics, aesthetics.

### 350 PHILOSOPHY OF ART

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.

#### 361 BIOMEDICAL ETHICS

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

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

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.

#### 371 PHILOSOPHY OF MIND

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

Prerequisite: 170 or permission of instructor. Detailed consideration of propositional and firstorder predicate logic. Introduction to class logic, modal logics and axiomatics.

#### 380 JUNIOR TOPICS IN PHILOSOPHY

1-3 credits (May be repeated for a total of six credits) Prerequisite: permission of instructor. Selected topics in philosophy at the junior level.

### 390 JUNIOR HONORS COLLOQUIUM

Prerequisite: junior standing in Honors Program or junior honors standing as philosophy major or permission of instructor or nomination by department faculty member. Selected readings, research, writing and defense of one or more philosophical projects. Preparation and foundation for senior honors project in philosophy.

#### 411/511 PLATO

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

Prerequisites: 211, 312 and 313 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

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

Prerequisite: one course in philosophy or permission of instructor. Philosophical inquiry into the nature of law and legal institutions.

#### 422/522 CONTINENTAL RATIONALISM

Prerequisites: one introductory course and 313 or permission of instructor. Intensive analysis of selected major writings of Descartes, Spinoza and Leibnitz.

#### 424/524 EXISTENTIALISM

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

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

Prerequisites: 211 or permission of instructor. Detailed study of Aristotle's metaphysics, philosophy of nature, philosophy of mankind and ethics.

434/534 KANT
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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.

#### 444/544 PROBLEMS IN PHILOSOPHY

Prerequisites: two courses in philosophy or permission of instructor. Thorough, critical examination of one major philosophical problem

#### 462/562 THEORY OF KNOWLEDGE

Prerequisites: three courses in philosophy. 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

Prerequisites: 101, 170 or permission of instructor. Nature of scientific inquiry, types of explanation, laws and causality, theoretical concepts and reality. Also considers critics of hypotheticaldeductive view of science, e.g., Hanson and Kuhn.

## 471/571 METAPHYSICS

Prerequisites: 211, 312 and 313 or permission of instructor. Theories about ultimate nature and ultimate explanation of reality. Uses readings from classical and contemporary sources

### 480/580 SEMINAR

(May be repeated) Prerequisite: permission of instructor

### 481/581 PHILOSOPHY OF LANGUAGE

3 credits

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 linquists such as Chomsky.

## 490 SENIOR HONORS PROJECT IN PHILOSOPHY

(May be repeated for a total of six 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

(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:

#### 4 credits 130 DESCRIPTIVE ASTRONOMY Qualitative introduction to astronomy, intended primarily as a first science course for non-science majors. Includes laboratory and observational activities.

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.

## 137 LIGHT

4 credits Introductory, qualitative course dealing with the nature of light and the interaction of light with various materials to produce common visual effects. Laboratory activities included that provide experience in scientific investigation.

#### 160 PHYSICS IN SPORTS 3 credits

An introduction to physics, particularly mechanics. Athletic activities utilized to illustrate principles.

- 261 PHYSICS FOR THE LIFE SCIENCES I 4 credits 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 Prerequisite: 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 I AND H 1 credit each Corequisites: 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 1 credit each 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.

#### 301 ELEMENTARY MODERN PHYSICS 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 3 credits

#### Prerequisite: 262 or 292. AC and DC circuit theory, digital integrated logic circuits, counters, digital waveshaping, A to D and D to A conversion and applications.

#### 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.

2 credits each

### 322.23 INTERMEDIATE LABORATORY | AND II

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.

331,2 ASTROPHYSICS | AND II 3 credits each Prerequisite: 262 or 292. One-year comprehensive, qualitative course recommended for student majoring in physics or natural science, and for secondary school teachers and others desiring comprehensive survey of astronomy and astrophysics at intermediate level.

3 credits

1-6 credits

1-3 credits

#### 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.

### 350 MODELING AND SIMULATION

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.

3 credits

1-6 credits

3 credits

3 credits

3 credits

3 credits

3 credits

2 credits each

3 credits

2 credits each

3 credits each

1-4 credits

1-4 credits

1-4 credits

#### 399 UNDERGRADUATE RESEARCH

(May be repeated) Prerequisite: permission of instructor. Participation in current research project ۴ in department under supervision of faculty member.

## 400/500 HISTORY OF PHYSICS

Prerequisite: 262 or 292. Study of origin and evolution of major principles and concepts characterizing contemporary physics.

#### 406/506 OPTICS

Prerequisites: 320 and 3450:235. Propagation, reflection and refraction of electromagnetic waves, Superposition, polarization, interference and interferometry, Fresnel and Fraunhofer diffraction, Fourier optics, coherence theory and quantum optics.

### 431/531 MECHANICS I

3 credits Prerequisites: 292 and 3450:235. Mechanics at intermediate level. Newtonian mechanics motion of a particle in one dimension, central field problem, system of particles, conservation laws, rigid bodies, gravitation.

#### 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 or rigid bodies, vibration theory.

#### 436/536 ELECTROMAGNETISM I

Prerequisites: 292, 3450:235 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

Prerequisite: 436/536. Special relativity, four vectors, Maxwell's equations in covariant form; propogation, reflection and refraction of electromagnetic waves; multipole radiation

#### 441/541 QUANTUM PHYSICS I

3 credits Prerequisites: 301 and 3450:235. Introduction to quantum theory, Schrodinger equation, observables, angular momentum, perturbation theory, variational principle, bound states, scatter ing 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.

### 451,2/551,2 ADVANCED LABORATORY | AND II

Prerequisite: 323 or permission of instructor. Applications of electronic, solid-state devices, techniques to research-type projects in contemporary physics. Introduction to resonance techniques; nuclear magnetic resonance, electron spin resonance, nuclear quadrupole resonance. Scintillation spectroscopy. Alpha- and beta-ray spectroscopy.

### 468/568 DIGITAL DATA ACQUISITION

3 credits 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.

### 471,2/571,2 NMR SPECTROSCOPY I AND II

Prerequisite: 292 or permission of instructor. Theoretical basis and experimental techniques of NMR spectroscopy. Classical concepts and quantum mechanical treatments of NMR. Bloch equations; spin-spin and spin-lattice relaxation times. Steady state and transient phenomena. General features of broadline and high-resolution NMR spectra. NMR instrumentation and operating principles. Theory and analysis of high-resolution NMR spectra. Quantitative applications of broadline and high-resolution NMR spectra and determination of physical and chemical structures.

## 481,2/581,2 METHODS OF MATHEMATICAL PHYSICS I AND II

Prerequisites: 292, 3450:235 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

3

(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

1 credit 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) 120 CURRENT POLICY ISSUES 3 credits Survey of contemporary public policy issues by applying a broad conceptual framework. Cannot be used for credit toward major in political science. 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. 220 AMERICAN FOREIGN POLICY 3 credits Examination of American foreign policy-making process; public opinion and other limitations on policy; specific contemporary problems in selected areas. 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. 301 ADVANCED POLITICAL RESEARCH 3 credits Prerequisite: 201 or permission of instructor. Study and practice of political science research methods. Data collection, statistical analysis and presentation of empirical research projects. Computer applications used. 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 monetary 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 Switzeriand, 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. 325 COMPARATIVE PUBLIC POLICY 3 credits Considers the formulation, decisions, implementation, impact of public policies in a comparative perspective. By examining public policies in a variety of countries the relationship of different economic and political systems to policy outcomes is observed. 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 330 CANADIAN POLITICS 3 credits An examination of the instructions and processes of Canadian government; a survey of some of the pressing issues confronting public decision makers in Canada. 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. 350 THE AMERICAN PRESIDENCY 3 credits The presidency as focal point of politics, policy and leadership in American political system. 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.
- 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 socioeconomic problems. Special emphasis on legislators, administrators, parties and interest groups.
- 382 INTERGOVERNMENTAL RELATIONS 3 credits An examination of the history, theory, contemporary activities of intergovernmental relations in the United States. Interactions of local, state federal units of government will be considered.
- 391 HONORS IN POLITICAL SCIENCE 3 credits Prerequisites: at least 17 credits and a 3.25 average in political science and permission of adviser
- 392 SELECTED TOPICS IN POLITICAL SCIENCE 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

- (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. 1-4 credits

#### 397 INDEPENDENT STUDY

- (May be repeated for a total of four credits) Prerequisites: senior standing, 3.00 grade-point averλ age and permission of advise
- 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

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

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.

- 411/511 THEORIES OF INTERNATIONAL POLITICAL ECONOMY
- Prerequisite: 310 or permission of instructor. This course examines the predominant and com-peting theories of international political economy, including imperialism, world systems analysis, long-wave theory, neo-mercantilism, and neo-realism

### 412/512 GLOBAL ENVIRONMENT POLITICS

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

Prerequisite: 310 or 220 or permission. Study of foreign policies of selected nations, with special attention to processes and instruments of decision making of the major powers.

420/520 ISSUES AND APPROACHES IN COMPARATIVE POLITICS

Prerequisite: 300 or permission of instructor. Detailed examination of approaches to the study of comparative politics, political parties, elites and various theories of revolution.

#### 425/525 LATIN AMERICAN POLITICS

3 credits Prerequisite: 300 or permission of instructor. Examination of patterns of government and politics in Latin American area.

#### 440/540 SURVEY RESEARCH METHODS

3 credits Prerequisites 100 or 120 or permission. Study of survey research methods as applied to the analysis of public opinion, political behavior, and public policy formation.

#### 441/541 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

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.

#### 461/561 THE SUPREME COURT AND CONSTITUTIONAL LAW 3 credits

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.

### 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.

470/570 CAMPAIGN MANAGEMENT I 3 credits Prerequisite: Six credits of political science or permission. 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

Prerequisite: six credits of political science or permission. Reading and research in financial decision making in political campaigns. 473/573 VOTER CONTACT AND ELECTIONS 3 credits Prerequisite: six credits of political science or permission. 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 3 credits Prerequisite: six credits of political science or permission. Reading and research on the development, structure and function of interest groups in the United States.

3 credits

3 credits

#### 476/576 AMERICAN POLITICAL PARTIES

opment, structure and function of parties in the United States. 480/580 POLICY PROBLEMS 3 credits (May be repeated for a total of six credits) Prerequisite: 380 or permission. Intensive study of selected problems in public policy

Prerequisites; six credits of political science or permission. Reading and research on the devel-

## 490/590 WORKSHOP

2-9 credits

3 credits

ments to psychoses

472/572 CAMPAIGN FINANCE

1-3 credits (May be repeated) Group studies of special topics in political science. May not be used to meet undergraduate or graduate requirements in political science. Elective credit only.

- 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 lead-
- ing 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 4 credits 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 4 credits Prerequisite: 100. An overview of theory and research involving the development, maintenance and assessment of personality and individual differences.
- 340 SOCIAL PSYCHOLOGY 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 4 credits 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 current 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: 510-admission 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, etiolo-gy, diagnosis and treatments of major psychological conditions ranging from transient maladjust-

4 credits

3 credits

3 credits

3 credits

#### 430/530 PSYCHOLOGICAL DISORDERS OF CHILDREN

4 credits Prerequisites: 430-100 and 230; 530-admission to the Graduate School. Survey of syndromes, etiologies and treatments of behavioral disorders in children from standpoint of developmental psychology. Behavioral data and treatment approaches emphasized.

### 435 CROSS-CULTURAL PSYCHOLOGY

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.
- CLINICAL AND COUNSELING PSYCHOLOGY I 441 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, per-sonality and ability testing, marriage and family counseling, hypnosis, sex therapy, psychopharmacology 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

4 credits 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

Prerequisites: 445-100; 545-admission to the Graduate School. Intensive investigation of factors 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

Prerequisite: 450-100 and 345; 550-admission 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: 100: 560-admission to the Graduate School, Psychology in pre-scientific period and details of developmental or systematic viewpoints in 19th and 20th Centuries.

### 475 PSYCHOLOGY OF ADULTHOOD AND AGING

Prerequisites: 100 and 230. Psychological aspects of human development from adolescence to older adulthood including age-related changes in socialization, personality, intelligence, sensation, perception learning, memory and clinical applications.

#### SPECIAL TOPICS IN PSYCHOLOGY 480

(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

Prerequisite: 100. Conceptual and methodological issues in life-span developmental psychology. The approach is data-based, multidisciplinary and problem-focused.

### 488.9 HONORS PROJECT IN PSYCHOLOGY

Prerequisites: Psychology major 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

(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

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(May be repeated to a maximum of 6 credits). Prerequisites: 100 and 105 and 110 and 220 and four additional credits in psychology. On-site supervised individual placements as a psychology assistant in appropriate community and institutional/organizational settings.

#### 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:

4 credits

4 credits

4 credits

4 credits

4 credits

1-4 credits

4 credits

4 credits each

1-5 credits

2-A credits

#### 100 INTRODUCTION TO SOCIOLOGY

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, Lecture, 301 METHODS OF SOCIAL RESEARCH I 3 credits Prerequisites: 100 and 3450:145 or equivalent or permission. Lecture/aboratory course (mini-
- mum 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 3 credits

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

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 par-

ticular rankings affect individual behavior, group relations and social structures. Lecture. 321 POPULATION 3 credits An introduction to world and national population trends, related demographic and social characteristics. Topics include fertility, mortality, morbidity, migration, abortion, birth control, population

#### 323 SOCIAL CHANGE

policy in relation to societal problems. Lecture,

3 credits Prerequisite: 100 or permission. Introduction to theories and processes of social change, dimensions of change in contemporary, traditional and urban-industrial societies; projection and prediction of selected trends and forms. Lecture.

### 324 SOCIAL MOVEMENTS

Prerequisite: 100 or permission. Social movements as distinguished from other forms of collec-tive behavior; analysis of social situations which produce social movements; focus on development of social movements and their role in social change. Lecture.

#### 330 CRIMINOLOGY

3 credits 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 social 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 includ-ing organizational effectiveness, organizational design and change, job satisfaction and guality 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 relationship 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

3 credits Prerequisite: 100 or permission. Examination of process of aging from perspective of behavioral and sociological aspects. Lecture.

#### 344 THE SOCIOLOGY OF SEX ROLES 3 credits Prerequisite: 100 or permission. Examination of differentiation in roles, behaviors in women men including theory, evidence on origins and determinants of differences, on stability and change in sex roles

#### 345 FAMILY AND HEALTH 3 credits

Prerequisites: 100 or permission. Survey of interrelationships between family structure and functioning and the health care system. Includes historical perspectives as well as current conditions

#### 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.

#### SOCIOLOGICAL READINGS AND RESEARCH 397

Prerequisite: permission. Individual study of problem area of specific interest to individual student under guidance of department member. Preparation of a research paper

## 403/503 HISTORY OF SOCIOLOGICAL THOUGHT

Prerequisite: 100 or permission. Examination of major scholars in the classical sociological tradition. Lecture

### 404/504 CONTEMPORARY SOCIOLOGICAL THEORIES

Prerequisite: 403 or permission. Examination and critical evaluation of works of modern sociological theorists, emphasizing current theoretical approaches to issues of social order and social change. Lecture

### 410/510 SOCIAL STRUCTURES AND PERSONALITY

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

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 analyses 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

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 and experience, and other gender-related issues.

#### 425/525 SOCIOLOGY OF URBAN LIFE Prerequisite: 100 or permission. Emergence and development of urban society. Examination of

urban social structure from neighborhood to metropolis, the problems and prospects. Ephasis on various life styles of urban subcultures. Lecture/discussion.

### 428/528 THE VICTIM IN SOCIETY

Prerequisites: 100 or permission of instructor. Study of the nature, causes, and consequences of victimization with special focus on crime victimization.

### 429/529 PROBATION AND PAROLE

3 credits Prerequisite: 330 or 430 or permission. Analysis of how probationers and parolees are selected, supervised and then released into private life. Emphasis on current and past social research. Lecture/discussion

#### 430/530 JUVENILE DELINQUENCY

Prerequisite: 100 or permission. Analysis of social structure and process from which delinquency develops. Emphasis on current and past research. Lecture/discussion.

## 431/531 CORRECTIONS

Prerequisite: 330 or 430. Theories, belief systems, correctional practices and effectiveness as related to offender groups. Lecture/discussion/field experience

433/533 SOCIOLOGY OF DEVIANT BEHAVIOR

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.

### 440/540 SOCIOLOGY OF RELIGION

3 credits Prerequisite: 100 or permission. Study of forms of religion and their social functions with emphasis on religion in American society. Lecture.

441/541 SOCIOLOGY OF LAW 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.

## 442/542 SOCIOLOGY OF EDUCATION

Prerequisite: 100 or permission. Analysis of education from an organizational and social psychological perspective. Topics include: desegregation; busing; neighborhood schools; impact of family, peers and teachers on learning; school organization. Lecture.

## 443/543 INDUSTRIAL SOCIOLOGY

Prerequisite: six credits of sociology or industrial management. Companison of formal and informal structures in industrial organizations; analysis of work roles and status systems; communication processes; relation of work plant to community and society. Lecture.

## 444/544 SOCIAL ISSUES IN AGING

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.

## 494/594 WORKSHOP IN SOCIOLOGY

(May be repeated) Group studies of special topics in sociology. May not be used to meet departmental undergraduate or graduate major requirements. May be used for elective credit only 2-4 credits

# 495 RESEARCH INTERNSHIP

(May be repeated for credit) Prerequisites: 301, 302 and permission of a faculty supervisor.

Placement in selected community organization for supervised experience in all phases of a social research project. Student must receive permission from instructor during semester prior to errollment

#### 496 SENIOR HONORS PROJECT

1-3 credits

3 credits

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

# ANTHROPOLOGY

# 3870:

- 150 CULTURAL ANTHROPOLOGY 4 credits Introduction to study of culture; cross-cultural view of human adaptation through technology, social organization and ideology. Lecture.
- 151 EVOLUTION OF PEOPLE AND CULTURE 3 credits Biological and cultural evolution of Homosapiens; comparative study of Primates; human variation; Old World archaeology. Lecture.
- 250 INTRODUCTION TO ARCHAEOLOGY 3 credits Prerequisite: 150. Course covers brief history of archaeology as a discipline, describes methodology and presents a short sketch of worldwide prehistory.
- 3 credits 270 CULTURES OF THE WORLD Prerequisite: 150 or permission of instructor. An examination of diversity in pre-industrial cultures; the ways in which cultures differ and the major processes which produce cultural differences.
- 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.
- 356 ARCHAEOLOGY OF THE AMERICAS 3 credits Prerequisite: 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.
- 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.
- 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.
- 405/505 HISTORY AND THEORY IN ANTHROPOLOGY 3 credits Prerequisite: 150 or permission. Survey of theories and problems in social and cultural anthropology. Historical development, methods of inquiry and contemporary theoretical perspectives.
- 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 CULTURE AND MEDICINE 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.

#### 461/561 LANGUAGE AND CULTURE 3 credits Prerequisite: 150 or permission. Examination of language structure and interaction of language,

#### cognition and culture. Lecture. 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 opportunities 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.

## 1-3 credits

# College of Engineering

# GENERAL ENGINEERING

# 4100:

101 TOOLS FOR ENGINEERING 3 credits Corequisite: 3450:221. Introduction to engineering. Free hand, engineering, and CAD drawing. Introduction to computer programming, computer applications including word processing spreadsheets, data base. Introduction to engineering economics. Required for Chemical, Civil, and Electrical Engineering majors

201 ENERGY AND ENVIRONMENT 2 credits Interactions between energy production, consumption and environment. Case studies. Not for engineering, chemistry or physics majors.

#### 202 ATMOSPHERIC POLLUTION

Causes of atmospheric pollution and technical economic and social problems. Technical solutions. Case studies. Not for engineering, chemistry or physics majors.

2 credits

4 credits

4 credits

3 credits

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.

#### COOPERATIVE EDUCATION WORK PERIOD 300 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.

COOPERATIVE EDUCATION WORK PERIOD 403 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:

121 CHEMICAL ENGINEERING COMPUTATIONS 2 credits Prerequisites: 101 or permission. Computer programming language, flowcharting, introductory simulation and introductory numerical analysis.

#### CHEMICAL ENGINEERING DESIGN I 194

1 credit Prerequisites: 4100:101 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

Prerequisites: 121, 3450:221 and 3150:154. Introduction to material, energy balance calculations applied to solution of chemical problems.

#### 225 EQUILIBRIUM THERMODYNAMICS

Prerequisites: 200 and 3450:222. 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.

#### CHEMICAL ENGINEERING DESIGN II 294

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.

#### 305 MATERIALS SCIENCE

2 credits Prerequisites: 3150:133 and 3650:292 and junior standing. Structure, processing and properties of metals, ceramics and polymers. Special topics, such as composites, corrosion and wear

#### TRANSPORT PHENOMENA I 321

3 credits rerequisites: 200 and 3450:222. Constitutive equations for momentum and energy transfer Development of microscopic and macroscopic momentum and energy equations. Analogy and dimensions correlations. Problems and applications in unit operations of chemical engineering.

#### 322 TRANSPORT PHENOMENA II

Prerequisite: 321. Constitutive equations for mass transfer. Development of microscopic and macroscopic momentum, energy and mass transfer equations for binary systems. Problems and applications in unit operations of chemical engineering.

### 330 CHEMICAL REACTION ENGINEERING

3 credits Prerequisite: 225. Nonequilibrium processes including chemical reaction mechanisms, rate equations and ideal reactor design applied to homogeneous and heterogeneous systems.

FLUID AND THERMAL OPERATIONS 351 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.

- 352 TRANSPORT LABORATORY 2 credits Prerequisites: 322 and 351. Experiments in fluid, heat and mass transfer. Data collection, analysis and reporting in various formats. Relationships to theory emphasized.
- 353 MASS TRANSFER OPERATIONS 3 credits Prerequisites: 225, 351 and 322. Theory and design of staged operations including distillation, extraction, absorption. Theory and design of continuous mass transfer devices.
- 394 CHEMICAL ENGINEERING DESIGN III 1-3 credits Prerequisites: 351 and permission. Supervised individual or group design project. Develop, eval-uate 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. Commerical polymerization, materials selection and property modification, polymer processing, applied rheology and classification of polymer industry.

- 435 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 P{inch 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 ECONOMICS AND DESIGN 4 credits Prerequisites: 330, 351, 353. Economic evaluation of chemical plants including justification, profitability, capital investment and operating costs. Design of chemical process equipment
- 442 PLANT DESIGN 4 credits Prerequisite: 441. Integration of process and equipment design for a total plant including justification, site selection and plant layout. Culminates with a case study or A.I.Ch.E. Student Contest Problem
- 454 OPERATIONS LABORATORY 1 credit Prerequisites: 352, 353. Comprehensive experiments and analysis in combined heat and mass transfer, thermodynamics and reaction kinetics. Comprehensive reports.
- 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 3 credits Prerequisite: permission. Data acquisition and analysis by digital devices, digital control applications and design.

- 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 thermodynamics, 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 FUEL 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 emerg-

#### ing 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.

#### 496 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. HONORS PROJECT 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 X faculty member of the department.

#### RESEARCH PROJECT 499

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:

201 STATICS

3 credits Corequisites: 3450:222 and 3650:291. Forces, resultants, couples; equilibrium of force systems; distributed forces; centers of gravity, analysis of simple structures; moments of iner-

#### 202 INTRODUCTION TO MECHANICS OF SOLIDS 3 credits 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 3 credits 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 3 credits 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 3 credits Prerequisites: 3150:153, 3450:222, Basic principles of ecosystems, microbiology, chemical reactions, 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

### 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.

3 credits

3 credits

3 credits

3 credits

3 credits

1 credit

#### 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; beam-columns: bolted, welded connections.

#### 403 REINFORCED CONCRETE DESIGN 3 credits 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 3 credits 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

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 Corequisite: 323 or permission. Analysis of water and wastewater

#### 426/526 ENVIRONMENTAL 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 QUALITY 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.

3 credits\*

3 credits

3 credits

3 credits

3 credits

#### 431 HYDRAULIC ENGINEERING

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.

## 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

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. 448 HYDRAULICS LABORATORY 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 450 URBAN PLANNING 2 credits

#### 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

3 credits 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

### 452 STRUCTURAL VIBRATIONS AND EARTHQUAKES

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. Elastic-plastic 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

rerequisite: 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 3 credits

## 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

#### 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 pavement mixes and of surface treatments. Laboratory preparation of specimens and determination 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.

#### 471 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 manage ment. Techniques of various engineering construction operations including blasting, tunneling, concrete framework and dewatering.

changes to 4 credits Spring Semester 1998

#### 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

2 credits 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

Prerequisite: 3470:261 and senior standing. Probability concepts in civil engineering. Risk analysis and reliability based design.

## 481 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.
- 490 SENIOR DESIGN

3 credits Prerequisites: senior standing. A civil engineering design project that emphasizes interdisciplinary teamwork to solve a substantial, currently relevant problem.

#### HONORS PROJECT 497

(May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. X Individual creative project or design relevant to civil engineering, supervised by faculty member of the department.

# ELECTRICAL ENGINEERING 4400:

#### 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

#### 232 CIRCUITS I

Prerequisite: 231; corequisite: 3450:235. Network theorems, Fourier methods, transfer functions. Laplace and Fourier transforms and their use in analyzing dynamic operation of circuits.

#### 243 SIGNAL ANALYSIS

Prerequisite: 231, Corequisite: 3450:235, Basic concepts of convolution, impulse and step responses, Laplace transforms, Fourier series, Fourier transforms, Bode diagrams, difference and differential equations.

### 320 BASIC ELECTRICAL ENGINEERING

Prerequisite: junior standing in engineering; corequisite: 3450:235. Covers fundamental aspects of electrical circuits, electronics and electrical machinery. Not open to an electrical engineering major.

#### 333 DISCRETE-TIME SYSTEMS

Prerequisite: 232, 243, 4450:208. Introduction to the analysis and design of discrete-time linear systems. System simulations, classical solutions, Z-transform solutions, convolution techniques, matrices, state-variable methods, and digital filters are included.

## 334 ACTIVE CIRCUITS

Prerequisite: 333. Applications of operational amplifiers including bilinear transfer functions, scaling, cascade design, biguad circuits, lowpass, high pass, bandpass-filters, Butterworth and Chebyshev response, sensitivity, delay filters, frequency transformations, ladder design, simulated element design, leapfrog simulation and switched-capacitors.

### 340 ELECTRIC CIRCUITS LABORATORY

Prerequisite: 231. To develop practical skills in electronic circuits. Experiments will involve analysis and measurement of circuits which will illustrate circuit theory concepts.

## 344 INSTRUMENTATION

Prerequisites: 340, 362. Analysis and characteristics of transducers, indicating instruments and recorders used in electrical measurements.

## 353 ELECTROMAGNETICS |

Prerequisite: 231, 3450:223 or permission. Vector analysis. Electrostatics: electrostatic field, scalar potential, dielectrics, boundary-value problems. Magnetostatics: magnetic circuits. Max well's equations: Faraday's law, time-harmonic fields. Introduction to plane waves.

#### 354 ELECTROMAGNETICS II

3 credits 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.

#### 360 PHYSICAL ELECTRONICS

3 credits Prerequisite: 232. Corequisite: 363. PN junction, diffusion, tunneling, FET and BJT device physics, equivalent circuits for electronic devices, time and frequency analysis, biasing and logic families.

## 361 ELECTRONIC DESIGN

4 credits Prerequisites: 333,360. Power amplification, feedback, oscillators, linear integrated circuits, modulation and demodulation circuits.

## 363 SWITCHING AND LOGIC

Prerequisites: 232, 340. Analysis of computer circuits. Introduction to use of Boolean algebra and mapping techniques in analyzing switching circuits. Sequential circuits.

365 MICROPROCESSOR SYSTEM 3 credits Prerequisite: 363. Consideration of microcomputer hardware and software components. Microprocessor and peripheral devices. Instructions set of selected microprocessor. Introduction to microcomputer software. 371 CONTROL SYSTEMS I 4 credits Prerequisite: 333. Introduction to servomechanisms and feedback. Modeling and response of feedback control systems. Stability of linear systems. Experiments include analog simulation and basic servomechanism

#### 380 ILLUMINATION

3 credits

2 credits

1-3 credits

1-3 credits

3 credits

4 credits

3 credits

3 credits

1 credit

3 credits

4 credits

4 credits

2 credits Fundamentals of illumination and principles underlying specifications and design for adequate electrical lighting.

#### 381 ENERGY CONVERSION 3 credits

Prerequisites: 231 and 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

2 credits Prerequisite: 381. Theoretical background and practical skills in machines measurements. Steady and transient states in transformers and machines recording and analysis. External charactenistics of sources.

## 387 ADVANCED MACHINERY

3 credits Prerequisite: 386. d-q transformation. Reactance of synchronous machines. Parallel operation of transformers. Synchronous-induction motors. Machine saturation and harmonics

1-3 credits

3 credits

3 credits

#### 391 PROBLEMS (May be taken more than once) Prerequisite: permission of department head. Select compre-

hensive problems, supervised discussions and computation periods. 421/521 ENGINEERING ECONOMY 2-3 credits Prerequisites: 3250:244 and senior standing in engineering. Presents engineering economics as

# distinguished from classical economic theory.

## 445 ANALOG COMMUNICATION Prerequisites: 243, 333, 362. Introduction to analog communication systems; amplitude, fre-

quency, phase modulation; modulators, demodulators; noise and signal-to-noise ratio calculation; sampling; pulse modulation.

#### 447 RANDOM SIGNALS

3 credits Prerequisite: 333. 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

3 credits Prerequisite: 445. Introduction to digital communication theory and systems; coding of analog and digital information; digital modulation techniques. Introduction to information theory

#### 451 ELECTROMAGNETIC COMPATIBILITY 3 credits Prerequisite: 360. Introduction to electromagnetics, electromagnetic compatibility, crosstalk and effects on computers, communication lines and systems.

452 INTRODUCTION TO LASERS 3 credits Prerequisites: 333, 353. Introduction to basic concepts of maser (laser) action; emission processes and their roles in laser action; types of lasers; presentation of generalized operating criteria.

#### 453/553 ANTENNA THEORY

3 credits 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 guides, microwave components, techniques and systems.

### 461 PHYSICS OF ELECTRONIC DEVICES

Prerequisites: 3650:301, 353, 362. Physics of semiconductors. Band theory, energy distribution and electron transport. P-n junctions. BJT and FET devices. Electron emission and ballistics, gaseous discharge, dielectric and magnetic materials. Device modeling,

#### 464 PULSE ELECTRONICS

#### 4 credits Prerequisites: 333, 362. Waveshaping circuits, nonsinusoidal waveform generation and relaxation circuits. Pulse transformers. Application of pulse and switching circuits.

#### 465/565 PROGRAMMABLE LOGIC 3 credits Prerequisite: 363. Digital design with programmable devices. PLD and FPGA architectures. Logic design and technology mapping tools.

470 MICROPROCESSOR INTERFACING 3 credits Prerequisites: 362, 363. Microprocessor structure, Bus Interface. Digital controller devices and their relationship to both the microcomputer and physical environment.

#### 472/572 CONTROL SYSTEMS II

4 credits 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.

#### 480/580 SYMMETRICAL COMPONENTS 3 credits

Prerequisite: 381. Per unit method as applied to power system calculations. Fundamental principles of symmetrical components as applied to analysis of electrical circuits and machines.

481 MODERN POWER SYSTEMS 3 credits Prerequisite: 381. Introduction to electricity utility load flow, faulty analysis, stability, surge protection and relaving.

#### INDUSTRIAL POWER SYSTEMS 3 credits

Prerequisite: 381. Introduction to industrial power systems. Local generation, power factor correction, conductor selection code requirements, coordination of protective devices.

#### 483/583 POWER ELECTRONICS I

3 credits Steady-state analysis and design of power electronic converters: AC/DC converters (rectifiers), DC/DC converters, DC/AC PW/M and resonant converters, AC/AC converters and cycloconverters

## 484/584 POWER ELECTRONICS LABORATORY AND DESIGN PROJECT

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.

## 485/585 ELECTRIC MOTOR DRIVES

Prerequisite: 381. Application of electric machines, choice of motor for particular drive. Application of power semiconductor circuits in electric machinery.

#### HONORS PROJECT

4

(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 member of the department.

#### 498/598 TOPICS IN ELECTRICAL ENGINEERING

(May be taken more than once) Prerequisite: permission of department head. Special topics in electrical engineering

# COMPUTER ENGINEERING

# 4450:

101 INTRODUCTION TO ELECTRICAL ENGINEERING AND 1 credit COMPUTER ENGINEERING

Orientation to degree programs and careers in computer engineering, electrical engineering and computer science. For declared majors in computer engineering.

208 PROGRAMMING FOR ENGINEERS 3 credits Prerequisite: 4100:101 or permission. Introduction to programming. Environment and tools. C programming language. Machine level data forms and organization.

#### 370 VLSI DESIGN

Use of VSLI design environments in the development of large digital systems. Schematic capture, simulation and verification. Integration of standard building blocks. Design project.

- 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 pro-cessing. Object-oriented packaging in C++.
- 420/520 OBJECT ORIENTED DESIGN 3 credits Prerequisites: 208 or equivalent. Investigation of object-oriented design paradigm and the design

implementation with the object-oriented programming language C++.

## 432 SYSTEM SIMULATION

Prerequisite: 410. Simulation of continuous systems on a digital computer. Methods and tools for linear, nonlinear, and chaotic systems.

441 EXPERT SYSTEMS DESIGN AND DEVELOPMENT 3 credits Prerequisite: Senior standing or permission. Introduction to the design and development of expert systems

442 KNOWLEDGE ENGINEERING 3 credits Prerequisite: 441 or equivalent. Study of knowledge acquisition and expert system project management.

- 443 FRAME-BASED 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 sys-

#### 470/570 INTEGRATED SYSTEM DESIGN

Prerequisite for 470: 4400:465. Prerequisite for 570: 4400:565. Introduction to computer structures, design methods and development tools for VLSI systems. nMOS devices and fabrication. Processing and control design. Layout methods and tools. Design systems.

#### 480 ADVANCED PROCESSOR DESIGN

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 |

tems.

Corequisite: 4400:470 Design phase of an interdisciplinary engineering design project. Starting with preliminary requirements, each student team develops formal requirements, proposal and desian.

#### 496 DESIGN PROJECT II

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

1-2 credits (May be taken more than once) Prerequisite: permission of department chair. Special topics in computer engineering.

# MECHANICAL ENGINEERING 4600:

## 165 TOOLS FOR MECHANICAL ENGINEERING

2 credits

3 credits

1-3 credits

1-2 credits

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits 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

Prerequisite: 4300:201. Kinematics and kinetics of particles and rigid bodies. Principles of work, energy, momentum and impulse.

3 credits

4 credits

# 300 THERMODYNAMICS I

Prerequisites: 3450:221 and 3650:291. Basic concepts of thermodynamics. The pure substance, the system and first and second laws of thermodynamics. Entropy, availability, powe cycles

#### 301 THERMODYNAMICS II 3 credits Prerequisites: 300 and 310. Thermodynamics of state, gas mixtures and gas-vapor mixtures. Combustion. Thermodynamics of gas flow.

305 THERMAL SCIENCE 2 credits Prerequisites: 3450:222 and 3650:291. 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. 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: 165, 300, 310, or 3460:201, 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 Prerequisites: 165, 4300:202. 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 Prerequisite: 336. Application of stress analysis to design of fasteners, welds, springs, ball bearings and gears. Introduction to journal bearings and lubrication. Component design projects.
- 340 SYSTEMS DYNAMICS AND RESPONSE 3 credits Prerequisites: 203, 3450:235. 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: 3450:235. Numerical methods of solution of mechanical engineering problems.
- 380 MECHANICAL METALLURGY 2 credits Prerequisite: 336. 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. 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 Prerequisites: 400, 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, 315. Thermodynamics of gas mixtures. Design and selection of air conditioning equipment. Control of gas mixtures, heating, cooling and humidity.
- 411/511 COMPRESSIBLE FLUID MECHANICS 3 credits Prerequisites: 301, 310. 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 equivalent or permission of instructor. Introduction to basic aerodynamics, airplane performance, stability and control, astronautics and propulsion. Design considerations are emphasized.

- 413/513 INTRODUCTION TO AERODYNAMICS 3 credits Introduction of aerodynamic concepts; includes conformal transformations, theory of thin airfoils, 2-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 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, 315. Topics from fields of internal combustion engines, cycle analysis, modern conversion devices
- 416/516 HEAT TRANSFER PROCESSES 3 credits Prerequisite: 315. 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: 336. Introduction to matrix and finite element methods in mechanical engineering. Stiffness and flexibility formulations in both solid mechanics and thermal sciences. Basic finite

element methods and its implementation. Application of existing software package. Pre- and post-processing using interactive computer graphics. 3 credits

# 422/522 EXPERIMENTAL STRESS ANALYSIS |

Prerequisite: 336 or 4300:202. Experimental methods of determining stress or strain: brittle lacquer, strain gages, photoelasticity.

#### 430/530 MACHINE DYNAMICS

Prerequisite: 321. Static and dynamic forces in machines, products of inertia, dynamic equiva lence, flywheels. Balancing of rotating, reciprocating, cyclic plane motion. Computer simulation of transient mechanism dynamics, other topics in advanced dynamics.

#### 431/531 FUNDAMENTALS OF MECHANICAL VIBRATIONS

Prerequisites: 203 and 3450:235. Undamped and forced vibrations of systems having one or two degrees of freedom.

#### 432/532 VEHICLE DYNAMICS

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

3 credits Prerequisites: 315, 431, 340. Methods of feedback control design such as minimized error, rootlocus, frequency domain. Compensation techniques. Multivariable and nonlinear design methods and computer-aided control design.

#### 442/542 INDUSTRIAL AUTOMATIC CONTROL

3 credits Prerequisite: 440 or equivalent. 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, furnaces, process heaters.

## 443/543 OPTIMIZATION METHODS IN MECHANICAL ENGINEERING

Prerequisite: 360. 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, 440 or equivalent. Robot design and control. Kinematic transformations, 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, 360, or permission of instructor. Numerical modeling of fluid/thermal systerns; 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; corequisite: 400. Design process. Creativity and inventiveness. Tools of decision making, engineering economics, reliability, optimization. Case studies.
- DESIGN OF MECHANICAL SYSTEMS 2 credits Prerequisites: 321, 431, 460. Detailed mechanical design project and case studies.

#### 462/562 PRESSURE VESSEL DESIGN

- Prerequisite: 336 or 4300:202. Introduction to modern pressure vessel technology. Topics include basic structural considerations, materials and their environment and design- construction features
- 463/563 COMPUTER AIDED DESIGN AND MANUFACTURING 3 credits
- 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. 2 credits

#### 483 MECHANICAL ENGINEERING MEASUREMENTS LABORATORY

Prerequisites; 203, 300, 310, 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: 483; corequisites: 315 and 431. Laboratory experiments in area of dynamics, vibrations, thermodynamics, fluids, heat transfer and controls.

#### 486 SPECIAL TOPICS

Prerequisite: permission. Brief description of current content to be announced in schedule of classes.

#### HONORS PROJECT 497

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.

# EXPERIMENTAL INVESTIGATION IN

#### MECHANICAL ENGINEERING

Individual independent laboratory investigations in areas relevant to mechanical engineering. Student suggests a project and makes appropriate arrangements with faculty for supervision.

# **BIOMEDICAL ENGINEERING**

# 4800:

3 credits

2 credits

1-3 credits

1-2 credits

INTRODUCTION TO BIOMEDICAL ENGINEERING RESEARCH 3 credits Application of engineering principles to local area medical research. Includes biomaterials, orthopedics, artificial organs, biostereometrics, biometrics, biological signal and image analysis, biomechanics and computers in medicine

# CONSTRUCTION TECHNOLOGY

# 4980:

- 351 CONSTRUCTION QUALITY CONTROL 2 credits Prerequisites: 2980:237, 238 or permission. Overview of quality control concepts and tech niques as related to the construction industry including the necessary statistical tools; exposes students to civil, mechanical and electrical inspection requirements.
- 352 FIELD MANAGEMENT 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: 2980:234. Soil mechanics and soils exploration as related to construction. Foun dation construction methods and practice in the interest of safety and suitable economy.
- 355 COMPUTER APPLICATIONS IN CONSTRUCTION 3 credits 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, office 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.

- 361 CONSTRUCTION FORMWORK 3 credits Prerequisite: 2980:234 or permission. Introduction to design and construction of field structures. Emphasis on design and construction of formwork and temporary wood structures
- 453 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 materials

## 465 HEAVY CONSTRUCTION METHODS

Prerequisite: 2980:232 or 4300:472. Management techniques in planning, estimating and directing heavy construction operations.

3 credits

1-3 credits

3 credits

466 HYDRAULICS 3 credits Prerequisite: 2020:233. 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.

#### 467 SPECIAL PROJECTS

Prerequisites: senior standing and permission of instructor. Directed individual or group research or study in student's field of interest. Topic subject to approval by adviser. ŝ

#### 468 CONSTRUCTION MANAGEMENT

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.

### 470 ADVANCED CONSTRUCTION GRAPHICS

3 credits This course focuses on construction graphics through microbased CAD. Topics include microcomputer systems, digitizers, plotters, printers, menus, keyboard and mouse input, introduction and advanced techniques

# **College** of Education

# **COOPERATIVE EDUCATION**

# 5000:

301 COOPERATIVE EDUCATION 0 credits (May be repeated) For cooperative education students only. Work experience in business. industry or governmental agency. Comprehensive performance evaluation and written report required

# TEACHER EDUCATION CORE PROGRAM 5050:

## 210 CHARACTERISTICS OF LEARNERS

3 credits Prerequisite: Completion of all College of Education 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.)

3 credits

3 credits

3 credits

3 credits

1 credit

1-3 credits

# 211 TEACHING AND LEARNING STRATEGIES

Prerequisite: Completion of all College of Education admission requirements; Corequisite: 210. From course content and activities, students will recognize, select, and practice various instructional models. Students will acquire and apply appropriate learning and motivational strategies. (10 hours of field experience included.)

#### 310 INSTRUCTIONAL DESIGN

Prerequisite: 210, 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

Prerequisites: 210, 211; Corequisite: 310. Examines existing and developing media, technologi cal, 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: 210, 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: 210, 211. Content regarding effective organization of the classroom as well as procedures and models for mediation of student behaviors will be presented.

**410 PROFESSIONAL ISSUES IN EDUCATION** 3 credits Prereouisites: 310, 311, 320, 330, Coursework applies social and philosophical foundations of education to current and historical issues in education with attention to roles and responsibilities of contemporary teachers.

# EDUCATIONAL FOUNDATIONS AND LEADERSHIP

# 5100:

## 150 DEMOCRACY AND EDUCATION

Based on an interdisciplinary inquiry, this course examines varied theories and practices of democratic education.

## 211 FUNDAMENTAL EDUCATIONAL COMPUTER SKILLS

Elective Course: Fundamental Computer Skills for education majors with little or no computer experience. Includes word processing, databases, graphics and communications. Cannot substitute for any required course.

### 258 SMALL GROUP INSTRUCTION

(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.

## 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.

3 credits

3 credits

1-3 credits

#### 414/514 ORGANIZING AND SUPERVISING EDUCATIONAL MEDIA PROGRAMS

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

Examines use of wordprocessing, spread sheets, databases, graphics, telecommunications and authoring software in both educational and business settings and evaluates instructional and applications software.

#### 430 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.

#### 1-3 credits each 490.1.2/590.1.2 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 course designed as in-service upgrading programs.

- 497 INDEPENDENT STUDY
- (May be repeated for a total of six credits) Prerequisites: permission of department head and Š 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: 5050.210. 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 ELEMENTARY FIELD EXPERIENCE I 2 credits Prerequisite: Student must be enrolled in or have completed 286 and 141. Planned field experience emphasizing field settings where the student works with small groups of children in an urban elementary classroom
- 245 UNDERSTANDING LANGUAGE LITERACY 3 credits Prerequisite: 5050:210. Children's language literacy learning is explored through an integrated instructional model focusing upon reading, writing, speaking, and listening development which incorporates use of children's literature
- 250 DEVELOPING PROCESSES OF INVESTIGATION 3 credits Prerequisites: 5050:210, 211. This course will enable students to identify and acquires those investigative and discovery processes and skills that are common in mathematics, science, and social studies.
- 286 CHILDREN'S LITERATURE 3 credits (15 clinical hours) Survey of materials for children in prose, poetry and illustrations from early historical periods to modern types; criteria of selection and methods of presentation critically examined.
- 300 PRE-KINDERGARTEN PARTICIPATION II 1 credit (30 field hours) Prerequisite: 200, 5610:450. 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 3 credits (10 clinical hours) CHILDHOOD EDUCATION Prerequisite: 7400:265. In-depth examination of issues impacting on children from birth to

# kindergarten, their families and the early childhood three educational process.

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.

i <i>credits</i> lign lan- liate lev-	436/	536 GEOMETRY AND MEASUREMENT IN ELEME SCHOOL MATHEMATICS Prerequisite: 336. Trends in geometry and measur		credits
		Procedures for development of important geometric of		
<i>hours).</i> ive suc- student	<b>43</b> 7/	537 STRUCTURE OF THE NUMBER SYSTEM IN ELEMENTARY SCHOOL MATHEMATICS Prerequisite: 336. Applied and advanced topics in ma Thorough investigation of number system presently b	thematics education in elementary s	credits school.
<i>l hours)</i> kinder-	438/	538 MATERIALS AND LABORATORY TECHNIQUE ELEMENTARY SCHOOL MATHEMATICS Prerequisite: 336. Applied mathematics. Construction	is in 3 d	credits
<i>t hours)</i> nphasis		Prerequisite: 330. Applied mathematics. Construction Procedures for development of important math tory approach.		
	439/	539 PROPERTIES OF NUMBERS IN ELEMENTARY	30	credits
<i>credits</i> ent of a rial.		SCHOOL MATHEMATICS Prerequisite: 336. Investigation of those number p arithmetic work. Procedures for development of im tional skills.		
<i>credits</i> nentary n, devel- d practi-	440/	540 CONTEMPORARY ELEMENTARY SCHOOL So Prerequisite: 333. Contemporary elementary science cedure developed and implemented in University class	programs critically analyzed and the	oredits air pro-
credits levelop-	445	EVALUATING LANGUAGE LITERACY This course explores the assessment of students' pro mal instruments identifying progress in reading, writing	gress in language literacy. Formal and	
credits studies	450	INTEGRATED CURRICULUM APPLICATION IN THE ELEMENTARY SCHOOL Focus on the design and presentation of integrated k sion maker in delivening integrated, multidisciplinary ins	assons and on becoming an effective	
credits iction in	480	SPECIAL TOPICS: ELEMENTARY EDUCATION (May be repeated with a change in topic) Prerequisit special topics of critical, contemporary concern in prof	e: permission of instructor. Group st	cr <i>edits</i> tudy of
credits egrated	490,	1,2,3/590,1,2,3 WORKSHOP Elective workshop for elementary education major teaching skills. Emphasizes demonstrations of teachin teaching devices.		ent of
<i>credits</i> cy from ung chil-	494/	594 EDUCATIONAL INSTITUTES Special courses designed as in-service upgrading proport of national foundations.		cr <i>edits</i> 10 sup-
hours)	495	STUDENT TEACHING	4-8 credits (322 field	hours)

Prerequisites: senior standing and 300. 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 class-7 room experiencesone primary level and one intermediate level.
- 497 INDEPENDENT STUDY
- 1-3 credits Prerequisites: permission of adviser and department head. Specific area of curriculum investiga-Ŷ tion pertinent to elementary education as determined by student's academic needs.

# READING

# 5250:

1-3 credits

# 341 LABORATORY PRACTICUM IN READING

- Prerequisite: 5200:339. Laboratory experience with classroom, small groups and individual situations. A student diagnoses, implements procedures and follows prescribed reading improvement practices.
- 411/511 MATERIALS AND ORGANIZATIONS FOR READING INSTRUCTION 3 credits Prerequisite: 5200:339. Professional problems of selection and evaluation of reading materials and classroom organizations explored.

# 440/540 DEVELOPMENTAL READING IN THE CONTENT

AREAS ELEMENTARY 3 credits Prerequisite: 5200:337 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

## 441/541 LANGUAGE AND ITS RELATIONSHIP TO READING IN

THE ELEMENTARY SCHOOL 3 credits Prerequisite: 5200:337 or permission of the instructor. An overview of the linguistic field in the teeching of reading in the elementary school. A discussion of major linguistic principles for classroom application in grades K-8

#### 442/542 TEACHING READING TO CULTURALLY DIVERSE LEARNERS 3 credits

Prerequisite: 5200:337 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

#### 480 SPECIAL TOPICS: ELEMENTARY READING INSTRUCTION 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.

321 INSTRUCTIONAL TECHNIQUES: MODERN LANGUAGES - K-8 3 Focus on theories of language acquisition, models of instruction suited to teaching fore guages and cultures in the elementary school (K-8), and strategies that promote appropr els of language proficiency and competency for young learners.

325 ELEMENTARY FIELD EXPERIENCE II 2 credits (50 field Prerequisite: Student must be enrolled in or have completed 338, 333. Student must ha cessfully completed 225. Planned field experience emphasizing field settings where the works with large groups of children in a suburban elementary classroom.

- 330 KINDERGARTEN POLICIES, ISSUES, AND TRENDS 4 credits (20 clinical/field Prerequisite: 7400:265. In-depth examination of policies, issues, and trends influencing garten children, their families, and the kindergarten educational process.
- 331 KINDERGARTEN METHODS AND MATERIAL 4 credits (20 clinical/field Prerequisites: 330 and 7400:265. Scope and sequence of kindergarten curricula, with er on developmentally appropriate methods and materials.

333 SCIENCE FOR THE ELEMENTARY GRADES Prerequisite: 5100:250. For a prospective elementary school science teacher. Developm point of view toward science teaching and study of methods of presenting science mate

334 TEACHING ART IN THE ELEMENTARY SCHOOL Prerequisite: Admission to Teacher Education Program, Art K-12. Visual arts in elen schools. Art education concepts with studio orientation including history of art education opmental stages, curriculum and organization, methods, evaluation and research, and cal participation.

- 336 TEACHING OF ELEMENTARY SCHOOL MATHEMATICS I Prerequisite: 5100:250. Trends in instruction in elementary schools. Procedures for d ment of mathematical concepts and skills.
- 338 THE TEACHING OF SOCIAL STUDIES IN THE ELEMENTARY SCHOOL Prerequisite: 5050:210, 3350:100, one History requirement from General Studies. Social in elementary school and varied means of implementing program.
- 342 TEACHING ELEMENTARY SCHOOL MATHEMATICS Prerequisite: General college mathematics requirement. Trends in mathematics instru elementary schools. Procedures for the development of mathematics concepts and skills

345 TEACHING LANGUAGE LITERACY Prerequisite: 5200:245. The teaching of language literacy is explored through an inte instructional model. Strategies for teaching language literacy.

355 LANGUAGE AND LITERACY IN EARLY CHILDHOOD Prerequisite: 5200:310 and 7400:265. A framework for the development of litera birth to age 8. Factors influencing emerging literacy will be explored. Emphasis on you dren's literature

360 TEACHING IN THE NURSERY CENTER 2 credits (10 clinical hour Prerequisite: 310, 7400:280, 270, or permission of insructor; corequisite: 370. Assists students with the integration of knowledge, skills, attitudes and values learned in the pre-kindergarten program as they participate with young children.

365 COMPREHENSIVE MUSICIANSHIP FOR 3 credits (25 clinical hours) THE ELEMENTARY CLASSROOM TEACHER

Designed to afford a prospective classroom teacher the opportunity to develop individual musical skills in creativity, performance and listening as means of enhancing teaching through use of music.

370 NURSERY CENTER LABORATORY

2 credits (53 clinical hours) Prerequisites: 310, 7400:280, 270 or permission of instructor. Corequisite: 360, Lab accompanies 360 and is an integrated practical experience in the University Nursery Center under the direction of experienced teachers.

# 395 FIELD EXPERIENCE

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.

415/515 MICROCOMPUTER APPLICATIONS FOR ELEMENTARY TEACHERS

Prerequisite: 5050:311 or Graduate status. Focus is upon developing student competence in the use of elementary education computer technology to enhance both the teacher's personal and professional productivity

#### 425 ELEMENTARY FIELD EXPERIENCE III 2 credits (50 field hours).

Prerequisites: Student must be enrolled in or have completed 335, 336, 337. Student must have completed 325. Planned field experience emphasizing field settings where the teacher education student works with entire classes of children in an elementary or middle school setting.

430 SENIOR HONORS PROJECT: ELEMENTARY 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 ACTIVITIES TO INDIVIDUALIZE SOCIAL STUDIES

2 credits 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.

3 credits

# SECONDARY EDUCATION

# 5300:

311 INSTRUCTIONAL TECHNIQUES IN 5 credits (30 clinical hours, 20 field hours) SECONDARY EDUCATION Prerequisites: 5050:210, 211, 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.

- 316 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
- INSTRUCTIONAL TECHNIQUES: MODERN LANGUAGES SECONDARY 317 3 credits Prerequisites: 5050:210, 211, 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
- CONTENT READING IN SECONDARY SCHOOLS 3 credits (30 clinical hours) 325 Instructional principles and practices for helping secondary school youth and adults learn subject matter through application of reading and study skills.

TEACHING OF ADOLESCENT LITERATURE 330 3 credits Prerequisite: permission of adviser. Student develops skills for selection of literature that is well suited for secondary student. Student develops, uses and experiences methods for teaching adolescent literature in secondary schools.

- 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. FIELD EXPERIENCE 1-3 credits

- Prerequisite: upper-college standing. Supervised work with youngsters, individually and in groups in school and/or community settings.
- 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 3 credits IN ECONOMIC EDUCATION

Economic education concepts appropriate for grade levels K-12 and adult education courses. Economic education materials developed to teach the concepts utilized.

#### 445/545 COMPUTER APPLICATIONS FOR SECONDARY TEACHERS

Prerequisite: senior status, 5050:311. Discuss strategies and rationale for effectively implementing computers and other technology in instruction.

3 credits

3 credits

1-4 credits

1-4 credits

8-11 credits

475/575 VOCATIONAL BUSINESS EDUCATION

Prerequisite: senior status or permission. Principles of program construction, organization, imple mentation, evaluation, improvement, and development of program guides for both intensive and cooperative vocational business education.

480 SPECIAL TOPICS: SECONDARY EDUCATION

(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 1-3 credits each Individual work under staff guidance on curriculum problems, utilization of community resources, planning of curriculum units.

494/594 EDUCATIONAL INSTITUTES

Special courses designed as in-service upgrading programs, frequently provided with the support of national foundations.

#### 495 STUDENT TEACHING

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 solving, and commitment to life-long learning.

# **TECHNICAL AND VOCATIONAL 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 home economics in secondary schools. Emphasis on methodology, techniques, development of vocational concepts, utilization of audio-visual materials, evaluation procedures.

#### 395 FIELD EXPERIENCE

Prerequisite: upper-college standing. Supervised work with youngsters, individually and in groups in educational institutions, training and/or community settings.

1-3 credits

1-3 credits

#### 400/500 THE POSTSECONDARY LEARNER 3 credits

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. 403 TECHNICAL EDUCATION PRACTICUM SEMINAR 3 credits

- Prerequisites: permission of advisor; 400, 405, or 415, 420, 430, and 435 with a 2.5 GPA or better. Corequisite: 495, micro teaching and portfolio development.
- 405/505 OCCUPATIONAL 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.
- 410/510 THE TWO-YEAR COLLEGE 3 credits Designed to introduce student to nature, purpose and philosophy of the two-year college. Includes examination of types of institutions offering two-year programs.
- 415/515 TRAINING IN BUSINESS AND INDUSTRY 3 credits Examine the role and mission of the training function in the modern industrial setting. Foundation for students interested in industrial trainer or training supervision positions.
- 420 TECHNOLOGIES AND MEDIA FOR TECHNICAL INSTRUCTION 3 credits Experiences in using, developing, and evaluating instructioonal technologies and media used for technical instruction.
- 2 credits 430/530 SYSTEMATIC CURRICULUM DESIGN FOR TECHNICAL INSTRUCTION Prerequisite: 415 or 405 and 420, admission into program, or instructor permission. Determining the curriculum fo ther laboratory and classroom, and then sequencing the content.
- 431/531 CURRICULUM DEVELOPMENT LABORATORY 1 credit Prerequisite: Admission to Technical Education Program. Corequisite: 430
- 435/535 INSTRUCTIONAL TECHNIQUES IN TECHNICAL EDUCATION 4 credits Prerequisites: 400. 405 or 415, 420, 430 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.
- 440/661 LIFE-SPAN AND COMMUNITY EDUCATION 2 credits Designed for a person engaged in providing educational services in the community. Includes examination of community education concepts and roles of various personnel and agencies.
- 441/541 EDUCATIONAL GERONTOLOGY SEMINAR 3 credits Designed for person practicing in field of gerontology or preparing for a specialization in educational gerontology, including person responsible for development and implementation of courses, seminars, occupational training programs and workshops for older people.
- 451/551 HOME ECONOMICS JOB TRAINING 3 credits Prerequisite: senior standing or permission of instructor. Concept development in vocational home economics. Job training, program development, operational procedures, skill and knowledge identification, training profiles, job description and analysis. Individualized study guides. Inschool and on-the-job observations.

3 credits

- 480 SPECIAL TOPICS: VOCATIONAL 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.
- 490.1.2/590.1.2 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 courses designed as in-service upgrading programs, frequently provided with the support of national foundations.
- 495 TECHNICAL EDUCATION PRACTICUM 1-4 credits
- Prerequisites: permission of advisor and practicum supervisor; completion of all other technical education required courses with a 2.5 GPA or better. Directed teaching under supervision of directing teacher and University supervisor.

#### INDEPENDENT STUDY 497

467 FIELD EXPERIENCE

Prerequisites: permission of adviser and supervisor of independent study. Area of study determined by student's need.

# PHYSICAL EDUCATION

# 5540:

## 120-83 PHYSICAL EDUCATION

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).\*\*

120	ARCHERY	145	SQUASH RACQUETS	1
121	BADMINTON	146	SWIMMING (beginning)	
122	BASKETBALL	147	SWIMMING (intermediate)	
123	BOWLING	148	SWIMMING (advanced)	1
124	CANOEING	149	TEAM HANDBALL	
125	DIVING	150	TENNIS (beginning)	
126	FITNESS AND WELLNESS#	151	VOLLEYBALL	1
127 128	GOLF GYMNASTICS	152	WATER POLO	
120	(apparatus)	153	WATER SAFETY‡	
129	GYMNASTICS	154	WRESTLING	
	(tumbling)	155	BASIC KAYAKING‡	
130	HANDBALL	170	VARSITY BASEBALL	1
131	INDOOR SOCCER	171	VARSITY BASKETBALL	
132	KARATE‡	172	VARSITY CROSS COUNTRY	
133	LIFEGUARD TRAINING‡	173	VARSITY FOOTBALL	:
134	MODERN DANCE	174	VARSITY GOLF	
135	RACQUETBALL	175	VARSITY SOCCER	
136	RUGBY	176	VARSITY SOFTBALL	'
137	SAILING	177	VARSITY SWIMMING	
138	SCUBA	178	VARSITY TENNIS	:
139	SELF DEFENSE‡	17 <del>9</del>	VARSITY TRACK	
140	SKIING (cross country)	180	VARSITY WRESTLING	
141	SKIING (downhill)	181	VARSITY VOLLEYBALL	
142	SOCCER	182	VARSITY RIFLERY	
143	SOCIAL DANCE	183	VARSITY CHEERLEADING	

190 SPECIAL TOPICS: GENERAL EDUCATION PHYSICAL EDUCATION .5-2 credits Weight training, self defense for the blind, water safety instruction, beginning yoga, tai chi, bil-

liards, intermediate and advanced bowling, intermediate and advanced golf, advanced self

# PHYSICAL EDUCATION

144 SQUARE AND FOLK DANCE

# 5550:

- 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 ELEMENTARY 2 credits (30 clinical hours) SCHOOL CHILDREN
- For a physical education majors only. Participation in play activities commonly used in 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
- ner week CONCEPTS OF GAMES AND PLAY 2 credits (10 clinical hours) 195 Concept analysis of games and play and application of these concepts to the teaching/learning
- process in physical education. Two hours lecture. 3 credits (8 clinical hours) 201 KINESIOLOGY

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.

\*\* Varsity sports are one credit each

‡ One credit each. Two periods each week

- 202 DIAGNOSIS OF MOTOR SKILLS 2 credits (30 clinical hours) Prerequisite: 5550:201. This course introduces physical education majors to the sciences of diagnosing motor skills. One hour lecture, two hours lab.
- 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 relative 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.
- 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.

- 240 CARE AND PREVENTION OF ATHLETIC INJURIES 3 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.
- 245 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\* 2 credits Analysis of physiological effects of exercise on elderly. Exercise programs adaptable for use by persons working with elderly. Two 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.
- 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) TENNIS AND VOLLEYBALL 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\* 1 credit (20 clinical hours) 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\* 1 credit (20 clinical hours) Theory, techniques and organizational procedures for coaching of basketball. Two class periods per week
- 313 THEORY AND TECHNIQUES OF BASEBALL/SOFTBALL\* 1 credit (20 clinical hours) Theory, techniques and organizational procedures for coaching of baseball and softball. Two class periods per week
- 320 THEORY AND TECHNIQUES OF VOLLEYBALL\* 1 credit (20 clinical hours) 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 week
- 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, mythmic 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) FLEMENTARY SCHOOL CHILDREN\*

Prerequisites: 130, 193, 235, and 245. Course focuses on use of fundamental motor skill analysis to structure movement lesson planning and implementation for school settings. One hour lecture, two hours lab.

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

\* Students must be in the College of Education to take 300/400 level courses.

#### 345 INSTRUCTIONAL TECHNIQUES 3 credits (30 clinical hours) IN ELEMENTARY PHYSICAL EDUCATION\*

Prerequisites: 130 and 193. Microteaching experience with the purpose being to improve preservice instructional skills for effective teaching of elementary physical education. Two hours lecture, two hours lab.

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

- 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.
- 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.

4 credits (30 clinical hours) 441/541 ADVANCED ATHLETIC INJURY MANAGEMENT\* Prerequisites: 3100:206/207 or 3100:208/209, 5550:240, suggested sequence, 5550:201, 302. Advanced athletic training techniques for the student desiring to become a certified athletic trainer according to the regulations of the National Athletic Trainers Association.

442/542 THERAPEUTIC MODALITIES AND EQUIPMENT IN 3 credits (30 clinical hours) SPORTS MEDICINE\*

Prerequisites: 3100:206/207 or 3100:208/209, 5550:240. Purpose is to develop techniques and skills among sports medicine personnel in the selection and implementation of therapeutic modalities and the equipment used in the rehabilitation of injuries to athletes.

450 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. 3 credits INTRAMURALS, AND ATHLETICS\*

Investigation of procedures for conducting physical education, intramural, and athletic programs. Includes toumament 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\*

Overview of the emergence of physical education as a profession and the supporting role of underlying scholarly and scientific disciplines. Three hours lecture.

- 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.
- 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
- 475 SEMINAR IN HEALTH AND PHYSICAL EDUCATION\* 3 credits (25 clinical hours) Provide the opportunity to develop mastery of problem-solving and presentation methods in health and physical education, with experiential learning.

480 SPECIAL TOPICS: PHYSICAL 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\* 1-3 credits each 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.

450/550 APPLICATION OF OUTDOOR EDUCATION TO THE 4 credits

SCHOOL CURRICULUM 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

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.

454 RESIDENT OUTDOOR EDUCATION 2 credits (20 field hours)

Skills, program considerations, and organizational techniques unique to an extended, ovemight, 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.

OUTDOOR EDUCATION PRACTICUM 460 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.

## 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

#### INDEPENDENT STUDY 1-3 credits (30-90 field hours) Prerequisites: permission of adviser and supervisor of independent study. Provides varied oppor-

tunities for a student to gain first-hand knowledge and experience with existing outdoor educa-X tion programs.

# HEALTH EDUCATION

# 5570:

3 credits

- 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 discipline; professionalism and administration in health education are considered. Three hours lecture.
- 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.
- 320 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. Two hours lecture.
- 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.
- 323 METHODS AND MATERIALS OF 3 credits (10 field hours, 20 clinical hours) TEACHING HEALTH EDUCATION\*

Prerequisites: 101, 201, 320, 5050:210/211, 5050:310/311. Planning, organization, use of instructional resources and delivery of health education content and teaching processes (K-12). Three hours lecture.

350 MEASUREMENT AND EVALUATION IN 3 credits (20 clinical hours) **HEALTH EDUCATION\*** 

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 health education under the supervision of a faculty member. The student will work 7 with current health education programs.

Students must be in the College of Education to take 300/400 level courses.

Students must be in the College of Education to take 300/400 level courses

#### 400 ENVIRONMENTAL ASPECTS OF HEALTH\*

3 credits (5 field hours, 20 clinical hours)

2 credits (60 field hours)

2 credits

2 credits

1-4 credits

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

### 421/521 COMPREHENSIVE SCHOOL HEALTH

4 credits (20 clinical hours) Prerequisites: 101, 201, 320. This course explains and presents comprehensive school health curricula for K-12, health instruction, health services and helathful school environment. The organization and administration of a comprehensive program will also be taught.

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\*

Prerequisite: permission of the adviser. On-site participation in community health organizations, agencies or resources.

#### INDEPENDENT STUDY IN HEALTH EDUCATION\* 497 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
- 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

Prerequisite: junior, senior or graduate standing. Examination of current career education models and programs with emphasis on infusion of career education activities into elemen tary and secondary 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.
- 450/550 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

494/594 COUNSELING INSTITUTE In-service programs for counselors and other helping professionals.

# SPECIAL EDUCATION

# 5610:

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2	201	STUDENT PARTICIPATION: DEVELOPMENTALLY HANDICAPPED	1 credit (credit/noncredit)
		Prerequisites: sophomore standing and permission. classes for children with developmental handicaps.	Systematic observation and participation in
2	202	STUDENT PARTICIPATION: SPECIFIC LEARNING DISABLED	1 credit (credit/noncredit)
		Prerequisites: sophomore standing and permission. classes for children with specific learning disabilities.	
2	203	STUDENT PARTICIPATION: ORTHOPEDICALLY HANDICAPPED	1 credit (credit/noncredit)

Prerequisites: sophomore standing and permission. Systematic observation and participation in classes for children with orthopedic handicaps.

Students must be in the College of Education to take 300/400 level courses.

204 STUDENT PARTICIPATION: 1 credit (credit/noncredit) SEVERE BEHAVIOR HANDICAPPED Prerequisites: sophomore status and permission. Systematic observation and participation in

classes for children with severe behavior handicaps.

- 205 STUDENT PARTICIPATION: 1 credit (credit/noncredit) MULTIHANDICAPPED
- Prerequisites: sophomore status and permission. Systematic observation and participation in classes for children with multiple handicaps. 206 STUDENT PARTICIPATION: GIFTED 1 credit (credit/noncredit)
- Prerequisites: sophomore status and permission. Systematic observation and participation in classes for children who are gifted.
- 395 FIELD EXPERIENCE: SPECIAL EDUCATION 1-3 credits 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.
- 430 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 3 credits EXCEPTIONAL INDIVIDUALS Identification, developmental characteristics, and treatment procedures for atypical children and

youth in both regular and special education facilities.

441/541 DEVELOPMENTAL CHARACTERISTICS OF THE 4 credits MENTALLY RETARDED

Prerequisites: 440/540. A survey of the etiology, diagnoses, classification, and developmental characteristics of individuals with mental retardation and developmental disabilities. This course will include individuals classified at all levels of mental retardation: mild, moderate, severe, and profound.

443/543 DEVELOPMENTAL CHARACTERISTICS OF THE SPECIFIC 3 credits LEARNING DISABLED Prerequisite: 440/540. Survey of etiology, diagnosis, classification and developmental character-

istics of learning disabled individuals. 445/545 DEVELOPMENTAL CHARACTERISTICS OF ORTHOPEDICALLY 3 credits

HANDICAPPED INDIVIDUALS Prerequisite: 440/540. Etiology, diagnosis, classification, developmental characteristics of the orthopedically handicapped individuals.

446/546 DEVELOPMENTAL CHARACTERISTICS OF THE SEVERE 3 credits BEHAVIOR HANDICAPPED Prerequisite: 440/540. Etiology, diagnosis, classification, developmental characteristics of the

socially and emotionally maladjusted individuals.

#### 450/550 SPECIAL EDUCATION PROGRAMMING: 3 credits EARLY CHILDHOOD

Typical and atypical developmental patterns of young children, assessment and implication of ndicapping conditions with respect to early intervention and supportive services

451/551 SPECIAL EDUCATION PROGRAMMING: 3 credits

ELEMENTARY LEVEL Prerequisite: 440/540. Educational implications in regard to assessment teaching strategies, adaptive materials, evaluations, that are necessary to meet the needs of elementary level exceptional children

452/552 SPECIAL EDUCATION PROGRAMMING: 3 credits SECONDARY/VOCATIONAL

Prerequisite: 440/540, and one of the following: 441/541, 443/543, 445/545, 446/546. Study of diagnostic prescriptive service delivery systems designed to accommodate developmental patterns of secondary-level exceptional individuals.

453/553 SPECIAL EDUCATION PROGRAMMING: 3 credits SEVERELY HANDICAPPED I

Prerequisites: 441/541 or 445/545, and 465/565; 7700:481/697. Study of philosophical bases of instruction, assessment practices, family integration into service delivery, Inter/Trans disciplinary practices, IEP/IHP development, and program development for the severely handicapped.

#### 3 credits

3 credits

SEVERELY HANDICAPPED II Prereguisites: 441/541 or 445/545, 453/553, 465/565, and 7700:481/697. Advanced program design for teaching persons with severe handicaps. Focuses on program planning, evaluation of student progress; developing instructional materials, and planning for community transition.

#### 456/556 SPECIAL EDUCATION PROGRAMMING: SEVERE BEHAVIOR HANDICAPPED

454/554 SPECIAL EDUCATION PROGRAMMING:

Prerequisites: 446/546. Students will develop teaching materials, assessment techniques, and IEPs for SBH individuals. Data evaluation and theoretical orientations will be stressed

457/557 SPECIAL EDUCATION PROGRAMMING: 3 credits (20 field hours). ORTHOPEDICALLY HANDICAPPED

Prerequisites: 445/545, 451/551, 452/552. Study of programs, servides, educational experi-ences, and adaptations designed to accommodate individuals who are orthopedically handicapped and/or chronically health impaired.

459/559 COMMUNICATION AND CONSULTATION WITH PARENTS AND PROFESSIONALS

Prerequisite: 440/540. Provides the prospective special education teacher with skills in communication and consultation for working with parents of exceptional individuals and other professionals.

461/	7561 TECHNOLOGY AND MATERIALS APPLICATION 3 cred
401/	IN SPECIAL EDUCATION
	Prerequisite: 5050/311 or permission of instructor. Microcomputer operation and programm in special education; operation and use of unique audio or visual tools for handicapped and adaptive use of traditional equipment; overview of curriculum materials designed for excet tional learner.
462/	7562 EDUCATING EXCEPTIONAL CHILDREN IN THE 3 cred REGULAR CLASSROOM
	For non-special education majors, teaching and administrative personnel in the field. This cour focuses on the skills and competencies needed (by regular educators) in working successful with mainstreamed exceptional children.
463/	7563 ASSESSMENT IN SPECIAL EDUCATION 3 cred Prerequisite: 440/540, 5050:310. Prepares student to select, administer and interpret formal a informal assessment procedures and use resulting data in planning educational programs exceptional individuals.
465/	7565 NEUROMOTOR ASPECTS OF PHYSICAL DISABILITIES 3 creat Prerequisites: 3100:206, or 207, or 208, or 209; 5610:440/540. Provides the student with a bak knowledge of the human neuromuscular system and the impact of neuromuscular damage the form and function of movement and behavior.
467/	/567 MANAGEMENT STRATEGIES IN 3 crec SPECIAL EDUCATION
	Prerequisites: 5050-210; 5050:211; 5050:320; 5050:330; 5610:440 and one of the followit 5610:441, 443, 445, or 446. Content emphasizing the development of application strateg with a variety of behavior management models for meditation of behaviors with excitional individuals.
470/	(570 CLINICAL PRACTICUM IN SPECIAL EDUCATION 3 cred Prerequisite: Permission of instructor. Provides a laboratory experience for students to cond psychoeducational study with students exhibiting learning/behavioral problems in school.
, 479/	/579 SEMINAR: INVITATIONAL STUDIES IN SPECIAL EDUCATION 1-2 cred
4/3/	(May be repeated for a total of four credits) Topical study with a varied array of disciplinary inc Staffing will be invited members of allied and contributing professions active in manage meni exceptional children.
480	STUDENT TEACHING: DEVELOPMENTALLY HANDICAPPED 12 cred Prerequisites: Senior status, completion of program requirements, and permission; corequisit 403 and 5050:410. Two full-time, eight-week supervised teaching experiences in special edu tion classes at the elementary and secondary levels.
<b>481</b> 7	STUDENT TEACHING: SPECIFIC LEARNING DISABLED 12 crec Prerequisites: Senior status, completion of program requirements, and permission; corequisit 403 and 5050:410. Two full-time, eight-week supervised teaching experiences in special edu tion classes at the elementary and secondary levels.
<b>482</b> 7	STUDENT TEACHING: ORTHOPEDICALLY HANDICAPPED 12 cred Prerequisites: Senior status, completion of program requirements, and permission, corequisit 403 and 5050:410. Two full-time, eight-week supervised teaching experiences in special edu tion classes at the elementary and secondary levels.
483	STUDENT TEACHING: SEVERE BEHAVIOR HANDICAPPED 12 cred Prerequisites: Senior status, completion of program requirements, and permission, corequisit 403 and 5050:410. Two full-time, eight-week supervised teaching experiences in special edu tion classes at the elementary and secondary levels.
484	STUDENT TEACHING: MULTIHANDICAPPED 12 crec Prerequisites: Senior status, completion of program requirements, and permission, corequisit 403 and 5050:410. Two full-time, eight-week supervised teaching experiences in special edu tion classes at the elementary and secondary levels.
485	STUDENT TEACHING SPECIAL EDUCATION         8 cred           Prerequisite:         Completion of major program requirements permission. A full-time week(Summer 5 week) planned teaching experience in a designated setting with exception children under the supervision of the cooperating teacher and the University supervisor.
<b>490</b> ,	1.2.3/590,1.2.3 WORKSHOP 1-3 credits ea (May be repeated for a total of six credits) Designed to explore special topics in in-service or p service education on a needs basis.
494/	/594 EDUCATION INSTITUTES: SPECIAL EDUCATION 1-4 crect Special courses designed as in-service upgrading programs, frequently provided with the s port of national foundations.
497	INDEPENDENT STUDY: SPECIAL EDUCATION 1-3 cred Prerequisites: permission of adviser and supervisor of the independent study. Specific area investigation determined in accordance with student's needs.

# SCHOOL PSYCHOLOGY

investigation determined in accordance with student's needs.

# 5620:

490/590 WORKSHOP

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

1-4 credits Prerequisite: permission of instructor. Specifically designed learning experience for program graduate focusing on critical topics.

# MULTICULTURAL **EDUCATION**

# 5630:

480 SPECIAL TOPICS: MULTICULTURAL EDUCATION 1-A 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.

481/581 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.

482/582 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.

483/583 PREPARATION FOR TEACHING CULTURALLY 3 credits DIVERSE POPULATIONS

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

#### 484/584 PRINCIPLES OF BILINGUAL/MULTICULTURAL EDUCATION 3 credits

An introduction to the theoretic, cultural, sociolinguistic bases of bilingual/multicultural education. Legislation, court decisions, program implementation included.

485/585 TEACHING READING AND LANGUAGE ARTS TO 4 credits BILINGUAL STUDENTS

Prerequisite: permission of instructor. Course applies methodologies for teaching reading, language arts in the bilingual/multicultural classroom. The bilingual student's native language, culture stresses

3 credits

1-3 credits

1-4 credits

486/586 TEACHING MATHEMATICS, SOCIAL STUDIES AND SCIENCE TO BILINGUAL STUDENTS

Prerequisites: elementary education majors, 5200:333, 336, 338; for secondary education majors, 5300:311 (science, social studies or mathematics). Course applies methodologies for teaching mathematics, science, social studies in the bilingual/multicultural classroom. The bilingual student's native language stressed.

#### 487/587 TECHNIQUES 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.

## 490/590 WORKSHOP: BILINGUAL/MULTICULTURAL

Emphasizes development of teaching devices and/or curriculum units, demonstration of teaching techniques

# EDUCATIONAL FOUNDATIONS AND LEADERSHIP

# 5700:

1-2 credits

480 SPECIAL TOPICS: EDUCATIONAL ADMINISTRATION (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 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 courses designed as in-service upgrading programs, frequently provided with the support of national foundations.

# 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 or resources; planning of curriculum units.	of community
491/591 WORKSHOP IN ARITHMETIC OR IN PHYSICAL SCIENCE	1-3 credits
Individual work under staff guidance on curriculum problems; utilization or resources; planning of curriculum units.	of community
492/592 WORKSHOP IN READING Individual work under staff guidance on curriculum problems; utilization or resources; planning of curriculum units.	1-3 credits of community
493/593 WORKSHOP ON EXCEPTIONAL CHILDREN Individual work under staff guidance on curriculum problems; utilization or resources; planning of curriculum units.	<i>1-3 credits</i> of community
494/594 INTERNATIONAL SCHOOL STUDY	3-6 credits

7 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: 100 INTRODUCTION: PUPIL PERSONNEL WORK 2 credits Purposes, needs, scope, character of pupil personnel services. 201 INFORMATIONAL SERVICES IN GUIDANCE 2 credits AND SPECIAL EDUCATION 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.

5 credits

## 295 EDUCATION TECHNICIAN FIELD EXPERIENCE

(May be repeated once) Supervised field experience in school setting designed for educa tional technician enrollees only.

# College of **Business** Administration

# **COOPERATIVE EDUCATION** 6000:

## 301 COOPERATIVE EDUCATION

0 credits (May be repeated) For cooperative education students only. Work experience in business, industry, or governmental agency. Comprehensive performance evaluation and written report required

# GENERAL BUSINESS

# 6100:

3 credits 101 GLOBAL BUSINESS CONCEPTS AND PRACTICES An introductory course presenting the business firm throughout the world as an integrative unit that uses information from various functional fields in decision-making.

# 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:

budgeting

## 200 PROFESSIONAL ORIENTATION

- 1 credit Provides an overview of the field of accounting and examines the professional skills and personal attributes required for a successful career in accounting.
- 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
- 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

#### 250 COMPUTER APPLICATIONS FOR BUSINESS

Prerequisite: Computer proficiency. Introduces analysis and design of information systems. Provides hands-on experience with microcomputer applications such as spreadsheets, graphics and data-base management using integrated spreadsheet software. For non-Accounting majors

3 credits

3 credits

## 255 INFORMATION PROCESSING

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.

#### COST ACCOUNTING 301

3 credits Prerequisites: 3250:200, and grades of not less than "C" in 6200:201, 202. Introduction to product costing, emphasizing analysis of materials, labor and factory overhead. Cost control achieved through use of flexible budgets, standard costs and variance analysis.

- 320 ACCOUNTING CYCLES AND FINANCIAL STATEMENTS 3 credits Prerequisites: Grade of not less than "C" in 6200:201. Study of the accounting process and financial statements, accounting for cash, receivables and inventory.
- 321 INTERMEDIATE ACCOUNTING I 3 credits Prerequisite: 320 and satisfactory performance on an accounting admissions test approved by the School of Accountancy. Accounting for property, plant and equipment, liabilities, stockholders' equity, investments and revenue recognition.
- 322 INTERMEDIATE ACCOUNTING II 3 credits Prerequisite: 320 and satisfactory performance on an accounting admissions test approved by the School of Accountancy. Accounting for tax allocation, pensions, leases, accounting changes, cash flows and financial statement analysis.

## 360 BUDGETING

Prerequisite: 301. Study of principles and policies of budgeting. Emphasis on managerial control of expenses, capital expenditures and related activities.

3 credits

- ACCOUNTING SURVEY 401 3 credits Prerequisite: permission of instructor. Introductory course for student with no previous accounting background. Essential accounting concepts, techniques and terminology for busi ness 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.
- TAXATION FOR THE NON-ACCOUNTANT 3 credits Provides non-accountant basic knowledge of federal tax law as applied to individuals and businesses. Not open to accounting major.

## 420/520 ADVANCED ACCOUNTING

3 credits Prerequisite: 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. Essential for C.P.A. preparation. 430/530 TAXATION I 3 credits Prerequisite: 320. Federal tax law related to individuals, partnerships, and corporations. 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. Additional aspects of individual taxation, Federal tax law related to property transfers and retirement and family tax planning.

440/540 AUDITING 3 credits Prerequisites: 255; 321; and 6500:221 must be taken prior to or concurrently. Examines auditing standards and procedures used by independent auditor in determining whether a firm has fairly represented its financial position.

#### 454 INFORMATION SYSTEMS 3 credits

Prerequisites: 202, 255 or permission of instructor. Focus on development of accounting methods and procedures, installation and improvement of accounting systems and evaluation of automated data processing systems. This course cannot be taken in lieu of 6500:325 Analysis and Design of Information Systems

#### 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.
- 486 CPA PROBLEMS: ACCOUNTING PRACTICE 3 credits Prerequisite: permission of instructor. Study of methods for solving various types of problems which appear on accounting practice section of CPA examination.
- 487 CPA PROBLEMS: TAXATION 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 2 credits 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 1-3 credits
  - 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

(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.

1-3 credits

## 495 INTERNSHIP IN ACCOUNTING

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.

3 credits (credit/non-credit)

3 credits

3 credits

3 credits

- 497 HONORS PROJECT 1-3 credits (May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. Ý Individual senior honors thesis or creative project relevant to accounting approved and supervised by member of the department faculty
- INDEPENDENT STUDY IN ACCOUNTING 499 1-3 credits Prerequisite: permission
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# **ENTREPRENEURSHIP**

# 6300:

- 201 INTRODUCTION TO ENTREPRENEURSHIP
- 3 credits An introduction to the entrepreneurial principles of starting, managing and marketing a new business. Open to all university students
- 301 ENTREPRENEURIAL MANAGEMENT AND OPERATIONS 3 credits Prerequisite: 201. Study of management functions for students not majoring in business but interested in business ownership. Emphasis placed upon entrepreneurial behavior, employee issues, and operations,
- 303 ENTREPRENEURIAL MANAGEMENT ISSUES
- Prerequisites: 201 and 6500:301, 330. Study of issues uniquely related to management of new and entrepreneurial ventures for students majoring in business and interested in business ownership
- 330 ENTREPRENEURIAL ISSUES IN ACCOUNTING AND FINANCE 3 credits Prerequisite: 201. Exploration of the accounting, financing, taxation, and insurance issues sur-rounding entrepreneurial decision-making for students interested in business ownership.

#### 360 ENTREPRENEURIAL FIELD PROJECT

- 3 credits 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 7
- business development center, a small business incubator, or an existing small business
- 370 ENTREPRENEURIAL PRINCIPLES AND PRACTICE 3 credits An introduction for students to the power of the free market, the theory of entrepreneurship and its importance to a free society and the economy through case study, field experience and other pedagogical tools

## 450 ENTREPRENEURIAL STRATEGIC PLANNING

- Prerequisites: 301 or 303, and 330. A capstone integrative course focusing upon identification of venture opportunities. Students will develop, present, and defend a business plan for a proposed venture
- 490 ENTREPRENEURIAL SPECIAL TOPICS 1-3 credits Prerequisite: 201. Provides opportunity for study of special topics not covered in other entrepreneurial courses. Separate topics may be repeated for a maximum of six credits

#### INDEPENDENT STUDY IN ENTREPRENEURSHIP 499

1-3 credits Prerequisite: 201. Provides a means for individual study in entrepreneurship from which Ć students can derive significant benefit.

# **FINANCE**

# 6400:

- 220 THE LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS 3 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 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
  - 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 3 credits Applications of Uniform Commercial Code in sales, commerical 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.
- 325 BUSINESS AND SOCIETY 3 credits Conceptual course considers financial, economic, legal and sociopolitical implications of business in society. Issues related to economic and legal framework for business decisions
- 332 PERSONAL FINANCIAL PLANNING 3 credits 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 3 credits 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 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.
- 371 BUSINESS FINANCE 3 credits Prerequisites: 3250:200; 3450:289A or 3450:145; and 6200; 201, An overview of the financial system and the major decision areas of the financial manager such as capital budgeting, financng, and working capital management
- 379 ADVANCED BUSINESS FINANCE 3 credits 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.
- 401 REAL ESTATE INVESTMENT 3 credits Prerequisites: 371 or 6140:370 or permission of instructor. Advanced course in real estate investment which covers investing in all types of real estate including single-family mortgages and creative investment techniques for income properties.
- 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 covering the financing of real property. Included are methods, institutions, instruments, valuation, appraisal and policy in real estate finance.
- 413 PROPERTY AND LIABILITY INSURANCE 3 credits Prerequisite: 371 or 6140:370; or permission of instructor. A study of property and casualty insurance contracts, insurance companies, industry regulation.
- 414 LIFE AND HEALTH INSURANCE 3 credits Prerequisite: 371 or 6140:370; or permission of instructor. Detailed study of life and health insurance contracts, insurance companies, industry regulations.
- 415 RISK MANAGEMENT AND INSURANCE Prerequisite: 371 or 6140:370; or permission of instructor. Concept of risk and risk management and principles of insurance are developed in business. Life and health insurance related to employee benefit problems.
- 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 regulations. The legal concepts of the business of real estate are likewise examined. Emphasis is on a managerial approach utilizing the case method.
- 436 COMMERICAL 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. Analyses of policy making in areas of liquidity, loan and security investment and sources of funds.
- 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 nstructor or department.

1-3 credits

#### 495 INTERNSHIP IN FINANCE

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
- INDEPENDENT STUDY: FINANCE 499
- Prerequisite: permission of department head. Provides means for individualized in-depth study ९ of finance problem or problems from which student can derive significant benefit.

1-3 credits

3 credits

3 credits

1-3 credits

# 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 3 credits Prerequisite: 3450:145. Math diagnostic test and review, probability; descriptive statistics; sampling distributions; interval estimations; introduction to hypothesis testing and p-values. Case analysis with written and oral team reports will be used.
- 222 QUANTITATIVE BUSINESS ANALYSIS II 3 credits Prrequisite: 221. Continuation of hypothesis testing; ANOVA; simple and multiple linear regression; one- and two-sample nonparametric procedures; chi-square tests of goodness of fit and association; multi-sample nonparametric procedures. Cases and team projects will be used.
- 301 MANAGEMENT: PRINCIPLES AND CONCEPTS 3 credits Prerequisites: Three credits in behavioral science, economics, mathematics. An interdisciplinary approach to the study of the basic principles of general management theory and practice.
- 302 INTRODUCTION TO ORGANIZATIONAL BEHAVIOR 3 credits Prerequisites: 301 and two courses in psychology, sociology. Investigation of applications of behavioral and social sciences as they relate to individual, group behavior in organizations.
- 3 credits 310 BUSINESS INFORMATION SYSTEMS Prerequisites: 6200:250 or 255 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.
- 324 DATA MANAGEMENT FOR INFORMATION SYSTEMS 3 credits Prerequisites: upper-college standing and 310. Developing business application systems using database management systems software, including sequential and random files, finding and arranging records, and database management systems applications.
- 325 ANALYSIS AND DESIGN OF INFORMATION SYSTEMS 3 credits Prerequisite: 310. In-depth coverage of the analysis, design, implementation and maintenance of computer-based information systems. (Cannot be taken in lieu of 6200:454.)
- 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 ADVANCED PRODUCTION AND OPERATIONS ANALYSIS 3 credits Prerequisite: 333. Application of advanced models in the analysis and design of operational systems in manufacturing and service environments.
- 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
- Prerequisite: 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
- 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.
- 412/512 DEVELOPMENT OF MANAGEMENT THOUGHT 3 credits Prerequisites: upper-college or graduate standing and 301, or 600 or equivalent. Review of development of managerial theories from 5000 B.C. to present with consideration of their application to present organizational settings.
- 421 OPERATIONS RESEARCH 3 credits 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 AND EXPERT SYSTEMS 3 credits Prerequisite: 325. Introduction to Decision Support & Expert Systems, design and development using spreadsheet software, Decision Support software and/or Expert Systems shells.
- 433 BUSINESS OPERATIONAL PLANNING 3 credits Prerequisite: 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: 333. Coverage of materials management, production planning, scheduling and con-trol. Integrates material from previous courses, provides overall framework including use of computer and quantitative methods.
- 435 QUALITY CONTROL 3 credits Prerequisites: 330. Emphasis on statistical techniques essential to controlling product quality for both measurement and attribute data. Includes control chart methods and acceptance sampling
- 436 ADVANCED QUALITY CONTROL APPLICATIONS 3 credits Prerequisite: 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: 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: 341. Focus on the design, implementation and evaluation of employee compensation and benefits programs.
- 443 ADVANCED HUMAN RESOURCE MANAGEMENT 3 credits Prerequisite: 341. Advanced study of current issues and problems in field of personnel. Emphasis given to current literature and research. Activities may include projects, library research, case studies
- 455/555 MANAGEMENT OF ARBITRATION: COMMERCIAL 3 credits INTERNATIONAL AND HUMAN RESOURCES

Prerequisites: upper-college or graduate standing and 301 or 600 or equivalent. A comprehen-sive study of managerial strategies for commercial, international and human resource arbitration. Graduate requirement: research paper

- 457 INTERNATIONAL MANAGEMENT 3 credits Prerequisites: upper-college standing and 301 or equivalent. Management practices and techniques 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, production 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: 333 or 342 or 443. ((Student who has earned credit in 471 is ineligible to register for or earn credit in 472, 473.) Student applies modern management principles, practices, theory to an actual problem in industry

- 472 PRODUCTION/OPERATIONS MANAGEMENT PROJECT 3 credits Prerequisite: 333. (Student who has earned credit in 472 is ineligible to register for or earn credit in 471, 473.) Student applies modern management principles, practices and theory to an actual production problem in industry.
- 473 HUMAN RESOURCE MANAGEMENT PROJECT (Student who has earned credit in 473 is ineligible to register for or earn credit in 471, 472.) Prerequisites: 342 or 443 and senior standing. Student applies modern management principles, practices and theory to an actual personnel problem in industry.
- 477 MANAGEMENT SIMULATION 1 credit Prerequisite: 301. Simulation of management practices through computerized game or experiential exercise
- 478 HUMAN RESOURCE SIMULATION 1 credit Prerequisite: 341. Simulation of human resource practices through computerized or experiential evercises
- 479 OPERATIONS SIMULATION 1 credit 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

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.

1-3 credits

3 credits

1-3 credits

1-3 credits

-3 credits

1-3 credits

3 credits

X

#### 490 BUSINESS POLICY

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 analyses. Objective and strategy formulation from an administrative viewpoint and international dimension. Emphasis on oral and written communications.

### 491 WORKSHOP IN MANAGEMENT

(May be repeated with permission of instructor or department) Group studies of special topics in management. May not be used to meet undergraduate major requirements in management. May be used for elective credits only.

### 495 INTERNSHIP IN MANAGEMENT

Prerequisite: permission of instructor. On-the-job experience with cooperating private and public sector organizations. Individual assignments made by supervising faculty member. Periodic reports, term papers required as appropriate.

#### HONORS PROJECT 497

(May be repeated for a total of six credits) Prerequisite: senior standing in Honors Program. Y Individual senior honors thesis or creative project relevant to management approved and supervised by member of the department faculty.

#### INDEPENDENT STUDY: MANAGEMENT 499

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:

#### 293 CAREER ORIENTATION

1 credit 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

A general survey of marketing activities including analysis of markets, competition, consumer behavior, information systems, and the assessment of product, price, distribution, and promotion strategies.

#### 305 ESSENTIALS OF RETAILING

Prerequisite: 300. Survey of basic concepts and principles of retailing including retail formats, store facilities, market analysis, site selection, merchandising management, retail pricing, and promotions management.

### 309 ESSENTIALS OF RETAIL MERCHANDISING

Prerequisite: 300. Practical retail applications in the planning and control of merchandise assort ments, merchandise budgets, inventory systems, buying procedures, vendor relationships, and buying practices.

#### 350 ADVERTISING

Prerequisite: 300. Explains and analyzes advertising's role in marketing operations. Special attention given to the integration with sales promotion, event marketing, direct response, and other support strategies.

### 355 BUYER BEHAVIOR

Prerequisite: 300. Interdisciplinary approach to the analysis of the nature of consumer buying behavior. Economical, social, and psychological influences on consumers' decision-making processes are examined.

#### 370 PURCHASING

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 prod uct or provide a service.

## 375 PROFESSIONAL SELLING

Prerequisite: 300. Builds communication skills while learning about buyer needs, prospecting, making sales presentations, persuading, overcoming sales resistance, closing sales, and building relationships

#### 385 INTERNATIONAL MARKETING

Prerequisite: 300 and 6800:305. Provides a basic understanding of the complexities of foreign marketing. It assumes knowledge of the basic international business course.

#### 390 MARKETING CHANNELS

Prerequisite: 300. An integrative approach to analysis of marketing channels of distribution to complement the more specialized analyses of retailing, wholesaling and physical distribution Stresses the interaction of firms comprising a channel and the nature of managerial decisions designed to coordinate the efforts of the group of institutions that make up a channel of distribution.

#### 415 BUSINESS LOGISTICS

Prerequisite: 300, Basic course in source, movement, and storage of goods, including emphasis on economics of transportation and requirements of an effective system.

# 425 ADVERTISING RESEARCH AND EVALUATION Prerequisite: 350. The role and methods of research are studied as they relate to the planning of

advertising campaigns, with attention to market analysis, competitor analysis, and copy and media planning. Post-campaign measurement of copy, media and marketing efficiencies and effectiveness are also studied

430 PROMOTIONAL CAMPAIGNS 3 credits Prerequisite: 350. Examination of total communications efforts involved in planning, developing, and monitoring promotional campaigns. Focus is understanding the nature and roles of the advertiser, agency, and support services.

### 440 PRODUCT PLANNING

3 credits Prerequisite: 300. Examines the creation of new products and the management of existing products through the life cycle.

#### 450 STRATEGIC RETAIL MANAGEMENT 3 credits 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 3 credits 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.

#### 3 credits 470 BUSINESS TO BUSINESS MARKETING

Prerequisite: 300, Covers industrial and organizational buyer behavior, as well as the strategic marketing management practices of firms selling to business organizations, governmental agencies, and institutions.

#### 475 BUSINESS NEGOTIATIONS 3 credits Prerequisite: 300. 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.

#### 490 MARKETING STRATEGY 3 credits

Prerequisites: Senior standing and 425 or 460. Capstone course stressing integration of marketing functions through development of strategic thinking and analytical skills. Course employs case analysis, computer applications, and field projects

#### 491 WORKSHOP IN MARKETING 1-3 credits Group studies in special topics in marketing. May not be used to meet major requirements in

marketing 493 CAREER MANAGEMENT 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.

#### 495 INTERNSHIP IN MARKETING 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. 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 marketing, approved and super-

# vised 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**:

#### 305 INTERNATIONAL BUSINESS

A basic course in international business which can also provide a platform for more specialized international business courses.

3 credits

3 credits

1-3 credits

### 405 MULTINATIONAL CORPORATIONS

3 credits 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

Prerequisite: 305. 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.

#### 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 international business, approved and supervised by member of the department faculty.

# **College of Fine and Applied Arts**

# **COOPERATIVE EDUCATION**

# 7000:

301 COOPERATIVE EDUCATION 0 credits (May be repeated) For cooperative education students only. Work experience in business, industry, or governmental agency. Comprehensive performance evaluation and written report required.

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# 7100:

- 100 SURVEY OF HISTORY OF ART I 4 credits 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.
- 105 UNDERSTANDING ART 3 credits Uses different societies have found for art and how social and technological levels of the society have affected the kind of art they make. No credit toward major in art.
- 121 THREE-DIMENSIONAL DESIGN 3 credits Introduction to meaning of "design" and act of designing in real space. Study of naturally occurring form, structure and process.
- 131 INTRODUCTION TO DRAWING 3 credits No prerequisite. Introduction to drawing materials and techniques with an emphasis on observation, representation, and formal principles of composition and design.
- 132 INSTRUMENT DRAWING 3 credits 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.
- 170 FUNDAMENTALS OF PHOTOGRAPHY 3 credits 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
   3 credits

   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 I 3 credits Prerequisite: 131; prerequisite or corequisite: 132. Studio experience in use of tools and materials of commercial graphic artist. Elementary design problems in commercial graphic design.
- 185 INTROODUCTION 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
- Lecture course providing appreciation and understanding of arts of various types/periods with emphasis on topics and influences on societies, rather than historical sequence

3 credits

- 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 3 credits Prerequisites: 131, 144. Intaglio printmaking using drypoint engraving, aquatint and soft-ground techniques. Emphasis on aesthetic theory, technique and related history.
- 222 INTRODUCTION TO SCULPTURE 3 credits Prerequisite: 121. 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.
- 244 COLOR CONCEPTS 3 credits Prerequisites: 144 or 286 or 2240:124 and 7100:131. Lecture and studio experience giving information concerning perception of color, additive color phenomena of light, subtractive color phenomena of pigments and dyse, color notation systems and psychological effects of color.
- 245 INTRODUCTION TO POLYMER ACRYLIC PAINTING 3 credits Prerequisites: 131, 144. Technical, aesthetic problems involved in polymer acrylic painting. Student pursues, through lecture and experimentation, transparent and opaque uses of this water-based paint.
- 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.
- 247 INTRODUCTION TO OIL PAINTING 3 credits Prerequisites: 131, 144. Study of technical and aesthetic problems involved in oil painting. A painterly orientation toward plasticity of form as mediated by color.
- 248 AIRBRUSH TECHNIQUES 3 credits Prerequisites: 131, 144, or for graphic design majors, 286. 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.
- 250 PORTFOLIO REVIEW O credits Prerequisites/corequisites: 144 or 286, and 121, 131, 132, 233. Credit/noncredit course. Faculty review of art foundation studio work from prerequisite/corequisite courses.
- 254 INTRODUCTION TO CERAMICS 3 credits Studio/lecture course exploring potentials of hand-building techniques in both sculptural and functional forms. Clay processing, glaze application and practical kiln firing.
- 266 INTRODUCTION TO METALSMITHING 3 credits Prerequisite: 121, 144, or for graphic design majors, 286. Studio experience in which student is introduced to properties of metals, processes of silversmithing and design and production of jewelry.
- 268 COLOR IN METALS 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, or 286. Lecture, studio and laboratory course. Techniques and aesthetics are studied using both 4x5 and 35mm cameras. A 35mm camera 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 proiects.
- 283 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 ELECTRONIC STILL IMAGING 3 credits (May be repeated for a total of six credits) Prerequisite: 185 or permission of instructor. A follow up to Introduction to Computer Graphics. High resolution imaging in both fine art and commercial applications.
- 286 GRAPHIC DESIGN II 3 credits Prerequisites: 184 and 132. Basic course in visual problem solving emphasizing visual movements in, and graphic elements of, single as well as multiple images. Equal emphasis given to existing and created images.
- 288 LETTERFORM AND TYPOGRAPHY 3 credits Prerequisite: 185, 286. Letter symbols studied in terms of communication and aesthetic awareness. History of letter forms, hand lettering, alphabet design, contemporary type faces and reproduction processes.
- 300 ART SINCE 1945 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.
- 302 ART IN EUROPE DURING THE 17TH AND 18TH CENTURIES 3 credits Prerequisite: 101 or permission of instructor. Analysis of major European examples of architecture, landscape design, painting, prints and sculpture from beginning of the 17th Century until approximately 1850.
- 303 RENAISSANCE ART IN ITALY 3 credits Prerequisite: 101 or permission of instructor. Study of architecture, painting and sculpture of Italy during 13th through 16th Centuries.

3 credits

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. 305 ART FROM 1900 TO 1945 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 rerequisite: 101 or permission of instructor. Painting, architecture, and sculpture of northem Europe from 14th through 16th centuries. 317 PRINTMAKING II 3 credits Prerequisites: 213 or 214 or 215or 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 ILLUSTRATION/ADVERTISING PHOTOGRAPHY 3 credits 319 PRINTMAKING PORTFOLIO REVIEW 0 credits Prerequisites: 318. A committee of full-time faculty review portfolio of studio work completed in all printmaking courses. 320 PORTRAIT/FASHION PHOTOGRAPHY 3 credits 321 FIGURATIVE SCULPTURE 3 credits 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 323 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. 331 DRAWING III 3 credits Prerequisites: 144, 231, 233. Development of personal concepts and imagery through investigation of historical and contemporary styles and issues. 333 ADVANCED LIFE DRAWING 3 credits (May be repeated for a total of six credits) Prerequisites: 231, 233. Studio course in drawing from human figure. Individual interpretation of human figure, using numerous media and draw ing techniques. Emphasis on aesthetic structure and formal realization of personal intention, 334 DRAWING PORTFOLIO REVIEW 0 credits Prerequisite: 231; corequisites: 7100:331, 333. A committee of full-time faculty reviews portfolio of studio work completed in prerequisite/corequisite courses. 348 PAINTING II 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. PAINTING PORTFOLIO REVIEW 0 credits Prerequisites: 245, 247, 348. A committee of full-time faculty reviews portfolio of studio work completed in prerequisite/corequisite courses. 354 CERAMICS II 3 credits 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. 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 3 credits (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 3 credits 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 ex posure meter. 384 GRAPHIC DESIGN PORTFOLIO REVIEW 0 credits Prerequisite: 288: corequisite: 387. Credit/noncredit course. Graphic design faculty review port folio of studio work completed in prerequisite/corequisite courses. COMPUTER MODELING AND ANIMATION 385 3 credits Prerequisites: 121, 185. Advanced computer imaging course with an emphasis in three-dimensional 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 3 credits Prerequisites: 275, 288. Creative exploration of problems in visual merchandising. Projects offer exercises in developing skills from concept through final comprehensive presentation.

3 credits ADVERTISING PRODUCTION AND DESIGN Prerequisites: 276, 384,387 and 375. Continuation of 387. More complex projects with emphasis given to mechanical preparation of finished art for various printing processes.

#### 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: 100, 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.

#### 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.

#### 418 ADVANCED PRINTMAKING

3 credits (May be repeated for a total of 12 credits) Prerequisites: 121, either 245 or 246 or 247, 317 in the appropriate process, and 375. 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 Prequisites: 7100:222, 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: 322. Development of individual points of view and sculptural statements.

431 DRAWING IV Prerequisites: 331. Exploration designed for production of personally expressive drawings con-

# tributing to formation of career portfolio. Repeatable for a total of nine credits.

449 ADVANCED PAINTING 3 credits (May be repeated for a total of nine credits) Prerequisites: 121, 231, 233, 348 in the appropriate medium. Advanced-level painting course. Opportunity to explore polymer acrylic, oil or water color painting techniques, and experiment with aesthetics of color, form and style Concentration in one medium as follows: polymer acrylic, watercolor, oil.

### 454 ADVANCED CERAMICS

3 credits (May be repeated for a total of 15 credits) Prerequisite: 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

### 456 CERAMICS PORTFOLIO REVIEW

0 credits Prerequisites: 454. A committee of full-time faculty reviews portfolio of studio work completed in prerequisite courses.

#### 466 ADVANCED METALSMITHING 3 credits (May be repeated for a total of 12 credits) Prerequisites: 366. Investigation in depth of aesthetic and technical problems of metalsmithing. Student works on individual projects under guidance from instructo

#### 467 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: 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.

#### 479 PROFESSIONAL PHOTOGRAPHIC PRACTICES 3 credits http://www.uakron.edu/studentaffairs

#### 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.

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 3 credits

# Prerequisite:7100:482. To be taken the last semester before graduation. Students prepare a professional portfolio and resume. Includes individual project development, portfolio review and exhibition.

484 ILLUSTRATION 3 credits Prerequisite: 283 or permission of instructor. Application of painting and drawing skills and aesthetic sensitivity to specific commercial illustration and editorial art assignments.

#### 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 488 PUBLICATION DESIGN 3 credits

Prerequisite: 482. Advanced research, design of promotional brochures, annual reports and other multipaged communicational print. Emphasis on total design from concept to cameraready art. Individual approach to communicative graphics stressed

#### 489 SPECIAL TOPICS IN STUDIO ART 3 credits (May be repeated for credit when a different subject or level of investigation is indicated) Prerequisite: advanced standing or permission of instructor. Group investigation of a particular phase of art not offered by other courses.

490/590 WORKSHOP IN ART 1-4 credits (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.

3 credits

1-12 credits

2 credits

3 credits

3 credits

#### 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.

#### SENIOR EXHIBITION

0 credits Prerequisite: senior standing and permission. Exit review of work from B.F.A. candidate's major courses

#### ART INTERNSHIP/PROFESSIONAL EXPERIENCE 496

(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 on-the-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 permission 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 his-

tory 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. 3 credits

## 499 HONORS IN ART

8

(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).

# HOME ECONOMICS AND FAMILY ECOLOGY

# 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 principles to personal characteristics and social/professional orientation.

### 132 EARLY CHILDHOOD NUTRITION

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 experience, 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

meal service.

Study of basic nutrition concepts, contemporary issues, controversies; emphasis on macro/micro nutrient requirements for healthy individuals; analysis of intake and energy balance.

#### 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 Application of nutrition to meal planning; problems in selecting, budgeting and preparing food;

ORIENTATION TO PROFESSIONAL STUDIES IN HOME ECONOMICS 147 1 credit AND FAMILY ECOLOGY

Survey of history and development of home economics 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.
- COURTSHIP, MARRIAGE AND FAMILY RELATIONSHIPS 3 credits Love, intimacy, relationship development, sexuality, marriage/child rearing are studied in lifespan perspective. Emphasis placed on individual relation to changing family/social/cultural demands.

#### 204 SURVEY OF APPLIED HOME ECONOMICS IN THE COMMUNITY 1 credit Directed study and observation of ongoing community and business programs in home economics and family ecology related areas including housing, home management, family financial management, food and nutrition, clothing, child development, parent effectiveness and handicapping conditions through family life cycle. Weekly two-hour local tour in addition to class sessions

- 218 FAMILY HEALTH AND HOME NURSING 2 credits Overview of strategies for generation of positive physical, mental and emotional health across individual and family life cycles. Emphasis on preventative strategies as well as homecare procedures
- 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
- 3 credits 255 FATHERHOOD: THE PARENT ROLE 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 DATACAD FOR INTERIOR DESIGN 3 credits Prerequisites: 158. An introductory course in computer drafting as an alternate to conventional drafting for interior design applications.
- 258 LIGHT IN MAN-MADE ENVIRONMENTS 3 credits Prerequisite: 158. 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.
- 275 PLAY AND CREATIVE EXPRESSION ACTIVITIES 4 credits Prerequisite: 265. Importance of play in child's social, emotional, intellectual and physical growth. Encouragement of creativity in adults and children through planned experiences that provide for individual expression.
- 280 CREATIVE ACTIVITIES FOR PRE-KINDERGARTEN CHILDREN 4 credits Prerequisite: 265. Planning, presenting, evaluating creative activities in art, music, movement, language arts, logico-mathematics and science. Space, time, materials and adult-child interaction are emphasized
- 290 ADMINISTRATION OF CHILD-CARE CENTERS 3 credits Prerequisites: 265, 275 or permission of instructor. Study of principles, concepts and procedures involved in working with children in preschool programs. Curriculum innovation and implementation, parent involvement, observation and recording of children's progress.
- 295 DIRECT EXPERIENCES IN THE HOSPITAL 1 credit Prerequisite: permission of adviser. Individual learning experiences for students with patients, their 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 CONSLIMERS 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.
- 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 concepts in the management of dietetic food service systems and the practical application of principles and procedures in quantity food production and service.
- 311 STUDIES IN FIBER ARTS 3 credits Exploration of a specific fiber arts technique such as needle arts, weaving, surface design, wearable art, or machine stichery. (May be repeated for a total of nine credits.)
- 315 FOOD SYSTEMS MANAGEMENT I 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

4 credits

418/518 HISTORY OF INTERIOR DESIGN I

- 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 interpretation of current literature; assessment of nutrition counseling techniques.
- 328 NUTRITION IN MEDICAL SCIENCE I 4 credits 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 2 credits (credit/honcredit) Prerequisites: 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 3 credits Prerequisites: 158, 259, A comprehensive study of interior design theories and application in the built environment.
- 332 HUMAN FACTORS AND INTERIOR SPACE 3 credits Prerequisites: 158, 259. A comprehensive study of human factors in order to insure the proper relationship between user and interior spaces.
- 333 SPACE PLANNING AND PROGRAMMING 3 credits Prerequisites: 7400:158,259; 7100:491. A comprehensive study of space planning principles and the programming phase of the design process.
- 334 SPECIFICATIONS FOR INTERIORS I 3 credits Prerequisites: 7400:225, 158,259. A comprehensive study of composition, characteristics, manufacture, dimensions and use, bi-products, installation, and specifications of interior construction materials.
- 335 SPECIFICATIONS FOR INTERIORS II 3 credits Prerequisites: 7400:225,158,334. A comprehensive study of interior finish material with emphasis on soft goods and textiles, selection criteria, estimating, and writing specifications.
- 336 PRINCIPLES AND PRACTICES OF DESIGN 3 credits Prerequisites: 7400:158,258,333,334,335; 2940:250. Study of the business of interior design to include initiating and maintaining a successful practice in residential or non-residential design.
- 340 MEAL SERVICE 2 credits 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.
- 552 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.

3 credits

3 credits

- 362 FAMILY LIFE MANAGEMENT 3 credits 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 HOME ECONOMICS 1-3 credits Development of managerial expertise through experience. Selected participation sites in business and industry, hospitals, community agencies and with individual families with special managerial problems.
- 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 emphasis 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 3 credits 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 3 credits 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.
- 413 FOOD SYSTEMS MANAGEMENT II 3 credits Prerequisite: 310. Advanced concepts in management of dietetic service systems relating to achievement of nutritional care goals.
- 414 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.
- 415 HOUSEHOLD EQUIPMENT 2 credits Selection, use and care of modern household equipment. Survey of commercial equipment used in home economics related professions.

- 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 II 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 HOME ECONOMICS 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 nutritional 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 end uses. 426 THERAPEUTIC NUTRITION 5 credits Prerequisites: 133, 3100:209, 3150:111, 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.
- 433/533 RESIDENTIAL DESIGN 3 credits Prerequisites: 7400:158,258,333,334; 7100:491. A comprehensive study of residential design with emphasis on conceptual, analytical, and graphic skills.
- 434/534 COMMERCIAL DESIGN 3 credits Prerequisites: 7400:158,258,333,334; 7100:491. A comprehensive study of non-residential design with emphasis on conceptual, analytical, and graphic skills.
- 435 DECORATIVE ELEMENTS IN INTERIOR DESIGN 1 credit Prerequisites: 158, 418, and 7100:210. 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 TO 1800 3 credits Study of costume and textiles from antiquity through the 18th century, with emphasis on social/cultural influences.
- 438/538 HISTORY OF FASHION SINCE 1780 3 credits Study of 19th and 20th century 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.
- 445/545 PUBLIC POLICY AND THE AMERICAN FAMILY 3 credits How legislation in such areas as housing, clothing, consumer affairs, family formation and dissolution, resource conservation, child development and health care affects and, in some cases, determines the nature, structure and quality of the family as a social institution.
- 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 Prerequisites: 147 and senior standing. Consideration of home economics as a profession 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 Study of the development, implementation and evaluation of school before and after school and vacation periods.	2 credits l-age child-care programs for
449/549 FLAT PATTERN DESIGN Prerequisite: 123. Theory and experience in clothing design using fla	<i>3 credits</i> t pattern techniques.
450 DEMONSTRATION TECHNIQUES	2 credits

Prerequisite: major only. Provides practical experience in organization and presentation of demonstrations. Emphasis on competencies in coordination of materials, motion and speech in presentation. 4 credits

## 451/551 CHILD IN THE HOSPITAL

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: ESTABLISHING AND SUPERVISING 3 credits A CHILD-LIFE PROGRAM

Prerequisite: 451/551. Explores procedures for implementing and setting up child-life programs; critical analysis of currently functioning program.

#### 458 OFFICE DESIGN

Prerequisites: 158, 258, 333, 334; 7100;491. Comprehensive study of the essential principles of planning and designing the modern integrated office.

## 459 SENIOR DESIGN SYNTHESIS

Prerequisites: 158, 258, 332, 333, 334, 335, 2940:250. A comprehensive study of insitution design with participation in a wide range of real-world design problems.

### 460/560 ORGANIZATION AND SUPERVISION OF CHILD CARE CENTERS

3 credits Theory, principles and procedures involved in establishing and operating centers for infants, toddlers, preschool and school-age children.

#### 470/570 THE FOOD INDUSTRY: ANALYSIS AND FIELD STUDY

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

Prerequisties: 333, 433, 458, 2940:250, and 7100:491, 492. Corequisites: 434, 459. The development of the interior design portfolio.

#### 479 THE NCIDO EXAMINATION

Q

Prerequisties: 158, 258, 331, 333, 418, and 2950:250. The course is designed to help candidates prepare for the National Council for for Interior Design Qualification Examination.

#### 480/580 COMMUNITY NUTRITION | LECTURE

Prequisites: 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 offering 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 HOME ECONOMICS

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 dietitians or coordinators.

#### 487/587 SPORTS NUTRITION

Prerequisites: 133; 3100:209; 3150:113 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 practice are explored. Students prepare the application for dietetic internship.
- 490/590 WORKSHOP IN HOME ECONOMICS AND FAMILY ECOLOGY 1-3 credits Prerequisite: at least junior standing. Investigation on current issue or topic in selected areas of home economics and family ecology. May be on off-campus study tour or an on-campus fulltime group meeting.
- 491/591 WORKSHOP IN HOME ECONOMICS AND FAMILY ECOLOGY 1-3 credits Prerequisite: junior standing. Current issues and topics in selected areas of home economics and family ecology. On/off campus or combined.
- 495 INTERNSHIP: GUIDED EXPERIENCES IN CHILD-LIFE PROGRAM 8 credits Prerequisite: 455. A field experience in a child-life program as a child-life specialist at Children's Hospital-Medical Center of Akron.
- 496/596 PARENTING EDUCATION 3 credits Prerequisite: 265, comparable course or permission of instructor. Practical application that r eviews and analyzes various parenting techniques with major emphasis on the evaluation of parent education programs.

#### 497 INTERNSHIP: HOME ECONOMICS

AND FAMILY ECOLOGY

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 SENIOR HONORS PROJECT IN HOME ECONOMICS

1-3 credits

(May be repeated for a total of six credits) Prerequisites: senior standing in Honors Program and ð approval of honors preceptor. Individual study supervised by adviser. Student and preceptor develop goals, objectives and methodology.

# MUSIC

3 credits

3 credits

3 credits

3 credits

3 credits

3 credits

1 credit

1 credit

3 credits

2 credits

1-3 credits

3 credits

1-3 credits

# 7500:

#### 100 FUNDAMENTALS OF MUSIC

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

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

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 F 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 require ment: 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 FOR NON-MUSIC MAJORS 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 I 1 credit Prerequisite: 101, or passing placement test, or permission of instructor. The development of skills in Ear Training, Sight Reading and Rhythm.

#### 142 EAR TRAINING/SIGHT READING II 1 credit Prerequisite: 141 or permission of instructor. Ear Training, Sight Reading and Rhythm Development; includes modulations, chromatic, whole-tone mélodies; asymmetric meters and polyrhythms.

151,2 THEORY I. II 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.

#### 153 BEGINNING EURYTHMICS 2 credits Students will develop rhythmic and musical skills through movement and ear training exercises

following a methodology developed by Emile Jazues-Dalcroze. (Music majors and minors) 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 rnembers providing lectures, recitals and opportunity for practice of various skills necessary for successful music performance

2 credits

2 credits

2 credits

173	NOTATION AND CALLIGRAPHY	2 credits
	Prerequisite: 101. Techniques involved in writing music symbols and their correct place	
	staff paper. Included are specific techniques in orchestral, choral, jazz, popular notation	
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 7510:104 or one semester 7510:104 and equivalent experience as determined by instructor. A discussion of the marching band. Student learns to write complete half-time show, administer marching band program. Required for instrumental music education maiors.

#### 210 JAZZ IMPROVISATION I

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

Prerequisite: 210. Advanced study in principles of jazz composition. 212 THE MUSIC INDUSTRY: A SURVEY OF PRACTICES 2 credits

#### AND OPPORTUNITIES

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

Prerequisite: 142 or permission of instructor. Ear Training, Sight Reading and Rhythm Development; includes two-part dictation, transposition, simple composition.

### 242 EAR TRAINING/SIGHT READING IV

Prerequisite: 241 or permission of instructor. Ear Training, Sight Reading and Rhythm Development, includes dictation in three and four parts; thorough bass and composition.

### 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.

#### 253 ADVANCED EURYTHMICS

Students will enhance rhythmic and musicianship skills through movement and ear training exercises following a methodology developed by Emile Jazues-Dalcroze. (Music majors and minors)

254,5 STRING INSTRUMENT TECHNIQUES I, II 2 credits each (25 clinical hours each) 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.

## 261,2 KEYBOARD HARMONY I, II

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

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 orientation 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

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.

#### 275 FLUTE/DOUBLE REED METHODS

A comprehensive approach to the pedagogy and performance of the flute and double reed instruments for the instrumental music education major in preparation for teaching music.

276 TRUMPET AND FRENCH HORN METHODS 1 credit A comprehensive approach to the performance and pedagogy of the trumpet and French horn for the instrumental music education major in preparation for teaching music.

# 277 CLARINET/SAXOPHONE METHODS

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

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.

# 301 MUSIC APPRECIATION: MUSIC BEFORE 1800

302 MUSIC APPRECIATION: 19TH AND 20TH CENTURIES 2 credits 301 and 302 are designed as electives for non-music major to provide introductory survey of art of music.

#### TECHNIQUES OF STAGE BAND PERFORMANCE AND DIRECTION 307

1-2 credits Prerequisite: 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 experiences.
- 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.

310 JAZZ IMPROVISATION III Prerequisite: 211. Advanced study in the principles of jazz improvisation.	2 credits
311 JAZZ IMPROVISATION IV	2 credits

- 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

2 credits

1 credit

1 credit

2 credits

2 credits

2 credits

2 credits each

1 credit

1 credit

2 credits

2 credits

2 credits each

- 2 credits Prerequisites: 155,161, 252, 262. Techniques of basic research methods; examination of selected music materials; field trips to specialized collections.
- TEACHING GENERAL MUSIC
   2 credits (30 clinical hours, 20 field hours)

   Prerequisites: 141, 142, 155, 241, 242, 252, 262, 297. Introductions to methods, materials, and skills for teaching non-performance music classes, with emphasis on the elementary grades.
   340 TEACHING GENERAL MUSIC
- 341 CURRICULAR INNOVATIONS IN 3 credits (30 clinical hours, 20 field hours) GENERAL MUSIC

Prerequisites: 141, 142, 155, 241, 242, 252, 262, 297, 340. Intensive study of principles, techniques, and materials of Orff, Kodaly, and other current general music methods appropriate for grades K-12. Clinical and field experiences.

- 342 ELEMENTARY INSTRUMENTAL MUSIC 2 credits Prerequisites: 141, 142, 155, 241, 242, 252, 262, 275, 276, 277, 297. This course prepares teachers for developing innovative elementary instrumental programs. Students will survey materials for creative teaching in instrumentall music. Clinical and field experiences.
- 343 SECONDARY INSTRUMENTAL MUSIC 2 credits (30 clinical hours, 20 field hours) Prerequisites: 141, 142, 155, 241, 242, 252, 262, 275, 276, 277, 297, 336, 342. Introduction to procedures for teaching instrumental music at the secondary level as well as principles of secondary instrumental curriculum design. Clinical and field experiences.
- 344 SECONDARY CHORAL MUSIC METHODS AND MATERIALS 3 credits Prerequisite: 297 or instructor permission. 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

A comprehensive approach to the pedagogy and performance of the low brass for the instru-mental music education major in preparation for teaching musicß.

#### 346 FLUTE AND DOUBLE REED METHODS 1 credits A comprehensive approach to the pedagogy and performance of the flute and double reeds for the instrumental music education major in preparation for teaching musicß.

#### 350 WOMEN IN MUSIC 2 credits A historical survey of women's contributions to music and overview of women's position in twentieth-century performance, composition and teaching.

#### 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.

356 MUSIC IN THE TEACHING OF RETARDED AND HANDICAPPED PEOPLE 2 credits Prerequisite: permission of instructor. Study of application of music to needs of the special person in public/private school, clinical settings,

#### 2 credits Prerequisite: knowledge of music rudiments and permission of instructor. Provides student in music education with basic rudiments of guitar playing as related to use in music classrooms.

#### 2 credits Study and practice of conducting 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.

2 credits 358 FUNCTIONAL CLASS GUITAR

# 361 CONDUCTING

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.

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

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

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

Prerequisite: 252. Theory of instrumentation ranging from small ensembles to full band and orchestras.

#### 455/555 ADVANCED CONDUCTING: INSTRUMENTAL 2 credits (30 clinical hours)

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: 361 or equivalent, Conducting techniques to the choral ensemble, including leadership, error detection, tonal development, stylistic accuracy and analysis. One hour lab required.

457 SENIOR RECITAL Permission of applied instructor is required for thios course, which is taken only during the semester of the Senior Recital.

#### 458 PERCUSSION METHODS

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

Prerequisite: permission of instructor. Survey of organ literature of all eras and styles, and of methods of teaching organ, applying principles to literature.

#### 463/563 REPERTOIRE AND PEDAGOGY: STRING INSTRUMENTS

Prerequisite: permission of instructor. Study in depth of the four bowed string instruments, their teaching and close relationship. Despite obvious difference in physical application of cello and bass from violin and viola, methods of bowing, sound production and coloring are closely related. Application of the instruments to solo, chamber and orchestral playing.

#### 467/567 GUITAR PEDAGOGY

Prerequisite: permission of instructor. A systematic analysis of prevailing schools of guitar pedagogy. Sound production physiology, method books and special problems in teaching addressed.

#### 468/568 GUITAR ARRANGING

Prerequisite: permission of instructor. After comparative analyses of selected examples, students make original solo guitar arrangements of works written for other solo instruments and ensembles

#### 469/569 HISTORY AND LITERATURE OF THE GUITAR AND LUTE

Prerequisite: permission of instructor. Study of plucked, fretted, string instruments from the 14th Century to the present: construction, notation, literature and performance practices. Modern editions and recordings evaluated.

#### 471 COUNTERPOINT Prerequisite: permission of instructor. Designed to give student of theory-composition neces sary knowledge and skills for understanding contrapuntal practices and procedures; emphasis

on 20th-Century techniques. 472 ADVANCED ORCHESTRATION 2 credits Prerequisite: 454. Study of techniques of orchestral style as found in major works from class-

## ical orchestra of Haydn and Mozart through modern orchestra of Stravinsky, Bartok, Berg and Schoenberg.

#### 490/590 WORKSHOP IN MUSIC

Prerequisite: permission of instructor. Investigation of topics not offered in regular curriculum. 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 music. Experimental course topics designed and implemented according to student interest. For elective credit only.

#### 492 SENIOR SEMINAR

1 credit Prerequisite: restricted to students enrolled in Student Teaching in Music. For music education majors; certification, contracts, benefits, job market prospects and student teaching experience sharing

#### 497 INDEPENDENT STUDY IN MUSIC

(May be repeated for a total of four credits) Prerequisites: senior standing and permission of department head. Music major only. Independent study under supervision of specially selected faculty members in subject area bearing on student's own goals.

#### SENIOR HONORS PROJECT: MUSIC 498

(May be repeated for a total of six credits) Individually designed project demonstrating scholar ship, analysis, advanced musicianship, research and/or creativity according to student interest. Restricted to University honors music student

# MUSICAL ORGANIZATIONS

# 7510:

2 credits

2 credits

2 credits

0 credits

1 credit

3 credits

3 credits

2 credits

2 credits

2 credits

2 credits

1-3 credits

2 credits

1-2 credits

1-3 credits

- 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 1 credit Membership by audition. Organization devoted to study of orchestral literature. Full-length concerts as well as special University appearances. Major conducted ensemble.
- 104 SYMPHONIC BAND 1 credit
- Membership by audition. The University Symphonic Band is the most select band at the University and performs the most demanding and challenging music available.
- VOCAL CHAMBER ENSEMBLE 1 credit 105 Membership open to those enrolled in applied voice study. Coaching and rehearsal of solo and ensemble literature for voices from operatic, oratorio and lieder repertoires
- 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.

#### STRING ENSEMBLE 107

1 credit Membership by audition. In-depth study of performance of chamber music literature with special emphasis on string guartet and piano trio.

#### OPERA WORKSHOP 1 credit Membership 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. PERCUSSION ENSEMBLE 1 credit

Membership by audition. Study and performance of literature for various percussion groups; develops skill in ensemble performance.

1 credit

110 WIND CHOIR Membership by audition. Study, reading, and performance of major orchestral and serenade

# repertoire for wind instruments.

111 CHAMBER ORCHESTRA 1 credit Membership by audition. Organization designed to study for performance the substantial repertoire for small orchestra. Open to student of advanced ability.

## 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

- 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.
- 116 GUITAR ENSEMBLE 1 credit Membership by audition. Provides experience in conducted ensemble performance for guitarists. Major conducted ensemble.

#### 117 COLLEGIUM MUSICUM 1 credit.

- Prerequisite: permission of instructor. A musical ensemble that performs music written before 1750 on copies of authentic instruments.
- 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.

#### 119 UNIVERSITY CHORAL UNION 1 credit

Membership by audition. Ensemble devoted to study and performance of choral masterworks. Registration for credit open to all students who are not vocal music majors 120 CONCERT CHOIR 1 credit

# Aembership by audition. Highly select mixed choir. Performs classical literature from all periods. Campus, regional, and tour performances. "Major conducted ensemble" for vocal majors.

- UNIVERSITY SINGERS 1 credit Membership by audition. Mixed ensemble devoted to performance of a wide variety of choral literature from classical to popular. "Major conducted ensemble" for vocal majors.
- 122 FRESHMAN CHORALE 1 credit Open to freshman students by audition. Devoted to performance of choral literature and development of vocal/musical skills. "Major conducted ensemble" for vocal majors.

#### 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.

- 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,
- 125 CONCERT BAND 1 credit Membership by audition. This ensemble performs the finbest literature available for concert bands today.

#### 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. BLUE AND GOLD BRASS 1 credit 127
- Membership by audition. The official band for Akron home basketball games. 1 credit

## 128 UNIVERSITY BAND

This ensemble is active during Spring Semester only, and is open to all members of the University community.

#### 129 BLUE AND GOLD BRASS II

Membership by audition. The official band for Akron home ladies basketball games.

### 421/521 GUITAR CHAMBER MUSIC

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:

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.

### 021-69 APPLIED MUSIC FOR NONMAJORS

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.

PERCUSSION	037	OBOE/ENGLISH HORN
CLASSICAL GUITAR	038	CLARINET/BASS CLARINET
HARP	039	BASSOON/CONTRABASSOON
VOICE	040	SAXOPHONE
PIANO	041	HARPSICHORD
ORGAN	042	COMPOSITION
VIOLIN	061	JAZZ PERCUSSION
VIOLA	062	JAZZ GUITAR
CELLO	063	JAZZ ELECTRIC BASS
STRING BASS	064	JAZZ PIANO
TRUMPET/CORNET	065	JAZZ TRUMPET
FRENCH HORN	066	JAZZ TROMBONE
TROMBONE	067	JAZZ SAXOPHONE
BARITONE	068	JAZZ COMPOSITION
TUBA	069	JAZZ VOCAL STYLES
FLUTE/PICCOLO		
	CLASSICAL GUITAR HARP VOICE PIANO ORGAN VIOLIN VIOLA CELLO STRING BASS TRUMPET/CORNET FRENCH HORN TROMBONE BARITONE TUBA	CLASSICAL GUITAR038HARP039VOICE040PIANO041ORGAN042VIOLIN061VIOLA062CELLO063STRING BASS064TRUMPET/CORNET065FRENCH HORN066TROMBONE067BARITONE068TUBA069

#### 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.

# 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
- 136-236-336-436/536 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

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 stud ant 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:

1 credit

1 credit

2-4 credits each

2 or 4 credits each

- 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 OBAL 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 Presents 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 201 NEWS WRITING 3 credits Prerequisite: ability to type. Writing of news stories; applying theory through discussions, illustrative material; actual writing for publication. 206 FEATURE WRITING 3 credits Prerequisite: 201. Short newspaper and magazine articles, preparation of articles for publication, human interest situations, extensive writing with class discussion. 225 LISTENING 1 credit 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. 227 NONVERBAL COMMUNICATION 3 credits Focused study of the principal aspects of nonverbal communication in public, group and interpersonal settings. 230 WZIP-FM<sup>4</sup> 1 credit 231 FORENSICS\* 1 credit 232 BUCHTELITE\* 1 credit 233 TEL-BUCH\* 1 credit 235 INTERPERSONAL COMMUNICATION 3 credits Theory and practice in interpersonal communication concepts and principles. Special topics in communication apprehension, assertive communication, communication dyads and triads, and transactional communication. 245 ARGUMENTATION 3 credits Study of process of developing, presenting and defending inferences and arguments in oral communication setting. Includes study and practice of evidence, reasoning, case construction, refutation and rebuttal. 252 PERSUASION 3 credits Emphasis on understanding persuasion theory and practice. Includes information analysis of motivational appeals and introduction to propaganda analysis. 270 VOICE TRAINING FOR MEDIA 3 credits Safe and effective uses of the vocal instrument in its specific application to radio, television and films. 280 MEDIA PRODUCTION TECHNIQUES 3 credits Introduction to production techniques used in the mass communication covers sound, image, lighting, fundamentals of conveying messages on slide, film and video. 282 RADIO PRODUCTION 3 credits Study of radio production techniques and the functional operation of AM and FM radio stations. Includes practical production experience in studio. 283 TELEVISION PRODUCTION 3 credits Prerequisite: 280. Function, structure and influence of television as communication medium with practical production experience in studio. 301 ADVANCED NEWS WRITING 3 credits Prerequisite: 201. Advanced course in writing and editing news, features and analysis for print
- media. Behavioral approach to communication of information and ideas.
  302 BROADCAST NEWSWRITING 3 credits
  Prerequisites: 201, 280. The course is designed to teach students how to write, prepare, and
  deliver broadcast news copy for radio and television.

\* Total repeats not to exceed eight credits.

(Note: Students being paid salaries from Student Activity Funds are not eligible for credit.)

303	PUBLIC RELATIONS WRITING 3 cre Prerequisites: 201, ability to type. Introduction of writing skills required by public relations pu tioners emphasizing different approaches for specific publics and specific media.		MED Preread
304	EDITING 3 cre Prerequisite: 201. Copyreading, headline writing, proofreading, makeup, type and typogra printing machines and processes, newspaper methods and systems.		appe / <b>508 (</b> Stud
205	printing machines and processes, newspaper methods and systems. MAGAZINE WRITING 3 cre	dite	deci
306	Prerequisites: 201, 206. An advanced writing course designed to develop the special researching, reporting, and writing skills needed in consumer and specialized business m zines today.	lized 410 laga-	JOU This inclu
307	COMMERCIAL ELECTRONIC PUBLISHING 3 cre Prerequisite: 201. Explore basic principles of magazine publishing in its broad definition, lay type and typography, paint production of magazines.	ans	/535 ( Prer mun subo
309	PUBLIC RELATIONS PUBLICATIONS 3 cree Prerequisites: 201 and 303. Preparation of publications used as communication tools in p relations, advertising and organizations. Emphasis upon design, layout and technology.		/536 / Prer catio
325	INTERCULTURAL COMMUNICATION 3 cm Study of effect on oral communication process of existence of cultural barriers. Includes stud verbal and nonverbal communication in transracial, informal international and diplomatic com- nicative settings.	ty of 437	tion TRA Prer catio
344	GROUP DECISION MAKING 3 cre		met
245	Study of communication and decision making in small groups. Practice in techniques of g decision-making. Introduction to theory of group communication. BUSINESS AND PROFESSIONAL SPEAKING 3 cre	455	(Mar dent
340	Prerequisite: 7600:105 or 106. Practical improvement in speaking skills used in t ness settings.	ousi-	pern
346	ADVANCED PUBLIC SPEAKING 3 cre		(May nalis
	Prerequisite: 7600:105 or 106. Theory and practice of public speaking: audience anal advanced methods for organizing persuasive speeches; techniques of research, style, and e ery; professional speech writing; extensive speaking practice.	deliv-	for c
355		edits	Grou
	Discussion and analysis of the Constitution's free speech guarantee; contemporary issue freedom of communication; role of the media in free speech issues.	es in 457	/557
362	VIDEO CAMERA AND RECORDING 3 cm Prerequisite: 280. Principles of electronic image recording; studio and field camera opera	edits	Surv histo theii
	studio and field location lighting practice.		/562
368	BASIC AUDIO AND VIDEO EDITING 3 cm Prerequisite: 280. Basic audio and video editing theory and practice. Introduction to A/B roll computerized editing systems.		Prer effe /564 (
375		edits	Prer
	Prerequisite: 102 or permission. Study of technological innovation and change in elect media. Evaluation of communication policy issues and the impact of technological chang electronic media. Evaluation of communication policy issues and the impact of technolo change on consumers and industries.	ge in 🚜	scrip /568 Prer
383	-	edits 470	The ANA
	Prerequisite: 283 and permission. Television production operations in a studio environm Practice producing and directing. Studio equipment operation. Lab fee.	nent. 470	Iden ories
384	COMMUNICATION RESEARCH 3 cm Prerequisites: 102, 115. Fundamental concepts and methods of survey research, and the a	edits appli- 471	/571
	cation and interpretation of survey data in communication and in media operations.		Stuo rhet
385	AMERICAN FILM HISTORY: THE BEGINNING TO 1945 3 cm Acquaints undergraduate student with historical developments of film and film concepts; with films of 1945.	edits 480 ends	(Ma 2.5
386	AMERICAN FILM HISTORY: 1945 TO THE PRESENT • 3 cm Continuation of student's survey of film history and film concepts begun in 385.	edits	train is to
387	RADIO AND TV WRITING 3 cm Practical application of script writing principles and techniques used in writing scripts for mercials, announcements, comedy/drama, news and documentaries.		REG Con
388	HISTORY AND STRUCTURE OF BROADCASTING 3 cm Growth of broadcasting in America; historical evolution of approaches to programming, n and financing of broadcasting operations.		(Mar appr
395		edits struc- <b>486</b>	thes BRC
396	ture and function of educational and commercial radio broadcasting.	edits	Prer and
	Examines the operations and programming processes of a broadcast station; program philosophies, broadcast schedules, feature and syndication acquisition, local productions, is of staffing and funding.	ming <b>490</b>	/ <b>590</b> (Ma lar p
400	7500 HISTORY OF JOURNALISM IN AMERICA 3 cr. A review and analysis of the historical evolution of journalism in America, focusing primari newspapers, magazines, radio, television.		<b>/593</b> Prer editi
403	PUBLIC RELATIONS STRATEGIES 3 cn. Prerequisites: 201, 303, and 309. Selected communication theories used to analyze and in	edits nple-	

Prerequisites: 201, 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.

A COPYWRITING 3 credits equisite: 309. Selected communication theories and research techniques used to plan, write analyze commercial messages. Emphasis will be placed on selection of audience, medium, al, writing style and evaluation of efforts. NOMEN, MINORITIES AND NEWS 3 credits y of images of women in U.S. news, along with the power women and minorities have as sion-makers in the news industry. RNALISM MANAGEMENT 3 credits course is designed to educate students in the management of journalistic operations, iding the magazine and newspaper industries. COMMUNICATION IN ORGANIZATIONS 3 credits equisite: 345 or permission. Overview of theories and approaches for understanding comication flow and practices in organizations, including interdepartmental, networks, superiorordinate, formal and informal communication. ANALYZING ORGANIZATIONAL COMMUNICATION 3 credits equisites: 344, 384 and 435. or permission. Methodology for in-depth analysis and applion of communication in organizations; team building; conflict management, communicaflow. Individual and group projects; simulations. INING METHODS IN COMMUNICATION 3 credits equisite: 345 or permission. Principles and concepts in the design and delivery of communion training programs; integration of theory and methodology; presentation skills; matching nods and learner needs. EPENDENT STUDY 1-12 credits be repeated for a total of 12 credits) Prerequisite: permission of faculty. Directed indepenreadings, research, projects and productions. Written proposal must be submitted before nission is granted. Appropriate documentation of work required. CIAL TOPICS IN COMMUNICATION 3 credits y be repeated for a total of nine credits) Special interest topics in mass communication, jourm, or communication, supplementing courses listed in University Bulletin. See department current listing of offerings. THEORY OF GROUP PROCESSES 3 credits up communication theory and conference leadership as applied to individual projects and inar reports. PUBLIC SPEAKING IN AMERICA 3 credits ey and critical analysis of major speakers, speeches and speech movements in American ry. Examines how style and content of American speaking influenced events and reflected times ADVANCED MEDIA WRITING 3 credits equisites: 201, 280, or equivalent. Analysis of production problems and design and their ct on writing scripts for electronic production. CORPORATE VIDEO MANAGEMENT 3 credits equisite: 463. Budgeting for individual productions and production facilities, scheduling, ot breakdown, management of corporate and health service media facilities. ADVANCED AUIDO AND VIDEO EDITING 3 credits equisite: 280, 368, or equivalent. Advanced computerized multitrack audio and video editing. bry and practice of multi-track sound mix for video productions. LYSIS OF PUBLIC DISCOURSE 3 credits tifies principal textual and contextual elements of public discourse and presents various thes and models to be applied in studying rhetorical acts. THEORIES OF RHETORIC 3 credits ty of key figures in history of rhetorical theory, stressing interrelationships among theories of oric, intellectual climates and social climates. MUNICATION INTERNSHIP 1-8 credits y be repeated for a total of eight credits) Prerequisites: 24 credits in departmental courses, overall GPA, and permission. Provides student with supervised experience and on-the-job ing. Written permission must be obtained from the School prior to the term for which credit be received ULATIONS IN MASS MEDIA 3 credits centration on government regulations and self-regulatory bodies in broadcasting, film and media. IOR HONORS PROJECT IN COMMUNICATION 1-6 credits y be repeated for a total of six credits) Prerequisites: senior standing in Honors Program; roval of honors preceptor. Independent study project leading to completion of senior honors is or other original work ADCAST SALES AND MANAGEMENT 3 credits equisite: 384. Using simulation and case history techniques, this course examines the sales decision-making processes of a broadcast station. COMMUNICATION WORKSHOP 1-3 credits y be repeated for a total of six credits) Group study or group projects investigating a particuhase of media not covered by other courses in curriculum. ELECTRONIC MEDIA PRODUCTION 3 credits equisite: permission. Practical application of writing, directing, management, recording, and ng skills in problems in electronic media production.

3 credits

# SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

# 7700:

### 101 BEGINNING SIGN LANGUAGE I

Introduction to manual communication: Vocabulary building; development of fingerspelling skills and expressive/receptive sign language skills.

3 credits

2 credits

4 credits

3 credits

3 credits

- 102 BEGINNING SIGN LANGUAGE II 3 credits Prerequisite: 101. Introduction to manual communication: Vocabulary building; development of fingerspelling skills and expressive/receptive sign language 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 PSYCHO SOCIAL ASPECTS OF DEAFNESS

The effects of deafness on the emotional, social, motor and intellectual development of the individual: the effects of deafness on interpersonal relationships.

- 140 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 INTERMEDIATE SIGN LANGUAGE 3 credits Prerequisite: 102. Vocabulary expansion; emphasis on expressive/receptive communication, fingerspelling, and fluency
- 202 ADVANCED SIGN LANGUAGE 3 credits Prerequisite: 201. Further practice in developing expressive/receptive skills including rhythm, speed, 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 features, 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

3 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.

#### AURAL REHABILITATION 240

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.

#### PRINCIPLES OF AUDIOMETRY 241

Prerequisite: 140. Introduction to psychoacoustic principles which underlie basic audiometric tests; principles of speech audiometry, masking and impedance audiometry.

- OBSERVATION AND CLINICAL METHODS 2 credits Corequisites: 240 or 321 or 330. Introduction to clinical procedures. Analyses of preparation and structure necessary for successful therapy; observation of therapy in different settings.
- 321 ARTICULATORY AND PHONOLOGIC DISORDERS 4 credits Prerequisites: 110, 210. Study of disorders of articulation/phonology, including normal phonological 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 neurodevelopmentall 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

2 credits 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

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 2 credits Prerequisites: 321, 330 and 350. Pre-professional experience where student learns speech-lan-

guage 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 function of language in individual, family and school.

# 440/540 AUGMENTATIVE COMMUNICATION

Prerequisites: 330 or 430/530 or permission of instructor. Overviews augmentative communica-tion systems—candidates, symbol systems, devices, vocabulary, funding. Considers interdisciplinary issues in assessment/intervention

#### 445/545 MULTICULTURAL CONSIDERATIONS FOR AUDIOLOGISTS 2 credits AND SPEECH-LANGUAGE PATHOLOGISTS

Prerequisites: 110 or graduate standingr. This course introduces the multicultural considerations faced by audiologists and speech-language pathologists providing services to families and individuals with communication disorders.

450 ASSESSMENT OF COMMUNICATIVE DISORDERS 3 credits 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.

#### AUDIOLOGY SCREENING PRACTICUM 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 1 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 withschool 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 sys-tems. Covers program requirements and professional/ethical issues imposed by PL 94-142.

- 480 SEMINAR IN SPEECH-LANGUAGE PATHOLOGY AND/OR AUDIOLOGY 2 credits Prerequisite: senior standing. Provides a vehicle for detailed study and discussion of various communicative disorders.
- 481 SPECIAL PROJECTS: 1-3 credits 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 COMMUNICATIVE DISORDERS IN

THE DEVELOPMENTALLY DISABLED 4 credits Theory and current research related to the etiology, diagnosis and remediation of communicative disorders in intellectually and/or neuromotorically delayed children.

- 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:

270 POVERTY IN THE UNITED STATES 3 credits 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.

276 INTRODUCTION TO SOCIAL WELFARE 4 credits 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

3 credits Prerequisite: Social Work major; Corequisite 410. Basic concepts and methods of Generalist social work practice, with an emphasis on understanding and working with individuals

#### 402/502 SOCIAL WORK PRACTICE II

3 credits 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

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.

3 credits

#### 404/504 SOCIAL WORK PRACTICE IV

3 credits Prerequisite: 401, 410, or permission of instructor. Professional social work practice with fami lies 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

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

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

Prerequisites: 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

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

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

Social work perspective on human development across the life cycle. Human diversity approach consistent with the needs of social work students preparing for practice.

# 430/530 HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT II

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.

#### 440/540 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

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

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

#### 451/551 SOCIAL WORK IN CHILD WELFARE

3 credits 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

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

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, theories, 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 1-3 credits 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.

490/590 SOCIAL WORK WORKSHOP 1-4 credits (May be repeated for a total of six credits) Prerequisite: permission of instructor. Group investigation of a particular phase of social work or social welfare not offered by other courses in curriculum

495 FIELD EXPERIENCE IN SOCIAL AGENCY 8 credits (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 1-3 credits

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
- 3

3 credits

3 credits

1 credit

1 credit

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:

#### EXPERIENCING THEATRE 3 credits 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 3 credits 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.
- VOICE AND DICTION 151 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.
- 172 ACTING I 3 credits Introductory fundamentals of acting through the investigation of the body as an instrument for the stage, improvisation and basic scene study
- 205 THEATRE ORGANIZATION AND PRODUCTION MANAGEMENT 3 credits 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
- 262 STAGE MAKEUP 3 credits Theory and practicve 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 theatrical hardware. Laboratory required.
- 271 DIRECTING I 3 credits Emphasizes fundamentals of play directing, including responsibilities of director, stage nomenclature, play selection, character analysis and rehearsals. One-act form emphasized.
- INTRODUCTION TO THEATRE AND FILM 301 3 credits Prerequisite: 3400:210. A survey of creative development in theatre and film. It will cover American and international developments through lecture and viewing of films. For non-majors.
- ADVANCED STAGE COSTUMING 3 credits Prerequisite: 107. Specialized construction techniques for costumes, armor, masks, jewelry, 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

The art and technique of stage lighting design: light plotting, color theory, and optical effects 3 credits

### 371 DIRECTING (I

rerequisites: 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 II

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

Prerequisite: 373. Further in-depth actor training with emphasis on the language and interpretation of classic plays including Shakespeare.

#### SPECIAL TOPICS IN THEATRE ARTS 403

(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 the atre arts, supplementing courses listed in the General Bulletin.

#### 421 MUSICAL THEATRE PRODUCTION

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 3 credits A detailed examination of representative plays of the contemporary theatre with an emphasis on plays of the 1980s and 1990s.

# 480 INDEPENDENT STUDY

Practice, study, and/or research in slected elements of theatre arts and production including 5 preparation and presentation of creative and technological projects.

#### 475/575 ACTING FOR THE MUSICAL THEATRE 3 credits

Prerequisites: permission of instructor. A scene study course in analyzing and performing roles in American musicals. Accompanist provided.

#### 490/590 WORKSHOP IN THEATRE ARTS

(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. 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.

‡ Majors are required to enroll in at least one credit production lab every semester they are in residence.

# DANCE

credit

3 credits

3 credits

1-4 credits

3 credits

1-3 credits

1-3 credits

#### 7900: 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. 119 MODERN I: INTRODUCTION TO MODERN DANCE I 2 credits

- (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: INTRODUCTION TO MODERN DANCE II 2 credits (May be repeated for a total of four credits) Prerequisite: permission. Continuation of 119. Increasing movement vocabulary, muscular strength and coordination of modern dance.
- BALLET I: INTRODUCTION TO BALLET I 2 credits (May be repeated for a total of four credits) Emphasis on body placement, muscular awareness. BALLET II: INTRODUCTION TO BALLET II 2 credits 125
- (May be repeated for a total of four credits) Prerequisite: permission. Continuation of 124. Basic exercises of classical ballet.
- JAZZ DANCE I: INTRODUCTION TO JAZZ DANCE I 130 2 credits Basic jazz dance technique and jazz dance origins
- TAP TECHNIQUE I: INTRODUCTION TO TAP TECHNIQUE I 2 credits 144 Basic tap dance technique and terminology
- BEGINNING TAP STYLES 2 credits Prerequisite: 7900:144 or permission. Refinement of Tap technique and stylistic range of Tap dance.
- VIEWING DANCE 200 3 credits Prerequisite: 3400:210. To explore dance as an art form through experiential activities, dance lit-
- erature, film and live performance for non-dance majors. 219 MODERN III: INTERMEDIATE BEGINNER A 2 credits (May be repeated for a total of four credits) Prerequisite: Permission, Continuation of 120.
- Introduction to current modern dance styles and techniques. MODERN IV: INTERMEDIATE BEGINNER B 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. BALLET III: INTERMEDIATE BEGINNER A 224 3 credits
- (May be repeated for a total of six credits) Prerequisite: Permission. Continuation of 125. Emphasis on barre and developing strength.
- 225 BALLET IV: INTERMEDIATE BEGINNER B 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.
- 230 JAZZ DANCE II: INTRODUCTION TO JAZZ DANCE II 2 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) Prerequisite: Permission. 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:

- CLASSICAL BALLET ENSEMBLE\*\* 101 1 credit By audition only. Participation in rehearsal and preparation for public performance of classical ballet repertoire.
- 102 CHARACTER BALLET ENSEMBLE\*\* 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.
- OPERA DANCE ENSEMBLE\*\* 106 1 credit By audition only. Participation in rehearsal and preparation for public performance of dance sequences in an opera
- EXPERIMENTAL DANCE ENSEMBLE\*\* 1 credit By audition only. Participation in rehearsal and preparation for public performance of avant-garde dances.

\*\* Course may be repeated for credit. Total credit for graduation may not exceed 12 credits. All courses are by audition only

<sup>\*</sup> Required of all theatre majors

- 108 CHOREOGRAPHER'S WORKSHOP\*\* 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.

1 credit

2 credits

2 credits

2 credits

- 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.
- TOURING ENSEMBLE\*\* 1 credit 111 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 0 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.

# DANCE PERFORMANCE

# 7920:

116 PHYSICAL ANALYSIS FOR DANCE I

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 2 credits Prerequisite: 116. Support systems, conditioning injury prevention, rehabilitation, nutrition
- 122 BALLET V: INTERMEDIATE PRINCIPLES 5 credits (May be repeated for a total of 20 credits) Prerequisite: Permission. Theory, vocabulary, structure, placement. Concurrent enrollment in pointe class recommended.
- 141 POINTE I 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.
- 222 BALLET VI: ADVANCED INTERMEDIATE TECHNIQUE 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: INTERMEDIATE MODERN DANCE A 3 credits (May be repeated for a total of six credits) Prerequisite: Permission. The intermediate study of modern dance styles and techniques through the application of more complex movement theories, rhythmic patterns and improvisational studies
- 229 MODERN VI: INTERMEDIATE MODERN DANCE B 3 credits (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

2 credits (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 INTERMEDIATE TAP STYLES 2 credits Prerequisite: 145 or permission. 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

Prerequisite: Permission of the instructor. Theoretical and practical introduction to principles of choreography: space, time, energy

- CHOREOGRAPHY II 2 credits Prerequisite: 316 and permission. Continuation of 316. Emphasis on musical choices and find ing movement specific to the individual choreographer.
- 320 DANCE NOTATION
- 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: PRINCIPLES OF ADVANCED TECHNIQUE 5 credits (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 VII: ADVANCED MODERN DANCE A 3 credits (May be repeated for a total of six credits) Prerequisite: permission from instructor. Refinement and and stylization of modern techniques for performance for modern dance.
- \*\* Course may be repeated for credit. Total credit for graduation may not exceed 12 credits. All courses are by audition only

- 329 MODERN VIII: ADVANCED MODERN DANCE B 3 credits (May be repeated for a total of six credits) Prerequisite: permission. Application of advanced modern dance technique and styles. 334 PAS DE DEUX I 2 credits (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 POINTE III 2 credits (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 342 MEN'S CLASS 2 credits (May be repeated for a total of eight credits.) Prerequisites: 122, permission. A classical ballet class focusing on tour de force and virtuoso movements specific to the male dancer. 347 ADVANCED TAP STYLES 2 credits Prerequisite: 7920:246 or permission. Advanced tap combinations, styles, routines. JAZZ DANCE STYLES 2 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: ADVANCED TECHNIQUE AND PERFORMANCE STYLES 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 1661 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. 434 PAS DE DEUX II 2 credits (May be repeated for a total of six credits) Prerequisites: 334, permission; concurrent enrollment in a pointe class. Provides the student with advanced understanding and practice of pas de deux ADVANCED JAZZ DANCE STYLES 2 credits Prerequisite: 351 or placement audition. Advanced jazz dance technique and styles for the professional cancer. 461 SEMINAR AND FIELD EXPERIENCE IN DANCE EDUCATION 2 credits Prerequisite: 362. Supervised observation and teaching experience in dance education in the 7 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 enroliment in 7910:108 Choreographers' Workshop. 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
  - 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. 3

# **College of** Nursing

# COOPERATIVE EDUCATION

# 8000:

301 COOPERATIVE EDUCATION 0 credits (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.

- INTRODUCTION TO BACCALAUREATE NURSING 101 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.
- COLLEGE OF NURSING ORIENTATION 205 1 credit Prerequisite: Admission to the College. Presentation of test-taking, time/stress management, college policies, financial aid, learning resources, preparing papers, programs of study, study/support groups, academic advisement, and computer skills.
- 210 BASIC CONCEPTS OF NURSING 4 credits Prerequisite: Admission to the College. Clinical course on the basic theories and concepts that novice nursing students need in order to care for healthy clients across the life span.
- 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.
- 220 FOUNDATIONS OF NURSING PRACTICE 5 credits Prerequisite: Admission to the College. Clinical course which assists students to perform psychosocial and psychomotor skills with long-term care clients.
- 225 HEALTH ASSESSMENT 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

2 credits 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

3 credits 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.

#### 336 CONCEPTS OF PROFESSIONAL NURSING

4 credits Prerequisite: Admission to the RN/BSN or LPN/BSN Sequences. Introduces the LPN and RN to baccalaureate nursing. Focuses on the relationship of concepts and theories to the role of the professional nurse. Offered Summer only.

5 credits

5 credits

5 credits

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#### 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

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.

#### 370 NURSING CARE OF OLDER ADULTS

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.

#### 380 MENTAL HEALTH NURSING

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 5 credits Prerequisite: 336. Clinical course focusing on health care concepts across the life span with emphasis on health promotion.

- 409 INTERNATIONAL NURSING 3 credits Prerequisite: Junior standing or Registered Nurse. Summer Elective course. 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 3 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 3 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.
- NURSING OF COMMUNITIES 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.
- 445 NURSING LEADERSHIP FOR CLIENT CARE 2 credits Prerequisite: Satisfactory completion of all Junior level nursing courses. Leadership and management concepts within the dynamic health care setting. Classical and contemporary approaches are explored with application in senior nursing courses
- 446 PROFESSIONAL NURSING LEADERSHIP 5 credits Prerequisite: 405, 440. Provides the RN/BSN student with the theoretical foundation for leader ship and management in a dynamic health care setting. Contemporary and classical approaches will be explored.
- 450 SENIOR NURSING PRACTICUM 3 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. An indi vidualized learning contract will be developed.
- 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.
- ISSUES AND ROLES OF THE PROFESSION OF NURSING 3 credits 460 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 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 presenta tion of an original investigation of a significant topic or creative work which must meet high stan-R dards 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 resocialization process of professional nurses. Relates the resocialization of the nurse to leadership and management roles

#### 489/589 SPECIAL TOPICS: 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. 493/593 WORKSHOPS 1-4 credits (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 Associate Dean, Undergraduate Programs and good academic stand ing. Provides opportunity to develop greater depth in an area of nursing through methodology specific to discipline of nursing.

# College of **Polymer Science** and Polymer Engineering

# INTERDISCIPLINARY COURSES: POLYMER SCIENCE AND POLYMER ENGINEERING

# 9821:

- 281 POLYMER SCIENCE FOR ENGINEERS 2 Credits Prerequisites: Basic chemistry courses 3150:132 and 133. 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: 9821:281, 3150:133, 3650:292. Fundamental understanding of solid structure, crystallography and morphology, processed polymers, co-polymers and their blends.

# POLYMER ENGINEERING

# 9841:

- 321 POLYMER FLUID MECHANICS 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 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 Prerequisites: 4200:32 or 4300:341 or 4600:310 or permission. Molding methods to manufacture polymeric products. Machinery, materials, molds, equipment, computer-aided design.

- 450 ENGINEERING PROPERTIES OF POLYMERS 3 credits Prerequisites: 4600:315, 336 and 380 or permission. Introductory course to engineering properties and processing of polymers. Analysis of mechanical tests of polymers in the glassy, rubbery, and fluid states. Product design. Concepts of rheology, rheometry and polymer processing,
- 451 POLYMER ENGINEERING LABORATORY 2 Credits Prerequisite: 321. Corequisite: 422. Laboratory experiments on the rheological characterization of polymer melts, fabrication of engineering products, structural investigation of polymeric parts.
- SPECIAL TOPICS IN POLYMER ENGINEERING 2 credits Prerequisite: Senior standing, permission of instructor. Special topics intended for undergraduate seniors in polymer engineering.

#### 499 POLYMER ENGINEERING PROJECT

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.
- SPECIAL PROJECTS IN POLYMER SCIENCE 303 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 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 INTRODUCTION TO PLASTICS 3 credits Prerequisite: 401. An introduction to the science and technology of plastic materials. Lecture and laboratory
- 407 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 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.

2 credits

412/512 MOLECULAR STRUCTURE AND PHYSICAL PROPERTIES OF POLYMERS II

3 Credits

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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.

413/513 MOLECULAR STRUCTURE AND PHYSICAL 2 credits **PROPERTIES OF POLYMERS III** 

Prerequisite: 412/512 or permission. Deformation of bounded rubber units, the correspondence principle, time-dependent failure, mechanical 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.
- 415 MOLECULAR STRUCTURE AND PHYSICAL 2 credits PROPERTIES OF POLYMERS LABORATORY

Prerequisite: 413 or permission. Laboratory experiments involving the topics covered in the prerequisite course

416 EXTRUSION AND MOLDING 3 credits Prerequisite: 302 or permission. Introduction of extrusion and molding processes for plastics. Theory of extrusion and molding processes and their application to the types of materials used, variations in equipment and the processing characteristics involved. Lecture and laboratory

417 ADHESIVES AND COATING 2 credits Prerequisite: 302 or permission. This course involves the fundamentals of adhesives and coatings technology. The chemical and physical properties of adhesives and coatings will be discussed and will be related to molecular structure. Specific materials, applications and testing procedures will be discussed and practical experience gained by experimentation in the laboratory.

418 COMPOSITES, CELLULAR STRUCTURES AND TIRE TECHNOLOGY 4 credits Prerequisite: 302 or permission. The importance and science of composite structures will be taught and applied to the technology of foam and tire manufacture. Laboratory experiments will be used to illustrate the principles involved.

#### 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

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1997–1998 Undergraduate Bulletin



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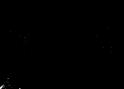
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STATES SAL

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May 1997

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# September 1997

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# **Emeritus Faculty**

#### September 1997

- 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., Washbum 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 Buffalo, 1953; LL.D., The University of Akron, 1968; D.S.Sc., 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.
- HOBART W. ADAMS, Professor Emeritus of Accounting (1969) (Ret. 1993) B.S.Ed., Kent State University; M.B.A., D.B.A., Indiana University at Bloomington, 1967.
- 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.DORIS S. ALDRICH, Associate Professor Emeritus of Home Economics (1973) (Ret. December
- 1988) B.S., M.Ed., Kent State University, 1972. 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.,
- ABDUL AMER ALROBATY, 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.

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.
- 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.
- 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.
- HOWARD R. BALDWIN, Associate Vice President for Administrative Services Emeritus (July 1967) (Ret. December 1989) B.P.S.M., Mount Union College; M.Ed., Kent State University, 1960.
- 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.
- CHARLES M. BARRESI, Professor Emeritus of Sociology (1966) (Ret. December 1989) B.A., M.A., University of Buffalo; Ph.D., State University of New York at Buffalo, 1965.
- MARIAN L. BAUER, Associate Professor Emeritus of Nursing (1969) (Ret. 1982) B.A., Maryville College; M.N., Western Reserve University, 1941; R.N.
- IRENE C. BEAR, Professor Emeritus of Home Economics (1944) (Ret. 1968) B.S., Illinois Wesleyan University; M.A., Texas State College for Women, 1937.
- 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.
- CLARE BEDILLION, Associate Professor Emeritus in the Community and Technical College (1968) (Ret. 1975) B.A., Woman's College of Georgia; M.A., New York University; Ph.D., University of Michigan. 1974.
- HAROLD BELOFSKY, Associate Professor Emeritus of Mechanical Technology (1987) (Ret. 1996) B.S.M.E., Cooper Union; M.M.E., New York University, 1952.
- 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. BERQUIST, Associate Professor Emeritus of Accounting (1968) (Ret. December 1988) B.S. B.A., Youngstown State University, M.Acct., The Ohio State University, 1964.
- 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.
- VINCENT J. BIONDO, Assistant Professor Emeritus of Education (1968) (Ret. 1976) B.A., M.A., M.A.Ed., The University of Akron, 1957.
- DONALD F. BIRDSELL, Professor Emeritus of Education (1977) (Ret. 1988) B.A., Luther College; M.A., University of Minnesota; Ph.D., University of Iowa, 1965.
- 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.
- 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.
- ALLEN M. BOYER, Member of the General Faculty Emeritus (November 1966) (Ret. 1982) B.A., The University of Akron, 1942.
- 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.

- 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.
- 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.
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- ALBERT C. BUXTON, Associate Professor Emeritus of Electronic Technology (January 1975) (Ret. 1986) B.S.E.E., M.S.E.E., Tulane University, 1951.
- 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.
- 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 Emeritus 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.
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- CAROL A. CARTER, Academic Adviser Emeritus (January 1987) (Ret. December 1995) B.S.Ed., Otterbein College; M.S.Ed., The University of Akron, 1984.
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- YONG H. CHO, Professor Emeritus of Urban Studies (1967) (Ret. August 1989) B.A., Seoul National University (Korea); M.P.A., Ph.D., Syracuse University, 1965.
- CRAIG M. CHRISTENSEN, Instructor Emeritus of Marketing (1991) (Ret. July 1997) B.S., University of Illinois; Ph.D., Cornell University, 1961.
- HUGH G. CHRISTMAN, Professor Emeritus of Education (1970) (Ret. December 1989) B.S., Miami University; M.Ed., Ed.D., Pennsylvania State University, 1970.
- 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.
- BLANCH E. 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.
- 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.
- KENNETH COCHRANE, Professor Emeritus of Physical Education (1948) (Ret. 1973) B.E., The University of Akron; M.Ed., University of Pittsburgh, 1941.
- 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.
- 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.
- 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.
- 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.
- CONSTANTIN DIMITRIU, Assistant Professor Emeritus of Classics (May 1970) (Ret. 1986) Baccalaureate, University of Cluj, Romania; M.A., National University of Bucuresti; M.S.L.S., Case Western Reserve University, 1969.
- 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.
- JAMES E. DOVERSPIKE, Associate Professor Emeritus of Psychology (1984) (Ret. 1994) B.S., John Carroll University; M.S., University of Wisconsin at Oshkosh; Ph.D., The University of Akron, 1983.
- 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.
- 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.
- 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 of Modern Languages (1967) (Ret. 1994) B.A., Harvard University; M.A., Cornell University, 1965.
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# **Full-Time Teaching Faculty**

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# Mathematical Sciences

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- PROFESSORS: William H. Beyer, Dale Borowiak, David C. Buchthal, Douglas E. Cameron, Subramaniya I. Hariharan, Lala B. Krishna, Chand Midha, Dale H. Mugler, Timothy S. Norfolk, Judith A. Palagallo, Wolfgang Pelz, Thomas E. Price, Jr., Antonio R. Quesada, , Gerald W. Young
- ASSOCIATE PROFESSORS: Abdullah A. Abonamah, Philip R. Baldwin, Chien-Chung Chan, John L. Donaldson, Ali Haijafar, Kevin L. Kreider, Neal C. Raber, Richard P. Steiner, Donald P. Story, Hui-Qian Tan.
- ASSISTANT PROFESSORS: Curtis B. Clemons, Josefina P. de los Reyes, Richard L. Einsporn, Laura K. Gross, John A. Heminger, Adam H. Lewenberg, Kathy J. Liszka, Timothy S. Margush, Wai Yin Mok, Linda M. Saliga, James T. Sasaki, David B. Stark, Ethel R. Wheland, Yingcai T. Xiao.

#### Modern Languages

CHAIR: Professor Helen L. Ryan-Ranson.

PROFESSOR: Hugo Lijeron.

ASSOCIATE PROFESSORS: Robert Fields Jeantet, William I. Miller.

ASSISTANT PROFESSORS: Maria Adamowicz-Hariasz, Parizad T. Dejbord-Sawan, Jeanne-Helen Roy, Susan Schunk, Maria Zanetta.

# Philosophy

CHAIR: Professor Howard M. DuCharme PROFESSOR: William E. McMahon. ASSOCIATE PROFESSORS: James H. Buchanan. ASSISTANT PROFESSORS: Priscilla Sakezles, Eric Sotnak.

#### Physics

CHAIR: Distinguished Professor Ernst D. von Meerwall. PROFESSORS: Harry T. Chu, Roger B. Creel, C. Frank Griffin, Purushottam Das Gujrati, Peter N. Henriksen, II.

ASSOCIATE PROFESSORS: Philip R. Baldwin, Robert R. Mallik. ASSISTANT PROFESSORS: Rex D. Ramsier, Gregory M. Townsend.

#### **Political Science**

CHAIR: Professor David J. Louscher.

PROFESSORS: John C. Green, Yogendra Malik, Jesse F. Marquette, James C. Sperling. ASSOCIATE PROFESSORS: Stephen C. Brooks, Richard K. Franklin, Katherine Hinckley, Nancy E. Marion Marian A. Miller

ASSISTANT PROFESSORS: Christopher P. Banks, William T. Lyons.

#### Psychology

CHAIR: Professor Robert G. Lord. PROFESSORS: Gerald V. Barrett, Dennis Doverspike, Martin D. Murphy, John A. Popplestone, Harvey L. Sterns, Linda M. Subich.

ASSOCIATE PROFESSORS: Paul E. Levy, Michael A. McDaniel, Raymond Sanders, Charles A. Waehle

ASSISTANT PROFESSORS: Ann R. Fischer, Rosalie Hall, Susan I. Hardin, Karen F. Kopera-Frye, Lauren S. Seifert, Andrea F. Snell, Daniel J. Svyantek, David M. Tokar.

#### Public Administration and Urban Studies

CHAIR: Professor Nancy K. Grant.

PROFESSORS: Terry F. Buss, Frank Costa, Ashok Dutt, Gary M. Gappert, Richard E. Klosterman, James L. Shanahan.

ASSOCIATE PROFESSORS: Peter J. Leahy, Douglas V. Shaw. ASSISTANT PROFESSORS: Francois K. Doamekpor, Cheryl S. King.

### Sociology

ACTING CHAIR: Professor R. Frank Falk.

PROFESSORS: Huey-Tsyh Chen, T. Neal Garland, Richard J. Gigliotti, Gay C. Kitson, McKee J. McClendon, Brian F. Pendleton, Richard C. Stephens, Mark B. Tausig.

ASSOCIATE PROFESSORS: Rebecca J. Erickson, Kathryn M. Feltey, Rudy Fenwick, Donald E. Stull, Jr

ASSISTANT PROFESSORS: Cheryl Elman, Celia C. Lo.

# College of Engineering

### **Biomedical Engineering**

CHAIR: Associate Professor Mary C. Verstraete

PROFESSORS: Mamerto L. Chu, Daniel L. Ely, Irving F. Miller, Dale H. Mugler, Narender P. Reddy, Stanley E. Rittgers, Max S. Willis, Jr.

ASSOCIATE PROFESSORS: Glen O. Njus, Daniel B. Sheffer, Bruce C. Taylor

ASSISTANT PROFESSORS: Ted A. Conway, George C. Giakos, Donna B. Richardson.

### Chemical Engineering

CHAIR: Associate Professor Lawrence G. Focht.

PROFESSORS: Steven S. Chuang, Sunggyu Lee, Max S. Willis, Jr.

ASSOCIATE PROFESSORS: George G. Chase, Harry M. Cheung, J. Richard Elliott, Jr., Lu-Kwang Ju, Helen K. Qammar.

#### Civil Engineering

CHAIR: Professor Robert Y. Liang. PROFESSORS: David N. Robinson, Atef F. Saleeb. ASSOCIATE PROFESSORS: William B. Arbuckle, Wieslaw K. Binienda. ASSISTANT PROFESSORS: Teresa J. Cutright, Craig C. Menzemer, Christopher M. Miller, Allen

L. Sehn, Paul D. Simpson, Yi Ping, Robert S. Zobel.

# Electrical Engineering

#### CHAIR: Professor Nathan Ida

PROFESSORS: Chiou-Shiun Chen, Subramaniya I. Hariharan, Torn Hartley. ASSOCIATE PROFESSORS: Jose Alexis De Abreu-Garcia, John Durkin, Malik E. Elbuluk, James Grover, Bruce C. Taylor, Robert J. Veillette, John T. Welch, Jr. ASSISTANT PROFESSORS: Iqbal Husain, Douglas R. Smith, Igor A. Tsukerman.

#### Mechanical Engineering

CHAIR: Professor Benjamin T. F. Chung. DISTINGUISHED PROFESSOR: Joseph Padovan. PROFESSORS: Celal Batur, Minel J. Braun, Fred Katp-Chung Choy, Mamerto L. Chu, Jr., Lala B. Krishna, Michael Savage, Rudolph J. Scavuzzo, Jr., Tirumalai S. Srivatsan.

ASSOCIATE PROFESSORS: Philip R. Baldwin, Chien-Chung Chan, Ted A. Conway, Jerry E. Drummond, Richard J. Gross, S. Graham, Kelly, III, Paul C. Lam, Yueh-Jaw A. Lin.

ASSISTANT PROFESSORS: Michelle S. Hoo Fatt, Steven P. Rooke, Donald D. Quinn.

# **College of Education**

# **Counseling and Special Education**

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### **Curricular and Instructional Studies**

CHAIR: Professor Leonora B. Cohen.

PROFESSORS: Larry G. Bradley, Susan J. Daniels, Harold M. Foster, William E. Klingele, Walter S. Smith, Stephen J. Thompson, Walter H. Yoder.

ASSOCIATE PROFESSORS: Susan G. Colville-Hall, Robert K. Eley, Julia A. Lindsey, Barbara G. Moss, Carole H. Newman, Susan J. Olson, Lynn A. Smolen.

ASSISTANT PROFESSORS: George W. Ebert, Lynne M. Pachnowski.

### Educational Foundations and Leadership

ACTING CHAIR: Associate Professor James T. Hardy.

PROFESSORS: M. Kay Alderman, Charles M. Dye, John J. Hirschbuhl, Edward B. Lasher, Isadore Newman, Rita S. Saslaw, Frederick M. Schulz.

ASSOCIATE PROFESSORS: Robert A. Dubick, Suzanne C. MacDonald.

ASSISTANT PROFESSORS: Dianne A. Brown-Wright, Fred M. Carr, Susan G. Clark, Virginia Doolittle, Catherine C. Knight, Sharon D. Kruse, Huey-Li Li, Susan N. Kushner, Ronald C. McClendon, John A. Weaver.

# Physical Education and Health Education

CHAIR: Associate Professor Doris Marino.

PROFESSORS: Mary J. MacCracken.

ASSOCIATE PROFESSORS: Davison Munodawafa, Victor E. Pinheiro.

ASSISTANT PROFESSORS: Philip J. Buckenmeyer, Sean Cai, Gayle J. Workman, Thomas A. Eidson.

INSTRUCTOR: Paul J. Wright.

# **College of Business Administration**

#### Accountancy

CHAIR: Professor Mostafa H. Sarhan.

PROFESSORS: Gary B. Frank, Il-Woon Kim, Dennis L. Kimmell, Roberta P. Marquette, Charles K. Moore, Jr.

ASSOCIATE PROFESSORS: Thomas G. Calderon, Edward J. Conrad, James R. Emore, Sharon L. Kimmell, Alvin H. Lieberman, Emeka O. Ofobike.

ASSISTANT PROFESSORS; Jerome E. Apple, David H. Olsen, Susan H. Pope, Douglas M. Stein. INSTRUCTORS: Margaret A. Atkinson, Mary J. Lenard.

#### Finance

CHAIR: Professor David A. Redle.

PROFESSORS: David R. Durst, James E. Inman, Douglas R. Kahl, Ronald Kudla, Karen E. Lahey, Robert J. Williams.

ASSOCIATE PROFESSORS: Harridutt Ramcharran, Bernard S. Winick ASSISTANT PROFESSORS: Kenneth Moon.

#### Management

CHAIR: Professor Gary E. Meek.

DISTINGUISHED PROFESSOR: Jonathon S. Rakich.

PROFESSORS: Kenneth E. Aupperle, James K. Divoky, Kenneth A. Dunning, Stephen F. Hallam, John E. Hebert, Alan G. Krigline, Paul A. Kuzdrall, Jayprakash G. Patankar.

ASSOCIATE PROFESSORS: Robert A. Figler, Susan C. Hanlon, Avis L. Johnson, David G. Meyer, Barbara A. Osyk, Mary Anne Rothermel, Franklin B. Simmons III, Richard W. Taylor, Bindiganavale S. Vijayaraman.

# Marketing

CHAIR: Professor Dale M. Lewison.

PROFESSORS: Michael F. d'Amico, Jon M. Hawes, Donald G. Howard, George E. Prough, John Thanopoulos, Peter B. Turk.

ASSOCIATE PROFESSORS: Jeffrey C. Dilts, Douglas R. Hausknecht, Deborah L. Owens, James T. Strong.

ASSISTANT PROFESSOR: Roscoe Hightower, Veronica C. Horton.

# **College of Fine and Applied Arts**

#### Art

DIRECTOR: Associate Professor Christina DePaul.

PROFESSORS: Andrew Borowiec, George L. DiSabato, Earl L. Ertman, Donald E. Harvey, Dennis A. Kleidon, Penny Rakoff, Neil Sapienza, Mark E. Soppeland, Donna S. Webb, Thomas D. Webb. ASSOCIATE PROFESSORS: George Darbirgs Laura D. Geitano, Twong Gatar, Cale Golambecki.

ASSOCIATE PROFESSORS: George Danhires, Laura D. Gelfano, Tyrone Geter, Gale Golembeski, Richard W. Haire, Christopher Hoot, Robert J. Huff, James V. Lenavitt, Janice S. Troutman, Vlada Vukadinovic, Hui-Chu Ying.

ASSISTANT PROFESSORS: Laura D. Gelfand, Edward J. Laughner.

INSTRUCTOR: John W. Morrison, II.

Communication

DIRECTOR: Associate Professor Dudley B. Turner.

PROFESSORS: John D. Bee, Kathleen L. Endres, William D. Harpine, David L. Jamison, Linda L. Moore, Andrew S. Rancer, Nancy M. Somerick.

ASSOCIATE PROFESSORS: Richard E. Caplan, Gabriel F. Giralt, Therese L. Lueck, Robert D. Ritchey, Tyrone M. Turning.

ASSISTANT PROFESSORS: Carolyn M. Anderson, Sylvia E. White.

#### **Communicative Disorders**

DIRECTOR: Professor James M. Lynn. PROFESSORS: Jean L. Blosser, Roberta DePompei, Carol A. Flexer, Pamela G. Garr-Nunn, Donald E. Hall, Karyn B. Katz, Sharon A. Lesner, William H. Seaton.

ASSOCIATE PROFESSORS: William T. Brandy, Yvonne M. Gillette, Kenneth T. Siloac, Denise F. Wray.

ASSISTANT PROFESSOR: Mona L. Klingler.

#### Dance

DIRECTOR: Associate Professor Lucinda Lavelli ASSOCIATE PROFESSOR: Andrew Carrol, Marc C. Ozanich. ASSISTANT PROFESSORS: Kathleen M. Davis, Frederick T. Smith.

#### Home Economics and Family Ecology

DIRECTOR: Professor Virginia J. Fleming.

PROFESSORS: Tomasita M. Chandler, Helen K. Cleminshaw, Virginia L. Gunn, Barbara Heinzerling, Roberta S. Hurley, Mary C. Rainey, David D. Witt.

ASSOCIATE PROFESSORS: Carolyn A. Albanese, Donna Gaboury, Jean D. Hines, Susan Rasor-Greenhalgh, Isabelle A. Stombaugh, Lucille B. Terry.

ASSISTANT PROFESSORS: Robert Brown, Deborah D. Marino.

INSTRUCTOR: Elise Krigline

#### Music

DIRECTOR: Professor Samuel Gordon.

PROFESSORS: Alfred Anderson, Stephen Aron, David S. Bernstein, Clifford S. Billions, Alan Bodman, Michael P. Haber, Robert Jorgensen, Barbara J. MacGregor, Georgia K. Peeples, George S. Pope, Mary G. Schiller, Richard N. Shirey, Larry D. Snider, Ralph B. Turek, Sherman D. Vander Ark.

ASSOCIATE PROFESSORS: Tana F. Alexander, Harry L. Davidson, Jr., Michael R. Golemo, William K. Guegold, V. Douglas Hicks, William G. Hoyt, Jr., Scott A. Johnston, Tucker R. Jolly, Roland R. Paolucci, Nikola Resanovic, James Ryon, Richard L. Shanklin, Philip G. Thomson, Edward A. Zadrozry, Jr.

ASSISTANT PROFESSORS: Nancy E. Lineburgh, Hakan O. Rosengren, Brooks A. Toliver.

#### Social Work

DIRECTOR: Professor Marvin D. Feit.

PROFESSORS: Geraldine Faria, Virginia L. Fitch, Gauri S. Rai.

ASSISTANT PROFESSORS: Linda F. Crowell, Peter K. Li, Gwendolyn D. Perry, Priscilla R. Smith, Nikki W. Wingerson.

### Theatre Arts

INTERIM DIRECTOR: Professor Lucinda Lavelli. PROFESSORS: Paul A. Daum, Adel A. Migid-Hamzza, Susan D. Speers. ASSOCIATE PROFESSORS: James R. Slowiak. ASSISTANT PROFESSOR: Durand L. Pope.

# **College of Nursing**

#### DEAN: Cynthia Capers.

PROFESSORS: Cynthia Capers, Betty C. Kinion, Mary Helen Kreider, Linda G. Linc, Victoria M. Schirm, N. Margaret Wineman.

ASSOCIATE PROFESSORS: Minnette L. Beeson, Janis M. Campbell, Phyllis A. Fitzgerald, Kristine M. Gill, Joanne M. Marchione, Elaine F. Nichols, Karen S. Reed, Kathleen M. Ross-Alaolmolki, Susan J. Stearns, Lynn I. Wasserbauer, Christine A. Wynd.

ASSISTANT PROFESSORS: Joan E. Baumgardner, Cheryl L. Buchanan, Therese M. Dowd, Susan S. Gerberich, Katharine Y. Kolcaba, Cheryl B. Sadler, Willeane V. Schrock, Karen A. Schwarz.

INSTRUCTORS: Rose A. Beeson, Aris Beoglos, Marie A. Bright Cobb, Diane K. Brown, Ruth E. Carlson, Louise R. Cook, Helen C. Dannemiller, Marguerite A. DiMarco, Elaine M. Fisher, Joseph A. Foley, Doreen M. Good, Alison K. Harrigan, Marlene S. Huff, Christine B. McCalam, Mary E. Meeker, Paula R. Renker, Tracy A. Riley, Carolyn R. Schubert, Sandra L. Siedlecki, Susanne Vendlinski, Annette R. Wilkinson, David W. Woodruff, Stephanie J. Woods.

### College of Polymer Science and Polymer Engineering

### **Polymer Science**

CHAIR: Distinguished Professor of Polymer Science and Kumho Professor of Polymer Science Roderic P. Quirk

DISTINGUISHED PROFESSORS: Frank W. Harris, Joseph P. Kennedy.

- PROFESSORS: Stephen Z. D. Cheng, Ronald K. Eby, Sr., Purushottam Das Gujrati, Gary R. Hamed, H. James Harwood, Frank N. Kelley, Wayne L. Mattice, Darrell H. Reneker.
- ASSOCIATE PROFESSORS: William J. Brittain, Mark D. Foster, John E. Frederick

INSTRUCTOR: Marcia E. Weidknecht.

#### Polymer Engineering

CHAIR: Professor James L. White.

DISTINGUISHED PROFESSOR: Joseph Padovan.

PROFESSORS: Mukerrem Cakmak, Chang D. Han, Avraam I. Isayev, Thein Kyu, Arkadii I. Leonov, Erol Sancaktar, Rudolph J. Scavuzzo, Jr.

ASSOCIATE PROFESSOR: Kyonsuku M. Cakmak.

### School of Law

DEAN: Professor Richard L. Aynes.

- PROFESSORS: Lloyd C. Anderson, J. Dean Carro, Dana F. Castle, Wilson R. Huhn, William S. Jordan, III, Margery B. Koosed, Richard J. Kovach, Tawia Modibo Ocran, Elizabeth A. Reilly, Paul Richert.
- ASSOCIATE PROFESSORS: Richard C. Cohen, Dana K. Cole, Malina Coleman, Howard A. Denemark, Jerry A. Menikoff, Charles A. Newman, Carol A. Olson, William D. Rich, John P. Sahl, Ann E. Woodlev.

ASSISTANT PROFESSORS: Nancy L. Bertolino, Willa E. Gibson, Brant T. Lee.

# Wayne College

DEAN: Professor John P. Kristofco.

PROFESSORS: Warner D. Mendenhali, Forrest Smith, Kay E. Stephan.

- ASSOCIATE PROFESSORS: Thomas E. Andes, R. Diane Arnold, Gary A. Bays, Karin J. Billions, Louis M. Janelle, Jr., Debra L. Johanyak, Patsy A. Malavite, Robert L. McEiwee, Janet L. Minc, Jane F. Roberts, Emily A. Rock, Monica M. Smith, Tyrone M. Turning, Timothy R. Vierheller, Douglas B. Woods.
- ASSISTANT PROFESSORS: Daniel C. Deckler, Richard M. Maringer, Jerry C. Obiekwe, Susan R, Raftery, Colleen M. Teague, Helen F. Walkerly, Paul B. Weinstein.

INSTRUCTORS: Jack A. Loesch, Joseph M. Wilson.

# **University Libraries**

DEAN: Professor Delmus E. Williams.

PROFESSORS: Ruth W. Clinefelter, George V. Hodowanec.

ASSOCIATE PROFESSORS: Stephen H. Aby, David R. Brink, Diana A. Chlebek, Roger W. Durbin, Julie A. Gammon, John V. Miller, Jr., Phyllis G. O'Connor, Nancy L. Stokes.

ASSISTANT PROFESSORS: Stanley W. Akers, Virginia M. Berringer, Ann D. Bolek, Onadell J. Bly, Cynthia L. Coccaro, Sherri L. Edwards, Judith L. Fitzgerald, Jeffrey A. Franks, Nancy L. Hayes, Mary S. Konkel, James C. Kuhn, IV, Joseph A. LaRose, Peter Linberger, Joan C. Long, Daniel C. Mack, Cherie A. Madarash-Hill, Bennie P. Robinson, Mae N. Schreiber, Joseph E. Straw.

# **Reserve Officers' Training Corps**

#### Army

- LARRY C. SHUBAT, Professor of Military Science (July 1992) B.A., The University of California at Davis; M.S., The Ohio State University; Command and General Staff College, 1989; Major, Corps of Engineers, U.S. Army.
- DAVID A. DECKARD, Assistant Professor of Military Science (July 1993) B.A., The University of Akron; Command and General Staff College, 1989; Major, U.S. Army.

JEFFREY L. WATSON, Assistant Professor of Military Science (January 1997) B.S., University of Colorado at Boulder, 1988; Captain, Aviation, U.S. Army.

RONNIE ADAMS, Senior Instructor of Military Science (1996); Master Sergeant, U.S. Marine Corps. MICHAEL A. ROWE, Instructor of Military Science (1995); Sergeant First Class.

#### Air Force

- GERALD A. HOLLERAN, Professor of Aerospace Studies (1996) B.S., University of Central Oklahoma; M.S., Troy State University, 1989; Lt. Col., USAF.
- WILLIAM K. BRADEN, Air Force ROTC Regional Director of Admissions (1995) B.S., Pennsylvania State University; M.S., Air Force Institute of Technology, 1987; Major, USAF, Contracting Officer.
- DANIEL W. BREDESON, Professor of Aerospace Studies (1997) B.S., United States Air Force Academy; M.S. St. Mary's University, 1996; Captain, USAF, Operations Capabilities Analyst.
- JOHN V. BARTOLI, Assistant Regional Director of Admissions (1997) B.S. 1997; 2nd Lieutenant, USAF.

TANECHA L. BRADLEY, NCOIC, Information Management (1995) Staff Sergeant, USAF. TIMOTHY A. REEB, NCOIC (1995) Staff Sergeant, USAF, Personnel.

# The Maurice Morton Institute of Polymer Science

- FRANK W. HARRIS, Distinguished Professor of Polymer Science; Distinguished Professor of Biomedical Engineering; Director of The Maurice Morton Institute of Polymer Science; Research Associate, Institute of Polymer Science (August 1983) B.S., University of Missouri; M.S., Ph.D., University of Iowa, 1968.
- WILLIAM J. BRITTAIN, Associate Professor of Polymer Science (August 1990) B.S., University of Northern Colorado; Ph.D., California Institute of Technology, 1982.
- STEPHEN Z. D. CHENG, Professor of 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.
- RONALD K. EBY, SR., Robert C. Musson Professor of Polymer Science (July 1990) Sc.B., Lafayette College; M.S., Ph.D., Brown University, 1958.
- MARK D. FOSTER, Associate Professor of Polymer Science (November 1990) B.S., Washington University; Ph.D., University of Minnesota at Minneapolis, 1987.
- JOHN E. FREDERICK, Associate Professor of Chemistry; Associate Professor of Polymer Science (October 1966) B.S., Glenville State College, Ph.D., University of Wisconsin, 1964.
- 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 Chemistry; Professor of Polymer Science (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 (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.
- RODERIC P. QUIRK, Distinguished Professor of Polymer Science and Kumho Professor of Polymer Science; Department Chair 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 (September 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.
- ERNST D. VON MEERWALL, Distinguished Professor of Physics; Distinguished Professor of Chemistry; Faculty Research Associate, IPS (1971) B.S., M.S., Northern Illinois University; Ph.D., Northwestern University, 1970.
- MARCIA E. WEIDKNECHT, Instructor in Polymer Science (August 1989) B S., University of New Hampshire, 1971.
- 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; Department Chair of Polymer Engineering; 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.
- KYONSUKU MIN-CAKMAK, Associate Professor of Polymer Engineering (August 1983) B.Eng., M.Eng., Kyoto Institute of Technology; Ph.D., University of Tennessee, 1984.
- MUKERREM CAKMAK, Professor of Polymer Engineering (August 1983) B.S., Technical University of Istanbul; M.S., Ph.D., University of Tennessee, 1984.
- 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, 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.
- 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.
- EROL SANCAKTAR, Professor of Polymer Engineering (January 1996) B.S., Boston College, Istanbul (now Bosphorus University); M.S., Ph.D., Virginia Polytechnic Institutue and State University, 1979.
- RUDOLPH J. SCAVUZZO, JR., Associate Dean of the College of Polymer Science and Polymer Engineering: Professor of Polymer Engineering; Professor of Mechanical Engineering (September 1973) B.S.M.E., Lehigh University; M.S.M.E., Ph.D., University of Pittsburgh, 1962; P.E., Ohio.

# Institute of Biomedical Engineering Research

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.

GEORGE C. GIAKOS, Assistant 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 Biamedical Engineering (March 1981) B.E., Osmania
- University; M.S., University of Mississippi, Ph.D., Texas A&M University, 1974. DONNA B. RICHARDSON, Assistant Professor of Biomedical Engineering (1994) B.S., University
- of Iowa; M.S., Ph.D., Duke University, 1991.
- 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.
- WILLIAM D. TIMMONS, Assistant Professor of Biomedical Engineering (1993) B.S., M.S., Ph.D., Case Western Reserve University, 1992.
- 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., LL.D. PARKE R. KOLBE\*, 1913, Ph.D., LL.D.

### The University of Akron

PARKE R. KOLBE\*, 1913-1925, Ph.D., LL.D. GEORGE F. ZOOK\*, 1925-1933, Ph.D., LL.D. HEZZLETON E. SIMMONS\*, 1933-1951, M.S., D.Sc. LL.D. NORMAN P. AUBURN, 1951-1971, B.A., D.Sc., Litt, D., L.H.D., LL.D., D.C.L. D. J. GUZZETTA, 1971-1984, Ed.D., LL.D., D.S.C., L.H.D. WILLIAM V. MUSE, 1984-1992, B.S., M.B.A., Ph.D. MARION A. RUEBEL, 1992, B.S., M.A., Ph.D., (acting) PEGGY GORDON ELLIOTT, 1992-1996, B.A., M.S., Ed.D. MARION A. RUEBEL, 1996, 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. 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, 1995-97, Ph.D.

# College of Engineering

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### Graduate School

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# INDEX

1997–1998 Undergraduate Bulletin

# А

Academic Achievement Programs, 22 Academic Advisement Center, 89 (see also, Advising, Academic40) Academic Dishonesty, 41 (see also, Student Conduct, 24) Academic Reassessment, 41 Academics, 8 Accountancy, Degree Program, 124 Courses, 236 Accreditation, 7 Adding/Dropping Classes (see policies under Student Schedules, 40) Administrative Officers, University, 256 Admissions, 34 Admission Procedure, 34 Adult Students, 34 Classification of Students, 34 Conditional/Unconditional Admission, 37 Criteria for Direct Admission to Degree-Granting College, 37-38 Graduating High School Seniors, 34 Guest Students, 37 International Students and Scholars, 39 Postbaccalaureate Student, 36 Post-Secondary Enrollment, 36 Special Student, 36 Transfer Module, 35 Transfer Students, 35 Adult Resource Center (See Sixty-Plus Program, 25) Advanced Placement Credit, 42 Advancement/Advisory Councils, 279 Advertising Certificate, Marketing and Sales Technology, 171 Advertising Degree Program, 127 Advising, Academic, 40 (see also Academic Advisement Center, 89) Aerospace Studies (Air Force ROTC), 91 Courses, 185 African-American Studies (See Pan-African Studies) Aging Services: Certificate Program, 164 Air Force ROTC (see Aerospace Studies) Alcohol Services Aide Certificate Program, 164 Allied Health, Degree Programs, 66 Alternative Credit Options, 42 Advanced Placement Credit, 42 Bypassed Credit, 43 College Level Examination Program (CLEP), 43 Credit by Examination, 44 International Baccalaureate, 44 Military Credit, 44 Tech Prep, 44 Transfer Credit, 44 (see also Transfer Module, 35) American Sign Language, 75, 188 Anthropology Degree Program, Interdisciplinary, 106 Courses, 222 Minor, 154 Applied Politics, Certificate Program, 164 Applied Politics, Ray C. Bliss Institute for, 180 Army ROTC (see Military Science) Art, Degree Programs, 129 B.A. Art Education Options, 129 B.F.A. Art Education Options, 130 Courses, 240 Minors, 154-155 Arts and Sciences, Buchtel College of, 95, 201 Admission requirements, 95 Criteria for Direct Admission, 37 Anthropology (Interdisciplinary), 106 Bachelor of Science/Doctor of Medicine Degree Program, 103 Biology, 96 Certificates (see Certificate Programs) Chemistry, 97 Classics, 99 Credit and Grade-point Requirements for Graduation, 46 Computer Science, 102

## Arts and Sciences, Buchtel College of, continued

Degrees Awarded, 95 Economics, 99 English, 100 Facilities, Laboratories, and Equipment, 14 Geography and Planning, 100 Geology, 101 History, 102 Humanities Division, 95 Humanities Division Major, 107 Major Field, 95 Mathematics, 102 Minors (see Minor Areas of Study) Modern Languages, 103 Natural Sciences Division, 95 Natural Sciences Division Major, 107 Philosophy, 103 Physics, 103 Political Science, 104 Preparation for High School Teaching, 91 Psychology, 105 Social Sciences Division, 95 Social Sciences Division Major, 107 Sociology, 105 Statistics, 103 Associate Degree Programs, Listing of, 9 Associate Degrees, Requirements, 66 Associate Studies, 67 Associate of Technical Studies, 77 (see also Wayne College) Associated Student Government, 29 Athletic Training for Sports Medicine, Degree Program, 120 Athletics, 29 Attendance, Class, 40 Automated Manufacturing Technology, Degree Program, 64 Courses, 198 Automotive Technology (see Associate of Technical Studies), 74 Audit Policy, 42

# В

Baccalaureate Degree Programs, Listing of, 9 Background, University, 6 Bierce Library, 13 (see also, University Libraries, 19) Bilingual Multicultural Education, Degree Program, 122 **Biology Degree Programs, 96** Areas of Specialization, 96 Courses, 202 Cytotechnology Degree, 97 Medical Technology Degree, 97 Minor, 155 Preparation for High School Biology Teaching, 97 Preparation for Professional School, 97 **Biomedical Engineering**, 227 **Biomedical Engineering Research, Institute for, 180 Black Cultural Center, 11** Bliss, Ray C., Institute of Applied Politics, 180 Board Rates, Room and, (see Residence Halls) Board of Trustees, 256 Botany (see Biology Areas of Specialization) Brunswick High School, The University of Akron Center at, 10 B.S./M.D., Degree Program, 103 Buchtel College of Arts and Sciences (see Arts and Sciences) Buildings, Campus, 13 Business Administration, College of, 103, 236 Accountancy, 124 Admission, 123 Criteria for Direct Admission, 38 Advertising, 127 Certificates (see Certificate Programs) Cooperative Education, 124

Business Administration, College of, continued

Credit and Grade-point Requirements for Graduation, 46 Degrees, 124 Finance, 125 Facilities, Laboratories and Equipment, 16 General Business, 124, 236 Graduation, Requirements for, 124 International Business, 127 Management, 125 Marketing, 126 Minors (see Minor Areas of Study) Programs of Instruction, 124 Business Technology, Degree Programs, 68, 192 Bypassed Credit, 43

# С

Calendar, 2 Campus, Buildings, Location, Facilities and Equipment, 13 Campus Safety and Security, 27-28 Canadian Studies, Certificate Program, 165, 201 C.A.R.E. Program (see Student Assistance Center) Career Development Service, 22 (see also Placement Services, 24) Cartographic Specialization, Certificate Program, 165 Center for Child Development, 30 Certificate Programs, Listing of, 10 Certificate Programs, 164 Aging Services, 164 Alcohol Services Aide, 164 Applied Politics, 164 Canadian Studies, 165 Cartographic Specialization, 165 Chemical Dependency, 165 Child-Care Worker, 166 Commercial Photography (Inactive), 166 Computer Physics, 166 Computer Science, 166 Computer Software for Business, 166 Conflict Resolution/Management (Peace Studies), 173 Criminal Justice Technology, 166 Criminal Justice/Security Emphasis, 167 Digital Electronics and Microprocessors, 167 Drafting and Computer Drafting Technology, 167 Environmental Studies, 167 Entrepreneurship, 168 Fire Protection Technology, 168 Gerontology, 168 Home-Based Intervention, 169 Hospitality Management, 169 Interior Design, 170 Latin American Studies, 170 Legal Assisting, 170 Library Studies (Inactive), 170 Linguistic Studies, 171 Manual Communication, 171 Marketing and Sales Technology, 171 Marketing and Sales Technology: Advertising, 171 Network Technology, 171 Office Administration, 171 Pan-African Studies, 172 Peace Studies, 172 Planning (City and Regional Resource Studies), 173 Professional Communication, 174 Professional Selling, 174 Programming Skills Enrichment, 174 Real Estate, 174 Retail Marketing, 175 Russian Area Studies, 175 Small Business Management, 175 Supervision and Management, 175

Certificate Programs, continued Surgeon's Assistant (Inactive), 176 Surgical Technologist, 176 Teaching English as a Second Language, 176 Technical Training, 176 Transportation Studies, 177 Travel and Tourism, 177 Volunteer Program Management, 177 Women's Studies, 177 **Certification, State Teachers, 114 Chemical Dependency Certificate Program, 165** Chemical Engineering, Degree Programs, 109 Courses, 223 Chemistry, Degree Programs, 97-99 Courses, 204 Minor, 155 Child Care (see Center for Child Development) Child Care Worker, Certificate Program, 166 **Civil Engineering, Degree Program, 110** Courses, 224 **Class Attendance**, 40 Classics, Degree Program, 99 Courses, 204 Greek, 205 Latin, 205 Minors, 156 **Classification of Students, 34** CLEP (College Level Examination Program), 43 **Closing Policy**, 2 Clothing, Textiles and Interiors (see Fashion Merchandising) **Cocurricular Activities, 29** Associated Student Government, 29 Athletics, 29 Departmental Organizations, 29 Directory of Student Organizations, 31 **Diversity Opportunities, 30** Greek Affairs, 29 Performing Arts, 29 Student Publications, 29 University Program Board, 30 Commercial Art, Degree Program (Inactive), 67 Commercial Photography, Certificate Program (Inactive), **Communication, Degree Programs, 140** Courses, 247 Communicative Disorders (see Speech Pathology and Audiology) Community and Technical College, 64, 187 Admission, Criteria for Direct, 38 Allied Health, 66 Histologic Technology, 66 Medical Assisting Technology, 66 Radiologic Technology, 66 Respiratory Care, 67 Surgical Assisting Technology, 66 Associate Degrees, 65 Associate Studies, 67 Arts, 67 Individualized Study, 67 Commercial Art (Inactive), 67 Commercial Photography (Inactive), 68 Associate of Technical Studies, 74 (Associate of Technical Studies-Automotive Technology) Baccalaureate Degrees, 64 Automated Manufacturing Technology, 64 Electronic Engineering Technology, 64 Mechanical Engineering Technology, 65 Surveying and Mapping, 65 Business Technology, 67 Business Management Technology, 69 Computer Programming Technology, 70 Hospitality Management, 67 Marketing and Sales Technology, 70

Community and Technical College, continued Office Administration, 71 Office Services (Inactive), 71 Real Estate (Inactive, see Certificate Program), 70 Transportation, 72 Computer Programming Technology, 70 Credit and Grade-Point Requirements for Graduation, 46 Engineering and Science Technology, 72 Drafting and Computer Drafting Technology, 74 Electronic Engineering Technology, 73 Electromechanical Service Technology, 72 Polymer Technology, 72 Manufacturing Engineering Technology, 73 Mechanical Engineering Technology, 73 Surveying and Construction Engineering Technology, 74 Facilities, Laboratories, and Equipment, 16 Public Service Technology, 75 American Sign Language Interpreting and Transliterating Technology, 75 Community Services Technology, 76 Criminal Justice Technology, 75 Educational Technology, 75 Fire Protection Technology, 76 Legal Assisting Technology, 77 **Community Services Technology, Degree Program, 75** Courses, 189 Minor, 156 Computer Center (Information Services), 19 **Computer Engineering, 110** Courses, 225 Computer Physics, Certificate Program, 166 Computer Programming Technology, Degree Program, 70 Courses, 193 Minor, 156 Network Technology Certificate Program, 171 Computer Science, Degree Program, 102 Certificate, 166 Courses, 213 **Computer Service and Network Technology, 81 Computer Software for Business Certificate Program, 166** Conditional/Unconditional Admission, 37 Conflict Resolution/Management Certificate, 173 (see also Peace Studies Certificate) Construction Technology, Degree Program, 113 Courses, 227 Continuing Education, (see University of Akron Service Consortium) Cooperative Education Programs (see Placement Services, 24) (see also individual academic programs) Corrections (see Sociology, 106) Counseling, Testing, and Career Center, 22 Career Development Service, 22 Counseling Services, 22 Outreach and Consulting Service, 22 Testing Services, 22 Course descriptions (see Section 8, 184) Course Materials/Computing Fees, 50 **Course Numbering System, 184** Coventry North, The University of Akron Center at, Credit by Examination, 44 Credit-Noncredit Option, 42 Crime Prevention, 27 Crime Statistics, 28 Criminal Justice, B.S. in Political Science, 105 Criminal Justice/Security Emphasis, Certificate Program, 167 Criminal Justice Technology, Degree Programs, 75 Certificate Programs, 166-167 Courses, 188 Minor, 156 Culinary Arts (see Food Science or Hospitality Management) Cytotechnology Degree Program (Biology), 97 Courses, 203

# D

Dance, Degree Program, 145 Courses, 251 Minor, 156 Organizations, 251 Performance, 252 Data Processing (see Computer Programming Technology) Day Care (see Center for Child Development) Dean's List, 41 Deans, University, 278 Departmental Numbering System (see Course Numbering System) **Departmental Organizations, 29 Developmental Programs, 90, 185 Dietetics, Degree Program, 134** Digital Electronics and Microprocessors, Certificate Program, 167 **Dining Hall Facilities** (see Residence Halls) **Direct Admission, Criteria for, 37-38** Discipline (see Student Conduct) Dismissal (see Probation-Dismissal, 41) **Diversity Opportunities, 30 Doctoral Degree Programs, Listing of, 8** Dormitories (see Residence Halls) Drafting and Computer Drafting Technology, Degree Program, 74 Certificate, 167 Courses, 199 **Dropping/Adding Classes** (see policies under Student Schedules, 40) **Drug and Alcohol Prevention,** (For academic programs, see Chemical Dependency. For student services, see Student Assistance Center, 22)

# E

Ecology (See Biology) **Economic Education, Center for, 180** Economics, Degree Program, 99 Courses, 205 Labor Economics, 99 Minors, 156-157 Education, College of, 114, 228 Admission, 114 Criteria for Direct Admission, 38 Athletic Training for Sports Medicine, 120 Bachelor Degrees, 115 Bilingual Multicultural Education, 122 Certification, Teacher, 114, 115 Clinical and Field-Based Experiences, 115 Cooperative Education, 115 Credit and Grade-Point Requirements for Graduation, 46 Educational Foundations and Leadership, 228, 236 Educational Guidance and Counseling, 233 Educational Technology, 235 Elementary, 116 Facilities, 16 Foreign Language K-12, Certification for Teaching, 115 Health, 118-119 Music in Elementary School, Certification for Teaching, 116 Objectives, 114 Outdoor, 118 Physical, 118 Professional Preparation, 115 Programs of Instruction, 116 Requirements, 114 School Psychology, 234 Secondary, 117 Special, 121 Students Enrolled in Other Colleges, 115 Student Teaching, 115 Technical, 118

Educational Technology, Degree Program, 75 Courses, 187 Electrical Engineering, Degree Program, 110 Courses, 225 Electronic Engineering Technology, Degree Programs, 64 Courses, 197 Elementary Education, Degree Program, 116 Courses, 228 Emergency Phone Numbers, 4, 28 **Emergency Phones, 27** Emeritus Faculty, 256 Engineering, College of, 109, 223 Admission, 109 Criteria for Direct Admission, 38 Bachelor of Science Program, 113 Biomedical, 227 Chemical, 109 Civil, 110 Computer Engineering, 110 Construction Technology, 113 Cooperative Education Program, 109 Credit and Grade-Point Requirements for Graduation, 46 Degrees Offered, 109 Electrical, 110 Facilities, Laboratories and Equipment, 17 General Engineering Courses, 223 Graduation, Requirements for, 109 Mechanical, 111 Mechanical Polymer Engineering, 112 Objectives, 109 Polymer Engineering Specialization Certificate (Chemical Engineering), 110 Programs of Instruction, 109 Requirements, 109 Engineering and Science Technology, 72 Drafting and Computer Drafting Technology, 72 Electronic Engineering Technology, 73 Electromechanical Service Technology, 72 Polymer Technology, 72 Manufacturing Engineering Technology, 73 Mechanical Engineering Technology, 73 Surveying and Construction Engineering Technology, 74 Engineering Geology, 101 Engineering, Polymer, 152, 254 (see also Polymer Science and Polymer Engineering, College of; Mechanical Polymer Engineering; and Chemical Engineering Polymer Enginerring Certification) English, Associate Studies, 187 English, Degree Program, 100 Courses, 206 Minors, 157 Entrepreneurship programs Certificate, 168 Courses, 237 Minor, 157 Entrepreneurial Studies, William and **Rita Fitzgerald Institute for, 181** Environmental Health and Safety Technology, 81 Environmental Studies, Center for, 180 Environmental Studies, Certificate Program, 167, 201 Expenses (see Fees)

# F

Facilities and Equipment, 14 Faculty, Alphabetical, Listing of, 261 Faculty, by College, Listing of, 274 Faculty, Emeritus, 256 Family Business, Center for, 180 Family and Child Development, Degree Program, Family Studies, Center for, 180 Fashion Merchandising, Degree Program, 132 Fees and Expenses, 48 Admission Application Fee, 48 Alternative Credit Fees, 48 Course Materials, Computing Fees, 48 Graduation Fees, 50 Installment Payment Plan, 56 Miscellaneous Fees, 49 Orientation Program Fees, 48 Other Registration and Related Fees, 48 Parking Fees, 50 Tuition and Fees, 48 Typical Annual Student Expenses, 48 Veterans Expenses, 56 Refunds, 56 Room and Board Rates, 24 Finance for Non-Business Majors, 157, 236 Finance, Degree Program, 125 Courses, 237 Minors, 157-158 Financial Aid, 125 Fine and Applied Arts, College of, 128, 240 Admission, 128 Criteria for Direct Admission, 38 Art. 128 Art Education Options, 129 (B.A.), 130 (B.F.A) Communication, 140 Certificates (see Certificate Programs) Credit and Grade-Point Requirements for Graduation, 46 Dance, 145 Degrees Offered, 128 Facilities, Laboratories and Equipment, 17 Graduation Requirements, 128 Home Economics and Family Ecology, 131 Dietetics, 134 Family and Child Development, 131 Fashion Merchandising, 132 Food Science, 131 Home Economics Teacher Education, 135 Interior Design, 132 Marketing and Sales Technology (2+2 programs), 133 Senior Honors Program, 136 Minors (see Minor Areas of Study) Music, 136 Objectives, 128 Programs of Instruction, 128 Social Work, 142 Speech-Language Pathology and Audiology, 142 Theatre, 144 Fire and Hazardous Materials Research, Training Center for, 182 Fire Protection Technology, 76 Certificate Program, 168 Courses, 189 Minor, 158 Food Science, Degree Program, 131 Foreign Languages, Degree Program (see Modern Languages) Fraternities (see Greek Affairs) French (see also Modern Languages), Degree Program, 103 Courses, 215 Futures Studies and Research, Institute for, 181

# G

Gardner Student Center, 23 General Education Requirements (University College), 88-89 General Engineering, 223 General Technology, 196 Geography and Planning, Degree Programs, 100 Cartographic Specialization, Certificate Program, 165 Courses, 208 Geography/Cartography, 100 Geography/Travel and Tourism, 101 Minor, 158 Planning, Certificate Program, 173 Geology, Degree Programs, 101 Courses, 209 Minor, 158 Geophysics (see Geology, 101) German, Degree Program, 103 (see also Modern Languages) Courses, 215 Gerontology, Certificate Program, 168, 201 Global Business, Institute for, 182 Grade Policies and Credit, 40-42 Academic Dishonesty, 41 Academic Reassessment, 41 Credit-Noncredit, 42 Dean's List, 41 Grades and Grading System, 40 Probation-Dismissal, 41 Repeating Courses, 41 Graduate School, Degree Programs, Listing of, 8 Graduation Requirements, 45-47 Associate Requirements, 45 Baccalaureate Requirements, 45 Change of Requirements, 45 Credit and Grade-Point Requirements, 46 Graduation with Honors, 47 Grants and Loans, Student (see Financial Aid) Greek Affairs, 29 (see also Directory of Student Organizations) Greek (see Classics) Guest Students, 37

# Η

Handicapped (see Services for Students with Disabilities) Handicapped Services (see American Sign Language) Health Education, Degree Program, 118-119 Courses, 232 Health Insurance (Health Services, Student) Health Services, Student, 26 History, Degree Programs, 102 Courses, 210 Minor, 158 History of the University, 6 Histologic Technology, 66, 195 Home-Based Intervention, Certificate Program, 169 Home Economics and Family Ecology, Degree Programs, 131-136 Courses, 242 Dietetics, 134 Family and Child Development, 131 Child Development Child Life Specialist Family Development Illness and Death Pre-Kindergarten Certification Fashion Merchandising, 132 2+2 programs with C&T College, 133-134 Food Science, 131 Home Economics Teacher Education, 135 Interior Design, 132 Marketing and Sales Technology (2+2 programs with C&T College), 133-134 Minors, 158 Honors Program (see University Honors Program)

Hospitality Management, Degree Program, 67 Certificate Program, 169

Courses, 191 Minor, 159 Housing (see Residence Halls) Humanities Division Major, 107

Independent Student (see Financial Aid) Individualized Study, Degree Program, 67 Courses, 187 Industrial Accounting, Degree Program (see Management) Information Services, 19 Inquiries, 3 Installment Payment Plan, 56 Institutes (see Research Centers and Institutes, 180) Instrumentation Technology (Inactive), 199 Insurance, Student Health/Accident (see Health Services, Student) Interior Design, Degree Program, 132 Certificate, 170 Intercollegiate Athletics (see Athletics) Interdisciplinary Programs, (see Certificate Programs) International Baccalaureate, 44 International Business, Degree Program, 127 Courses, 239 Minor, 159 International Programs, Office of, 23 International Students and Scholars, 39 Admission Procedure, 39 Orientation, 39 Study Abroad, 10 Interpreting for the Deaf (see American Sign Language) Italian, 216 (see also Modern Languages)

# J

Journalism (see Communication)

# L

Labor Economics, 99 (see Economics) Minor, 157 Labor Studies (Inactive), 190 Latin, 205 (see also Classics) Latin American Studies, Certificate Program, 170 Law Enforcement (see Sociology, 105) (See also Criminal Justice Technology) Law, School of, 8 Legal Assisting, Certificate Program, 170 Legal Assisting Technology, Degree Program, 77 Courses, 191 Legal Secretarial Science (see Office Services) Libraries, University, 19 Library, Minor (Inactive), 159 Library Studies Certificate Program (Inactive), 170 Life-Span Development and Gerontology, Institute for, 181, 201 Linguistic Studies, Certificate Program, 171 Loans, Student (see Financial Aid)

Management, Degree Program, 125 Courses, 238 Minor, 159 Manual Communication, Certificate Program, 171 Manufacturing Engineering Technology, Degree Programs, 73 Courses, 198 Marketing, Degree Programs, 126-127 Certificate in Professional Selling, 174 Courses, 193 Minor in Sales Management, 162 Marketing and Sales Technology, Degree Programs, 70 Certificates, 171 (see also 2+2 Bachelor of Arts programs, 133-134) Courses, 212 Minor, 160 Mass Media Communication (see Communication) Mathematics, Associate Studies, 187 Mathematical Sciences, Degree Programs, 102 Courses, 212 Minor, 160 Maurice Morton Institute of Polymer Science, 182 Mechanical Engineering, Degree Program, 111 Courses, 227 Mechanical Engineering Technology, Degree Programs, 65 Courses, 199 Medical Assisting Technology, Degree Program, 66 Courses, 195 Medical School (see B.S./M.D. Program, 108; and Northeast Ohio Universities College of Medicine, 151) Medical Technology, Degree Program (Biology), 97 Courses, 203 Medicine, (see B.S./M.D., Degree Program) Microbiology (see Biology Areas of Specialization) Military Credit, 44 Military Science (Army ROTC), 92 Courses, 185 Minor, 160 Ministries, Interfaith Council of, 30 Minor Areas of Study, 154 Anthropology, 154 Art, 154-155 Biology, 155 **Business Administration**, 155 Business Management Technology, 155 Chemistry, 155 Classical Languages, 156 Classical Civilization, 156 Community Services Technology, 156 Computer Programming Technology, 156 Consumer Marketing, 156 Criminal Justice Technology, 156 Dance, 156 Economics, 156 English, 157 Entrepreneurship, 157 Finance for Business Majors, 157 Finance for Non-Business Majors, 158 Fire Protection, 158 Geography and Planning, 158 Geology, 158 History, 158 Home Economics and Family Ecology, 158 Hospitality Management, 159 International Business, 159 Labor Economics, 159 Library (Inactive), 159 Management, 159 Marketing and Sales Technology, 160 Mathematical Sciences, 160 Military Studies, 160 Modern Languages, 160 Music, 160 Office Administration, 160

## Minor Areas of Study, continued Philosophy, 161 Physics, 161 Political Science, 161-162 Psychology, 162 Sales Management, 162 Sociology, 162 Speech-Language Pathology and Audiology, 162 Theatre Arts, 162 Transportation, 162 Minority Affairs, Office of, 11 Mission/Strategic Directions of the University, 6 Modern Languages, Degree Programs, 103 Courses, 215 French, 103, 215 German, 103, 215 Italian, 215 Minors, 160 Russian, 216 Spanish, 103, 216 Multicultural Education, Bilingual and, 122 Music, Degree Programs, 136-140 Applied Music, 247 Bachelor of Music, 136 Composition, 139 History and Literature, 139 Jazz Studies, 140 Music Education, 140 Performance (varied emphases), 137-139 Courses, 244 Minor, 160 Organizations, 246

# N

Natural Sciences, Division Major, 107 Network Technology, Certificate Program, 171 Noncredit Programs (see University of Akron Service Consortium) Nordonia High School, The University of Akron Center at, 10 Northeastern Ohio Universities College of Medicine (NEOUCOM), 151 (see also B.S./M.D. Program, 108) Nursery, Pre-School (Center for Child Development) Nursing, Center for, 181 Nursing, College of, 147, 253 Admission, 147 Criteria for Direct Admission, 38 Agencies, 150 Basic Baccalaureate Program, - 148 (Full- and Part-Time Options) Credit and Grade-Point Requirements for Graduation, 46 Facilities and Equipment, 19 Goals, 147 L.P.N./B.S.N. Sequence, 150 Philosophy, 147 Reapplication, 148 Requirements for Graduation, 148 R.N./B.S.N. Registered Nurse Sequence, 149 Nursing, SUMMA St. Thomas Diploma Program, 90

# Ο

Off-Campus Programs, 10 Office Administration, Certificate Program, 171 Office Administration Degree Program, 71 Courses, 194 Minor, 160 Office Services Degree Program (Inactive), 72 Orientation, New Student, 40 Orientation fees, 48

University Orientation course, 90 Outdoor Education, Degree Program, 118 Courses, 232

# Ρ

Pan-African Studies: Certificate Program, 172, 201 Paralegal (see Legal Assisting Technology) Parking Fees, 50 Peace Studies, Center for, 181 Peace Studies, Certificate Program, 172, 201 Conflict Resolution/Management Certificate, 173 Performing Arts, 29 Philosophy, Degree Program, 103 Courses, 217 Minors, 161 Phone Numbers, 4 Physical and Education (5550:), Degree Program, 118 Courses, 231 Physical Education (5540:), General Education, 231 Physics, Degree Program, 103 Computer Physics Certificate Program, 166 Courses, 218 Minor, 161 Physiology, Animal (see Biology Areas of Specialization) **Placement Services, 24** Planning, Certificate Program, 173 Police, University, 27 Policy Studies, Institute for, 182 Political Science, Degree Programs, 104 Applied Politics, Certificate Program, 164 Courses, 219 Minors, 161-162 Polymer Engineering, Institute of, 182 Polymer Engineering, 254 (see also Mechanical Polymer Engineering; and Chemical Engineering Polymer Engeering Specialization) Polymer Engineering, Mechanical, 112 Polymer Engineering Specialization (Chemical Engineering), 110 Polymer Science and Polymer Engineering, College of, 151 Courses, 254 Facilities, 19 Polymer Science, Maurice Morton Institute of, 182 Polymer Technology, Degree Program, 72 Courses, 197 Postbaccalaureate Student (Admission), 36 Post-secondary Enrollment Option, 36 **Process Research Center, 182** Pre-School, Nursery (see Center for Child Development) Presidents, University, 280 Probation-Dismissal, 41 Procedures and Requirements, 40 Professional Communication, Certificate Program, 174 Professional Selling, Certificate Program, 174 Professional Selling, Fisher Institute for, 181 Programming Skills Enrichment, Certificate Program, 174 Psychology, Degree Programs, 105 Courses, 220 Minors, 162 Publications, Student, 29 Public Relations (see Communication) Public Service Technology, Degree Programs, 75 American Sign Language, 75 Community Services Technology, 75 Criminal Justice Technology, 76 Educational Technology, 75

Fire Protection Technology, 76 Legal Assisting Technology, 77

# R

Radiologic Technology, 66, 195 Reading, 229 Real Estate Certificate Program, 174 Courses, 192 Real Estate, Degree Program, 70 (Inactive, see Certificate Program) Refunds, Regulations Regarding, 56 Registration, 40 Repeating Courses, 41 Research Centers and Institutes, 180-182 Applied Politics, Ray C. Bliss Institute of, 180 Biomedical Engineering Research, Institute for, 180 Economic Education, Center for, 180 Entrepreneurial Studies, William and Rita Fitzgerald Institute for, 181 Environmental Studies, Center for, 180 Family Business, Center for, 180 Family Studies, Center for, 180 Fire and Hazardous Materials Research, Training Center for, 182 Futures Studies and Research, Institute for, 181 Global Business, Institute for, 182 Life-Span Development and Gerontology, Institute for, 181 Nursing, Center for, 181 Peace Studies, Center for, 181 Policy Studies, Institute for, 182 Polymer Engineering, Institute of, 182 Polymer Science, Maurice Morton Institute of, 182 Process Research Center, 182 Professional Selling, Fisher Institute for, 181 Small Business, Center for, 181 Urban Studies, Center for, 181 Reserve Officer Training Corps (ROTC), 91 (see Aerospace Studies - Air Force, or Military Science - Army) **Residence Halls, 24** Access (Safety and Security), 25 Room and Board Rates, 24 Refunds, 57 Residence Hall Student Council (RHC), 25 University Food Service, 25 **Residency Requirements, 57** Respiratory Care, Degree Program, 67 Courses, 196 **Restaurant Management** (see Food Science or Hospitality Management) **Retail Marketing, Certificate Program, 175** Room and Board (see Residence Halls; see also, Fees) **Russian Area Studies, Certificate Program, 175** Russian Courses, 216 (see also Modern Languages)

# S

Safety and Security, Campus, 27 Sales Management, Minor, (see also Professional Selling Certificate Program) Schedules, Student, 40 Additions to Student Schedules, 40 Guest Student Status, 40 Withdrawal, 40 Scholarships (University Programs), 59 Secondary Education (All Fields), Degree Programs, 117 Courses, 230 Secretarial Science (see Office Administration) Services for Students With Disabilities, 25 Sign Language (see American Sign Language) Sixty-Plus Program, 25 Small Business, Center for, 181 Small Business Management, Certificate Program, 175 Social Sciences, Associate Studies, 187 Social Sciences Division Major, 107 Social Work, Degree Program, 142 Courses, 249 Sociology, Degree Programs, 105 Courses, 221 Minor, 162 Sororities (see Greek Affairs) Spanish, Degree Program, 103 (see also Modern Languages) Courses, 216 Special Education, Degree Programs, 117 Courses, 233 Special Student, 36 Speech Language Pathology and Audiology, 142 Courses, 249 Minor, 162 Sports Activities (see Athletics) Statistics, Degree Program, 103 Courses, 214 Student Affairs, 22 Student Assistance Center, 25 Services for Students with Disabilities, 25 Student Center, Gardner, 23 Student Conduct, 26 (see also, Academic Dishonesty) Student Development, 26 Student Employment (see Financial Aid, see also Placement Services) Student Government (see Associated Student Government) Student Health Services, 26 Student Organizations, Directory of, 31 Student Teaching, 115 Study Abroad, 10 SUMMA St. Thomas Diploma Nursing Program, 90 Summer Sessions, 12 Supervision and Management, Certificate Program, 175 Supplemental Educational **Opportunity Grant, Federal (SEOG)** (see Financial Aid) Surgical Assisting Technology, Degree Program, 66 Courses, 196 Surgeon's Assistant, Certificate Program (Inactive), 176 Surgical Technologist, Certificate Program, 176 Surveying and Construction Engineering Technology, Associate Degree Program, 74 Courses, 200 Surveying and Mappaing, Baccalaureate Degree Program, 65 Courses, 200

# T

Teaching English as a Second Language (TEOSL) TESOL Validation, 116 Certificate Program, 176 **Technical Education, Degree Programs, 118** Courses, 230 Technical Training, Certificate Program, 176 Tech Prep program, 44 **Telephone Numbers, 4** Testing Service (see Counseling, Testing and Career Center) Theatre, Degree Programs, 144 Courses, 250 Minor, 162 Theatre Organizations, 251 **TOEFL** (see International Students and Scholars) Transfer Credit, 44 Transfer Module, 35 Transfer Students, 35

Transportation, Degree Program, 72 Certificate (Transportation Studies), 177 Courses, 194 Minor, 162 Travel and Tourism, B.A. in Geography, 101 Travel and Tourism, Certificate Program, 177 Tuition (see Fees) Tutorial Programs (See Developmental Programs)

# U

University of Akron Service Consortium (UASC), 12 University College, 88 Developmental Programs, 90, 185 General Education Requirement, 88-89 Objectives, 88 University Orientation Course, 90 (see also Orientation, New Student, 40) University Honors Program, 10, 94, 186 University Libraries, 19 University Program Board, 30 University Police, 27 Urban Studies, Center for, 181

# V

Veterans Expenses, 56 Volunteer Program Management, Certificate Program, 177

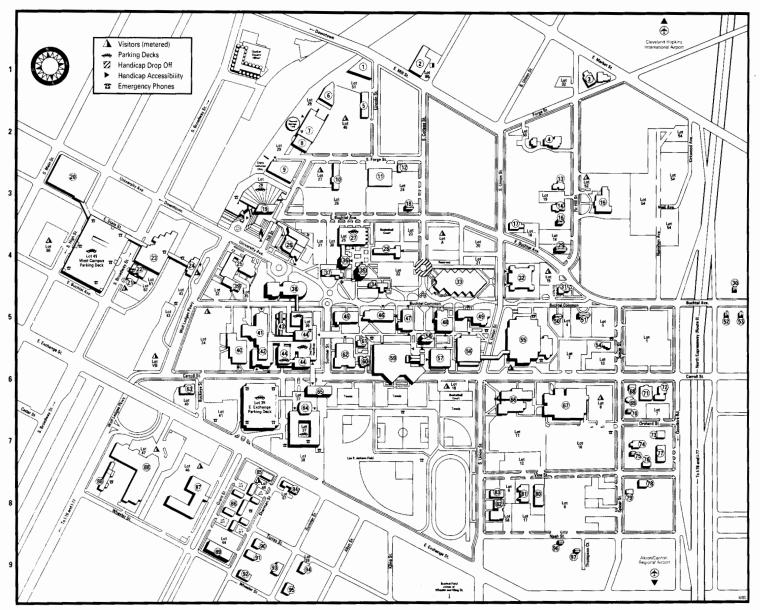
# W

Wayne College, 78 Admission, 78 Certificate Programs, 81 Gerontological Social Services, 81 Information Processing Specialist, 82 Medical Billing, 82 Medical Transcription, 82 Network Management Specialist, 82 Office Software Specialist, 82 Personal Computer Repair, 82 Credit and Grade-Point Requirements for Graduation, 46 Degree Programs, 78 Associate of Arts/Associate of Science, 78 Business Management Technology, 79 Environmental Health and Safety Technology, 81 Computer Service and Network Technology, 81 Office Administration, 80 Social Services Technology, 79 General Education and Transfer Program, 83 Withdrawal from Class, 40 Women's Studies, Certificate Program, 177, 201 Work-Study Program (see Financial Aid)

# Z

Zoology (see Biology Areas of Specialization)

# THE UNIVERSITY OF AKRON CAMPUS MAP



LOCATOR BLDG NO.

E5 44

# ACADEMIC BUILDINGS

- Auburn Science and Engineering Center
- G1 2 Akron Polymer Training Center Ayer Hall
- E5 |1 45
- 3 33 Ballet Center G5 Bierce Library
- G6 Carroll Hall 57
- **B4** 23 College of Business
- Administration Building F5 46 Crouse Hall
- Folk Hail
- 88 12 42 88 F3 D6 D4 D5 H5 Forge Building
  - Gladwin Hall
- 26 41 49 48 25 32 7 20 38 65 64 Guzzetta Hall Knight Chemical Laboratory
- Kolbe Hall
- G5 D4 H4 Leigh Hall
- McDowell Law Center Olin Hall
- Olson Research Center The Polsky Building Polymer Science Building E2 A3 E5 E6 E7
- Schrank Hall North Schrank Hall South
- 62 39 43 Simmons Hall
- E6 C4 D5 West Hall Whitby Hall
- F5 47 Zook Hall

#### ADMINISTRATIVE BUILDINGS 31 Admissions Building

Bel-Aire Building 1

BLDG NO.

LOCATOR

15

F1

- 60 21
- Boiler and Heating Plant 285 South Broadway Street Building 277 South Broadway Street Building
  - Buchtel Hali
- Carroll Street Substation
- Central Services Building
- Computer Center 222 Exchange Building
- 232 Exchange Building
- F6 B4 G5 C6 F3 D6 D7 E8 I4 E2 22 58 63 11 40 85 84 29 8 6 Alumni Association Center Forge Street Substation
  - Grounds Maintenance
  - 5 100 Lincoln Street Building
  - 10 North Hall
- E1 F2 E3 D3 9 Physical Facilities Operations Center H6 H4
  - Spicer Hall 143 Union Street Building 66 17

# MULTI-PURPOSE BUILDINGS

- Buckingham Building Center for Child Development 24
- 14 61 59 27 Computer Store
- C4 I3 F5 F6 F4 I2 J3 G6 Gardner Student Center Health Services
  - Hower House 4
  - 15 58 Martin University Center
  - Memorial Hall
- 17 67 Ocasek Natatorium

#### James A. Rhodes Health H6 55

LOCATOR

BLDG NO.

- and Physical Education Building
- F4 27 D3 19 Robertson Dining Hall E.J. Thomas Performing Arts Hall D3

#### RESIDENCE HALLS, FRATERNITIES ANDSORORITIES

# Alpha Delta Pi Sorority

- J8 79 J6 68 Alpha Gamma Delta Sorority
- J6 J6 F3 K7 H8 F4 J7 Alpha Kappa Alpha Sorority 69 18 77 82 35 75 90 51 30 Alpha Phi Sorority
  - Berns Residence Hall\*
- D9
- 15 K5 D9 Delta Gamma Sorority Delta Tau Delta Fraternity
  - 92 87
- Ellis House\* Gallucci Residence Hall C8
- (houses Honors Program) Garson Residence Hall
- E9 94
- K7 C9 H8 73 Glenville Residence Hall\*
  - 89 81 Grant Residence Center High-rise Joey Residence Hall\*
- 95 70 13 D9 Judson House\* J7 13

FA

- Kappa Kappa Gamma Sorority Lambda Chi Alpha Fraternity
- 28
  - Orr Residence Hall

Phi Delta Theta Fraternity 54

LOCATOR BLDG NO

15

K6

**J8** 

J6 19

E4

E4 D9

H8

- J5 J7 K5 74 52 Phi Gamma Delta Fraternity Phi Kappa Psi Fraternity

  - 50 Phi Kappa Tau Fraternity
  - Phi Sigma Kappa Fraternity Pi Kappa Epsilon 72
  - 78
- (Lone Star) Fraternity F5 34
  - Ritchie Residence Hall Sherman Residence Hall\*
- D9 91 97 Sigma Alpha Epsilon Fraternity 19

  - 71 96 Sigma Nu Fraternity Sigma Pi Fraternity
  - 37 Sisler-McFawn Residence Hall
  - Spanton Residence Hall Sumner Residence Hall\*
  - 36 93 16
  - Tau Kappa Epsilon Fraternity
  - 76 86 Theta Chi Fraternity Town Houses
- 13 J7 D8 K5 53 Triangle Fraternity
- Wallaby Residence Hall\* 83 H8
  - 80 Wallaroo Residence Hall\*

Privately owned residence halls

- Brown Street Residence Hall Bulger Residence Hall Chi Omega Sorority
- Concord Residence Hall\*