

CATALOGUE

OF

BUCHTEL
COLLEGE

AKRON, OHIO

1909-1910

THIRTY-NINTH
ANNUAL CATALOGUE

OF

BUCHTEL COLLEGE

AND

ACADEMY

FOR THE YEAR
1909 - 1910

AKRON : OHIO

PUBLISHED BY THE COLLEGE
APRIL, 1910

BUCHTEL COLLEGE

AND

ACADEMY

Founded in 1870 by the
OHIO UNIVERSALIST CONVENTION

Named in honor of
HON. JOHN R. BUCHTEL

CO-EDUCATIONAL

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Furnishes the highest grade of Classical, Literary
and Scientific instruction, under the immediate
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Three College Courses leading to the Baccalaureate
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For catalogue and other information address

A. B. CHURCH, D. D., LL. D., President,
AKRON, OHIO

CALENDAR.

1910.

January 28, Friday, 4:00 P. M.—First Half-Year closes.
February 2, Wednesday, 7:45 A. M.—Class work resumed.
February 22, Tuesday—Legal Holiday.
March 9, Wednesday, 9:30 A. M.—Mid-Year Meeting of Board of Trustees, Buchtel Hall.
March 11, Friday, 7:30 P. M.—Sophomore Ashton Prize Speaking.
March 22, Tuesday, 4:00 P. M.—Easter Vacation begins.
March 29, Tuesday, 7:45 A. M.—Class work resumed.
May 30, Tuesday—Legal Holiday.
June 4, Saturday, 12:00 M.—Senior Vacation begins.
June 10, Friday, 8:00 P. M.—Senior Class exercises of the Academy.
June 12, Sunday, 2:30 P. M.—Baccalaureate Service and Sermon, Crouse Gymnasium.
June 13, Monday, 10:00 A. M.—Senior Class Exercises.
June 13, Monday, 8:00 P. M.—Senior Promenade.
June 14, Tuesday, 9:30 A. M.—Annual Meeting of Board of Trustees, Buchtel Hall; 2:30 P. M.—Junior Ashton Prize Speaking.
June 14, Tuesday, 8:00 P. M.—President's Reception.
June 15, Wednesday, 9:30 A. M.—Commencement Address and Conferring of Degrees.
June 15, Wednesday, 2:00 P. M.—Meeting of Alumni Association at Buchtel Hall.
June 15, Wednesday, 8:00 P. M.—Reunion and Banquet for Alumni and former students.
June 16 to September 5—Summer Vacation.
September 6, Tuesday, 9:00 A. M.—College and Academy begin; registration and classification of students whose surnames begin with letters from A to M in forenoon; the remainder in afternoon.
September 7, Wednesday, 7:45 A. M.—Class Work begins.
November 24, Thursday—Thanksgiving Holiday.
December 2, Friday, 7:30 P. M.—Senior Ashton Speaking Contest.
December 17, Saturday—Christmas Recess begins.

1911

January 3, Tuesday, 7:45—Class Work resumed.
January 18, Wednesday—Founder's Day.
January 19 and 20, Thursday and Friday—Classification for Second Half-Year.
January 27, Friday, 4:00 P. M.—First Half-Year closes.
January 31, Tuesday, 7:45—Second Half-Year begins.
February 22, Wednesday—Legal Holiday.
March 8, Wednesday, 9:30 A. M.—Mid-Year Meeting of Board of Trustees, Buchtel Hall.
March 10, Friday, 7:30 P. M.—Sophomore Ashton Speaking Contest.
April 8, Saturday—Easter Recess begins.
April 18, Tuesday, 7:45 A. M.—Work will be resumed.
May 30, Tuesday—Legal Holiday.
June 3, Saturday—Senior Vacation begins.
June 9, Friday, 8:00 P. M.—Senior Class Exercises of Academy.
June 11, Sunday, 2:30 P. M.—Baccalaureate Service, Crouse Gymnasium.
June 12, Monday, 10:00 A. M.—Senior Class exercises.
June 12, Monday, 8:00 P. M.—Senior Promenade.
June 13, Tuesday, 9:30 A. M.—Annual Meeting of Board of Trustees, Buchtel Hall.
June 13, 2:30 P. M.—Junior Ashton Speaking Contest.
June 13, 8:00 P. M.—President's Reception.
June 14, Wednesday, 9:30 A. M.—Commencement Address and Conferring of Degrees.
June 14, Wednesday, 2:00 P. M.—Meeting of Alumni at Buchtel Hall.
June 14, Wednesday, 8:00 P. M.—Social Meeting and Alumni Banquet.

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*Deceased.

FACULTY, INSTRUCTORS AND OFFICERS*

For the Year 1909, 1910, and 1911.

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Messenger-Professor of Mental and Moral Philosophy
President's House, 250 East Buchtel Avenue

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336 East Buchtel Avenue

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479 Orchard Court

*Except the President, the arrangement is in order of appointment.

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*Instructor in Mechanical Drawing and Freshman
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26 South Maple Street

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432 Crosby Street

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258 Wooster Avenue

BEATRICE D. RENTSCHLER, A. B.,
Assistant in Chemistry
746 West Market Street

HAROLD HAINES,
Assistant in Biology
750 Carroll Street

JOSEPH HANAN,
Assistant in English
249 James Street

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483 Orchard Court

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69 Kirkwood Street

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1909-10

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The above named persons have signified their willingness to serve on the Reference Committee. From time to time, catalogues and such other advertising matter of Buchtel College, as may be at hand, will be sent to each member of the committee.

Parents desiring to inform themselves about college courses and methods, and students desiring to enter College, are advised to call upon some member of the committee who may reside in the vicinity.

ENDOWMENTS.

MESSENGER PROFESSORSHIP.

The Messenger Professorship of Mental and Moral Philosophy was endowed by Mrs. Lydia A. E. Messenger, late of Akron, in memory of her deceased husband, Rev. George Messenger.

HILTON PROFESSORSHIP.

The Hilton Professorship of Modern Languages was endowed by John H. Hilton, late of Akron.

PIERCE PROFESSORSHIP.

The Pierce Professorship of English Literature was endowed by Mrs. Chloe Pierce, late of Sharpsville, Pa.

BUCHTEL PROFESSORSHIP.

The Buchtel Professorship of Physics and Chemistry was named in honor of Mrs. Elizabeth Buchtel, late of Akron.

AINSWORTH PROFESSORSHIP.

The Ainsworth Professorship of Mathematics and Astronomy was endowed by Henry Ainsworth, late of Lodi.

RYDER PROFESSORSHIP.

The Ryder Professorship of Rhetoric and Oratory was established by the Board of Trustees in memory of Dr. William H. Ryder, late of Chicago.

MESSENGER FUND.

The Messenger Fund was created by Mrs. Lydia A. E. Messenger, late of Akron. The fund consists of \$30,000.

ISAAC AND LOVINA KELLY FUND.

The Isaac and Lovina Kelly Fund was created by Isaac Kelly, late of Mill Village, Pa. This fund consists of \$35,788.

WILLIAM PITT CURTIS FUND.

This fund was established by William Pitt Curtis, of Wadsworth, O. It now amounts to \$25,000.

PERPETUAL SCHOLARSHIPS.

Fifty perpetual scholarships of \$1,000 each have been established by the following donors:

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These Scholarships are intended to aid worthy and deserving students, and are awarded by a Scholarship Committee under authority from the Board of Trustees.

*Deceased.

†In honor of her father, Eliphas Burnham.

‡In memory of her father and mother, Mr. and Mrs. Israel Allyn, and her sister, Lucy Allyn.

GENERAL INFORMATION.

FOUNDATION.

Buchtel College was founded in 1870, by the Ohio Universalist Convention, and took its name from its most generous benefactor, Hon. J. R. Buchtel, who consecrated his life and wealth to its support. It was chartered by the Ohio Legislature in the same year as a College of Liberal Arts and Letters, and first opened its doors for the admission of students in September, 1872. It is designed to secure the highest grade of Classical, Scientific and Literary culture known to American Colleges.

LOCATION.

Buchtel College is located in Akron, Summit County, Ohio. This city, with a population of about 65,000, is situated in the midst of hills and valleys, and is one of the most picturesque in the country. It is a healthful city and easy of access, having direct connection with all parts of the country. It is located on the line of the Erie (New York, Pennsylvania & Ohio); Cleveland, Akron & Columbus; Cleveland, Terminal & Valley; Pittsburg & Western; Northern Ohio, and Baltimore & Ohio Railways; also on the A., B. and C., and Kent, Ravenna, Canton, Barberton and Wadsworth Divisions of the Northern Ohio Traction Company's electric lines.

BUILDINGS AND GROUNDS.

The College Campus comprises six acres, is situated on the highest eminence in the county and faces on Buchtel Avenue, one of the pleasant residence streets of the city. The Loop Line electric cars, which receive transfers from all city and suburban lines, pass the college gates.

At present there are eight buildings on the campus, these being only the beginning of the prospective quadrangle of the Greater Buchtel.

Owing to the fire of 1899 the Buchtel Hall, Knight laboratory, Curtis Cottage and Academy buildings and the heating plant are each new, with new furnishings and laboratory equipments, and are admirably adapted to the work required of them.

BUCHTEL HALL.

Buchtel Hall, designed for College classes in all work except Chemistry, is a beautiful building, classic in design and convenient in arrangement. As is shown by the cut, the main entrance is up a broad flight of marble steps to the first floor, which is high enough to leave the basement story almost entirely above ground. In the center of the first floor is the grand staircase and an open court extending to a skylight. There are four large recitation rooms with a Professor's private office connected with each on the first and the second floors. On the ground floor, besides a workshop and separate study, bicycle, and toilet rooms for young men and women, is a suite of six rooms well planned and equipped for the Physical Laboratories.

KNIGHT CHEMICAL LABORATORY.

The Knight Chemical Laboratory, for the construction of which Andrew Carnegie gave \$25,000, is a three story brick building containing eighteen rooms. It combines the best ideas of modern laboratory arrangements and is admirably equipped for the work of that department. A large and well lighted room is provided for the special library and reading room of the department, and in addition to the regular courses, laboratories have been provided for special courses in rubber and clay analysis, introductory to these great industries of the city.

BUCHTEL ACADEMY.

The Academy is designed for the convenience of the Preparatory and Art Schools. It is a roomy and convenient three-story building. On the ground floor are the Physical Laboratories, and the separate lockers and toilet rooms for young men and women. On the second floor are the Administration Offices and the main recitation rooms. On the third floor are the large Art Rooms and an Assembly Room.

FIRE PROOF.

These three buildings have the heating, ventilating and sanitary arrangement and appointments of the most approved kind known

to modern builders. With the Gymnasium, they are heated from one central heating plant.

ASTRONOMICAL OBSERVATORY.

The Observatory is intended for the use of students, and, although some of the apparatus is very delicate and costly, yet it will be freely placed in the hands of those students who prepare themselves for its use. It is furnished with the following instruments:

An Equatorial Telescope of 4.5 inches aperture.

A Meridian Circle of 3 inches aperture, provided with various necessary accessory apparatus, and so mounted that it can be used as a Zenith Telescope.

Two Astronomical Clocks, furnished with electric connections.

A Chronograph.

Various other minor apparatus.

CROUSE GYMNASIUM.

This building is named in honor of Hon. George W. Crouse, of Akron, one of the liberal benefactors of the College.

The structure is a substantial brick building, one hundred and two feet in length by fifty-three feet in breadth. The basement contains the locker, dressing and bathing rooms thoroughly furnished. On the first floor are the Directors' office and the Gymnasium proper, which is eighty-four feet long and forty-eight feet broad. This room is equipped with apparatus and offers facilities for physical development. A running gallery of twenty-five laps to the mile surrounds the room.

The Gymnasium is open at stated times for the exclusive use of the young women, and at other times for the exclusive use of the young men.

In addition to the above mentioned facilities for physical culture, the College possesses, only three squares away, extensive Athletic Grounds of four acres, which are admirably adapted for use of the students in playing base ball, foot ball, lawn tennis and similar games.

The Buchtel College Music School occupies certain rooms in the Gymnasium. A two-manual pipe organ is there for chapel use and instruction.

The Gymnasium is also used, for the present, as the chapel assembly room.

THE HEATING PLANT.

The Heating Plant is located in a building by itself, thus avoiding any danger from fire or explosion. The plant is equipped with a thoroughly modern smoke-consuming device. By means of conduits the steam is conveyed to the other buildings where fresh air is heated and forced through the rooms by the fan system.

CURTIS COTTAGE.

Curtis Cottage is the college home for women. It was completed and first occupied in January, 1905. It has eleven student rooms, uniform in size and furnishings and arranged for two students in a room,—parlors, dining room, kitchen, laundry and its own efficient hot water heating plant. It furnishes also a delightful suite of rooms for each of the women's fraternities.

The Cottage is in charge of a preceptress of culture and school experience, and provides, at a moderate expense, a home for women students, which is most modern and sanitary in all of its appointments, convenient and comfortable in its arrangements, and delightful and elevating in its social life.

THE PRESIDENT'S HOUSE.

The President's house is situated on the Campus within easy access of the other buildings; is a commodious, substantial brick structure with modern conveniences and is occupied by the President and his family.

AIM.

Buchtel College is organized and equipped to give to young men and women a wholesome physical development, a most thorough mental discipline, and a practical, altruistic, moral training; to hold up before them the noblest ideals of manhood and womanhood and to develop within them a genius for usefulness.

INSTRUCTION.

The instruction of the College aims to combine the advantages of the lecture, recitation and laboratory system.

COLLEGE COURSES.

The curriculum embraces:

First: A Classical Course.

Second: A Philosophical Course.

Third: A Scientific Course.

These are four-year courses leading to the degrees of A. B., Ph. B., and S. B., and are equal to those adopted by other similar institutions of the country.

ACADEMY COURSES.

In connection with the College, but occupying a separate building on the Campus and with a separate Faculty, is Buchtel Academy, in which students are thoroughly prepared for college entrance. Owing to limited numbers, the student is under the personal supervision of a strong corps of teachers and is afforded daily practical drill in class room and laboratory work.

BUCHTEL SCHOOL OF MUSIC.

The Music School is located at the College in Crouse Gymnasium. Thorough and technical training, beginning with fundamentals, is given in instrumental courses by capable and experienced specialists.

BUCHTEL SCHOOL OF ART.

The Art School is situated at the Academy Building in a specially arranged and equipped suite of rooms and is under the personal supervision of a trained and experienced specialist. The School offers excellent advantages for the study of Art. It embraces instruction in charcoal, crayon, pencil, pastel, oil and water color. Students work from original designs, life, casts, and still life.

LABORATORY AND APPARATUS.

The new Knight Chemical Laboratory with its ten separate and well equipped laboratory room, thesis, library and lecture rooms, affords the best of facilities for students pursuing this line of work. The large, well lighted and completely equipped general laboratories are well adapted to the work in elementary and in advanced chemistry while the separate laboratories for rubber, clay, cement, assaying, water analysis, gas analysis, physical chemistry and electrolysis offer excellent opportunities for research and specialization in many attractive and fruitful fields.

The laboratories for physics are arranged in the basement of Buchtel Hall. Six rooms are given to the use of experimental physics. The rooms for experiments in electricity and magnetism are free from iron in their construction, and solid masonry floors in all laboratories secure the delicate instruments from outside jar and disturbance.

Excellent facilities for work in photography are provided by a well equipped dark-room, and students in physical science are encouraged to become familiar with the best methods of experimental illustration.

The department of Natural Science is located in the new Buchtel Hall, where three laboratory and lecture rooms are fitted for work in biology and geology. The student is supplied with microscopes, reagents, microtomes, and other apparatus needful for thorough work in Biological research. A collection of minerals and crystals, together with maps, charts, and a paleontological cabinet, comprise the equipment for work in Geology.

The College is supplied with excellent surveying instruments in the way of compass, engineer's level, surveyor's transit with solar attachment for determining the true meridian independent of the needle, chains, tapes, poles, pins, etc.

The Astronomical Observatory is adequately equipped with efficient, delicate and costly instruments for carrying on in a practical laboratory way that line of higher mathematics.

BIERCE LIBRARY

The College library had its origin with a collection of works donated in 1874 by the late Gen. L. V. Bierce. During the

early days of the College the Library was augmented by books purchased from the proceeds of a bequest received from Gen. Bierce's estate. In recognition of this early gift the Library has been called the Bierce Library.

At the present time the Library is in Buchtel Hall and embraces about 9,000 bound volumes of standard works (exclusive of public documents). These books have been mostly selected with special reference to their use in connection with the various departments of college instruction. All are classified and arranged on the shelves by the Dewey system of classification. Since the fire of 1899 the Library has been reclassified and recatalogued and put in the best working condition for students.

In connection with the Library is the College Reading Room, which has upon its files the leading periodicals and newspapers of the day. These are selected, upon recommendation of the various professors, with special reference to supplementing their classroom instruction.

These periodicals, when bound, form a valuable part of the Reference Collection. Over 300 volumes have accumulated in the stock room since the fire. During the past year, through the kindness of Prof. A. S. Root, of the Oberlin College Library, and Miss Pauline Edgerton, of the Akron Public Library, many of the missing numbers and volumes destroyed by the fire were secured to complete the files with a view to binding. Through the kindness of friends of the college, 100 of these volumes have recently been bound and placed on the shelves. The Alumni Association have now started a fund for the binding of periodicals and books. This fund will put a large part of the remaining number in shape for better service and it is hoped that frequent additions will be made to insure the binding for the future. The Library is open during term time every week day except legal holidays. The hours are 7:30 a. m.—12.00 m. and 1:00 p. m.—5:00 p. m., except Saturday when they are 7:30 a. m.—11:30 a. m. Each student may draw two books at a time and keep them for a period of two weeks. Books from the reserve shelves, i. e. books reserved by the professors for class use cannot be taken from the

Library until 4:45 p. m. and must be returned before 7:45 a. m. of the following day.

A trained librarian of experience has charge of the Library to render it of greatest usefulness to the students.

ATHLETICS.

Recognizing the fact that physical training is as legitimate a part of any system of education as is the mental, Buchtel College has made ample provision for this course in education, in her large and well equipped Gymnasium and Athletic Field. Systematic instruction is given to both young men and women in the Gymnasium each year by trained instructors, and the young men are given systematic training and regular drill in track athletics. Public sports, such as foot ball, base ball, basket ball and lawn tennis are permitted and encouraged so far as is consistent with the student's health and with his progress in the class-room.

ORATORY AND DEBATE.

The importance of college people being able to give an intelligible and graceful expression of themselves is recognized and emphasized in special instruction in the spoken word and in prize contest in public speaking offered each year. These contests are open to members of the sophomore, junior and senior classes.

In argumentation and debate a thorough course is given each year in which all sophomores are required to participate.

A practice course in extempore and after-dinner speaking is required of all juniors.

DRAMATIC CLUB.

A Dramatic Organization is maintained by the students for mutual self-culture, and for the study of literature and the histrionic art. One or more public entertainments are given each year with credit to the club and the College.

All such literary organizations and efforts are approved and encouraged by the College.

CO-EDUCATION.

The College and Academy admit students of both sexes. No sex discrimination is made in requirements and equal educational advantages and honors are offered to each.

SOCIAL ADVANTAGES.

Realizing that education is a development of social courtesies and personal graces as well as the power of mental analysis, the student life at Buchtel College is so conducted as to afford opportunities for such culture. Young ladies and gentlemen, as such, mingle freely on the Campus, in the College halls and classrooms during recitation hours. Formal and informal social college functions, banquets, exhibitions and contests, receptions and class socials occur at intervals through the year, in which young ladies and gentlemen participate with members of the faculty and their friends.

The young ladies are under the general supervision of the lady members of the faculty and are made to feel free to go to them for counsel and advice.

RELIGION.

No restriction or coercion is imposed upon students in their exercise of religious beliefs. All students are asked to name the denomination of their choice on their registration and are expected to attend the church of that denomination while in College. Nearly all denominations are represented in Akron by flourishing churches. While the College has a denominational foundation and is reverently Christian in its social life and in the principles of its administration and instruction, yet in its internal economy it is in no sense sectarian. All students are required to attend chapel services.

DISCIPLINE.

The regulations for governing student life are few and simple, appealing to the student's self-respect and personal responsibility.

It is the policy of the government to allow in all things as much liberty as will not be abused, and the students are invited and ex-

pected to co-operate with the Faculty. Frequenting bar-rooms, billiard-rooms, or saloons, and all riotous and disorderly behavior, are forbidden. The use of tobacco and spirituous liquors about the college buildings and on the grounds is prohibited.

All students registering with the College put themselves under obligations faithfully to observe and obey the laws and regulations of the College and all authoritative acts of the President and Faculty and to use their influence by precept and example to induce others in like circumstances to do the same.

REGISTRATION AND CLASSIFICATION.

All students are required to present themselves to the Classification Committee of the College or Academy for registration and assignment of work, on or before the first day of each half-year. A classification card will be given each student showing the classes he is assigned to. This card must be presented to the Secretary of the College for his signature when arranging for term bills, and to each instructor for his signature immediately upon entering a class.

The card must then be returned to the Classification Committee, fully signed as above indicated, on or before the third day of the term.

DEGREES.

The degree of Bachelor of Arts will be conferred on students who have completed the Classical Course.

The degree of Bachelor of Philosophy will be conferred on those who have completed the Philosophical Course.

The degree of Bachelor of Science will be conferred on those who have completed the Scientific Course.

A thesis showing original research by the student may be presented for graduation.

Master's Degree.

The degree of A. M. will be conferred upon those who have acquired the degree of A. B. or Ph. B., and the degree of M. S. upon those who have acquired the degree of B. S. These degrees will be granted in not less than two years after graduation, unless

the applicant, in residence, can devote the larger part of his time to the work, when the degrees may be granted in one year.

The candidate must accomplish the equivalent of a full college year's work of thirty-two term hours, choosing his subjects as Majors and Minors, twenty-four of which must be in the Major field.

In the Minor, the work may be partly unduplicated undergraduate, but the applicant will be expected to carry it beyond the lines of usual college work. In the Major, the work must be confined to graduate subjects and methods, and in this a satisfactory thesis must be presented which will give evidence of original work in the investigation of some new field rather than to consist of a mere restatement of what is already known. The subjects and methods must have received the sanction of the professors in the departments chosen.

An examination will be required in both subjects.

Provided satisfactory arrangements are made, residence will not be required for graduates of this College in preparing for these degrees, although residence is recommended. Persons who have received the Bachelor's degree in any other college whose requirements for that degree are equal to those of Buchtel College may also be granted the Master's degree upon the above conditions, except that the courses must be taken in residence.

A candidate for either of these degrees, at any given commencement must present his thesis and report for examination not later than June 1st.

These degrees will not be granted for professional work leading to other degrees nor for journalistic work or teaching.

A fee of ten dollars will be charged for the Master's degree.

THE KATHERINE CLAYPOLE STUDENTS' LOAN FUND.

It is with pleasure we announce that there is now connected with Buchtel College a loan fund for the use of students who, in mid-term, as often happens, find themselves without sufficient means to complete the year's work. It is an experience common to most educational institutions to have almost yearly some of their best students subject to serious and discouraging loss of time by

being obliged to relinquish their work because their means have failed through no fault of their own but on account of an unavoidable and unlooked for combination of circumstances. It is equally well known that even small loans at such times help to tide over, and prevent much hardship. This help members of the faculty have furnished at times rather than see worthy students lose their course. But where there is a fund purposely provided, both faculty and students are relieved of all embarrassment in the matter.

To supply this need in Buchtel College, a number of women's organizations of Akron have created, and, through a committee, are managing a loan fund very appropriately dedicated as a memorial to one of their much loved members, Mrs. Katherine Claypole, the founder here of organized women's work, always deeply interested in young people, and for many years closely connected with Buchtel College.

Any friend of Buchtel College, of Mrs Claypole, and of young people, who wishes to assist by contributing to the fund or would like to know more of the details concerning it, will receive grateful response by writing any member of the committee.

Mrs. Chas. Brookover,
Mrs. Helen Raymond Wells,
Mrs. A. N. Bliss,
Mrs. E. A. Voris,
Mrs. Walter A. Folger,
Mrs. A. E. Foltz.

PRIZE FUNDS.

ALUMNI PRIZES.—A fund has been established by the Alumni of the College, the income of which is annually appropriated according to the following regulations:

1st. That student—being a member of the Senior Class of the Academy—who makes the highest average grade during the year in full Senior work in the Academy, and completes his Senior year without conditions, shall be entitled to free tuition during the succeeding year.

2nd. That student—being a member of the Freshman Class—who attains the highest average grade during the year in the regular Freshman work and completes his Freshman year without any conditions, shall be entitled to free tuition during the succeeding year.

3rd. That student—being a member of the Sophomore Class—who attains the highest average grade during the year in not fewer than thirty-two term hours above the Freshman year, and completes this year without conditions, shall be entitled to free tuition during the succeeding year.

4th. That student—being a member of the Junior Class—who attains the highest average grade during the year in not fewer than thirty-two term hours above the Freshman year, and completes this year without conditions, shall be entitled to free tuition during the succeeding year.

5th. In determining the award of prizes for any year, there shall be considered only grades made in regular class work at Buchtel College during that year in subjects completed before Commencement day.

6th. In case of a tie in any class the prize shall be equally divided.

7th. The prize for any class shall go to the student attaining the second highest average grade only in case the one ranking highest does not return to Buchtel College the next succeeding year.

OLIVER C. ASHTON PRIZES.—A fund consisting of \$3,000 has been established by the late Oliver C. Ashton endowing the O. C. Ashton Prizes for excellence in reading and recitation.

The annual income of this fund will be paid, one-third to competitors from the Senior Class, one-third to competitors from the Junior Class, and one-third to competitors from the Sophomore Class, in a first and second prize to each class, in the proportion of two to one.

These are public exercises, and will take place at stated times during the year.

PENDELTON LAW PRIZES.—For the purpose of encouraging the study of Law and Civil Government, a fund of \$1,000 has been established by Joy H. Pendleton, late of Akron, the annual income of which is used as prizes for essays in the Law Class. Two-thirds of such income is annually to be paid for the best essay, and one-third for the second best essay, on some subject of Law or Government announced by the Instructor in Law.

SCHOLARSHIPS.

On page twelve of this catalogue will be found a list of the endowed scholarships of the College. The donors of these scholarships may, at all times, designate one student who shall be entitled to free tuition in either the College or the Academy. So much of the income of these scholarships as is not thus used by the donors each year is at the disposal of the College for the purpose of aiding worthy and deserving students. In the distribution of these scholarship benefits by the College, in case the donor is deceased, preference will be given to the immediate descendants of the donor. This assistance will be granted to students only upon the recommendation of a Committee of the Faculty after careful inquiry as to the needs of each applicant. In making this inquiry the Committee will consider not only the pecuniary needs of the applicant but his general character as well, and where a renewal of aid is requested, the Committee will also take into account the student's previous record in scholarship and general deportment.

Students thus receiving aid from the College may be called upon to render services to the College for any part, or all, of such aid. They will be expected to maintain their standing in scholarship, and to conduct themselves as exemplary students. A scholarship is granted with the expectation that the student will complete his course of study at Buchtel College, and, without a reason that shall be satisfactory to the President, honorable dismissal will not be granted until full tuition and all other college dues have been paid.

Applications for scholarship aid may be addressed to the President.

ACADEMY SCHOLARSHIP.

To the student taking the full course in the Academy, making the highest average class standing throughout the course, and graduating without condition, shall be awarded a scholarship for two years in the College under the usual regulations.

HIGH SCHOOLS.—The College offers annually one scholarship to each of several high schools, to be awarded to the student standing highest during the last year of his High School course. Each scholarship entitles the holder to two years' free tuition in the College, subject to the following conditions:

1st. If he fail, without good reasons, to attain a grade of 70 per cent. in any of the studies pursued by him in any term, he shall pay the tuition for that term, unless by the middle of the succeeding term he shall have made up the deficiency.

2nd. Whenever, in the course of any term, his deportment shall not, in the judgment of the Faculty, be such as becomes a student, he shall pay the tuition for that term, and until such tuition is paid, it is understood that he shall not be entitled to further privileges in the College, nor to an honorable dismissal.

3rd. In case he shall leave Buchtel College, to attend any other College or School for the same work, without reasons which shall be satisfactory to the President of Buchtel College, he shall pay tuition for the entire period during which he shall have had the use of the scholarship, and failing to do so, it is understood that he shall not be entitled to an honorable dismissal.

TOWNSHIP.—Two standing scholarships in the Academy are offered to pupils in each Township of Summit County who complete the common school course in the country schools. These scholarships are awarded to the two pupils in each township passing the best examination before the County Board of School Examiners, under the provisions of the Patterson Law.

Students winning the High School or Township Scholarship must begin their course of study not later than one year from the opening of the following school year.

EXPENSES.

Term Bills—All term bills are due and payable on the first day of each half-year for the entire half-year. These bills must be paid, or arrangements for their payment made satisfactory to the Secretary of the College *before* entering any classes.

COLLEGE.

FULL TUITION—Each half-year.....	\$25.00
Five to eight hours, inclusive, per week.....	16.00
Four hours or less, per week.....	8.00
INCIDENTAL AND LIBRARY FEE for all students each half-year.....	4.25
LABORATORY FEES:	
CHEMISTRY, I and II, each.....	\$ 5.00
CHEMISTRY, III and IV, each.....	8.00
PHYSICS, I, II and III, each.....	2.50
SURVEYING	2.00
NATURAL SCIENCE—Biology, I and II, each.....	2.50
Botany, I and II, each.....	2.50
Zoology, I and II, each.....	2.50
Geology I	2.50
Physiology, I and II, each.....	3.50
Embryology	2.50
DEGREES conferred in course:	
Bachelor's Degree	\$ 5.00
Master's Degree	10.00

The fee for a degree is payable on or before the Monday before Commencement Day.

No tuition or other fees will be refunded except for absence on account of protracted sickness, and in such cases no reduction will be made in term bills if the student maintains his class standing.

To students working in the chemical laboratory any unused balance of their deposits will be returned at the end of the year.

YOUNG WOMEN.

The entire necessary living expense in Curtis Cottage is \$4.50 a week; bills rendered and payable at the end of each month.

All women students living and boarding away from home must live in the Cottage unless excused by the faculty.

The faculty reserves the right to assign two students to a room.

Cottage occupants supply their own bed linen, towels, toilet soap and table napkins; and also window draperies and rugs, if desired.

To a limited number of women students opportunities are given for self help in the Cottage.

YOUNG MEN.

The College does not at present provide dormitories for young men, but the faculty gives special care to the placing of young men in good families, with pleasant and comfortable home surroundings and conveniences, and takes a kindly supervisory interest in their student life.

Rooms furnished, heated and lighted can be secured within walking distance of the College for \$1.00 a week and upwards with two in a room; with one in a room, for \$1.50 and upwards.

Good table board can be secured at \$3.50 a week.

Abundant opportunities for self help in the city are offered young men to help defray the expenses of room and board, so that the living expense of young men run from \$1.00 a week upwards.

ACADEMY.

FULL TUITION—Each half-year	\$15.00
TWO STUDIES—Each half-year	10.00
ONE STUDY—Each half-year.....	5.00
INCIDENTAL AND LIBRARY FEE for all students each half-year.....	4.25
PHYSICAL LABORATORY FEE—Each half-year	1.50
CHEMICAL LABORATORY FEE—Each half-year.....	3.00
PHYSIOGRAPHY LABORATORY FEE—Each half-year50
BOTANY LABORATORY FEE—Each half-year50

All of the foregoing fees are payable at the Secretary's Office in Buchtel Hall.

No tuition or other fees will be refunded except for absence on account of protracted sickness, and in such cases no reduction will be made in term bills if the student maintains his class standing.

For more detailed information in regard to College entrance courses and expenses, address *A. B. Church, Pres.*, or *C. R. Olin, Sec'y.*

For more detailed information regarding Buchtel Academy, see pages 90-102, and address the *Principal* or *Pres. A. B. Church.*

MUSIC AND ART.

For details of expenses see pages 104-106.

BUCHTEL
COLLEGE

FACULTY, INSTRUCTORS AND OFFICERS

1909-1910

COLLEGE.

A. B. CHURCH, A. M., D. D., LL. D.,

PRESIDENT

Messenger-Professor of Mental and Moral Philosophy

CHARLES M. KNIGHT, A. M., Sc. D.,

DEAN OF THE FACULTY

Buchtel-Professor of Chemistry

JOSEPH C. ROCKWELL, A. M., Ph. D.,

Professor of Latin and Greek

CHARLES BROOKOVER, M. S., Ph. D.,

Professor of Natural Science

OSCAR E. OLIN, A. M.,

Professor of Economics and History, and Instructor in Mental and Moral Philosophy

PARKE R. KOLBE, A. M.,

Hilton-Professor of German Language and Literature

On Leave of Absence in Germany

ALBERT I. SPANTON, A. M.,

Pierce-Professor of English and Literature

PAUL BIEFELD, B. S., E. E., Ph. D.,

Ainsworth-Professor of Mathematics, Astronomy and Physics

CHARLES R. OLIN, M. S.,

Instructor in Mechanical Drawing and Freshman Mathematics

KATHARINE MERRILL, A. M.,

Professor of Rhetoric and Spoken English

SARAH DEMAUPASSANT PLAISANCE, A. M.,
Professor of Romance Languages

CHARLES BULGER, Ph. B.,
Acting Professor of German Language and Literature

R. W. PENCE, M. A.,
Assistant Professor of English for 1910-1911

ELIZABETH M. WEAVER, A. B., M. D.,
Lecturer to Women on Hygiene and Physical Training

COTTIE P. SHUMAN, Ph. B.,
Assistant in Chemistry

CLARENCE WEED,
Instructor in Mathematics and Athletic Director and Coach

BEATRICE D. RENTSCHLER, A. B.,
Assistant in Chemistry

MARJORIE MEANS,
Assistant in German

JOSEPH HANAN,
Assistant in English

HAROLD HAINES,
Assistant in Biology

HALLIE TILLSON, Ph. B.,
Librarian

COLLEGIATE COURSES.

The college year is divided into two terms of nineteen weeks each, not including the Christmas and Easter recesses. It is expected that students be present on the opening day of the term, and they are not allowed to prolong their recesses beyond the specified day.

THREE COURSES OF STUDY.

The College offers three regular courses of study, requiring the same amount of preparatory work, 15 units, and each requiring 128 term hours for graduation, or the equivalent of four years of study in the College. In keeping with the trend of higher education extensive opportunities for elective work are offered. These courses are:

1. The Classical Course, the usual course of that name, requiring extensive work in the Ancient Languages, and offering electives in Modern Languages, Mathematics, Latin, Greek, Literature, Philosophy and Science. This course leads to the degree of Bachelor of Arts.

2. The Philosophical Course, requiring the same work in Latin as the Classical Course or accepting an equal substitute of French, substituting the study of German for Greek, and offering the same range of electives as the Classical Course. This Course leads to the degree of Bachelor of Philosophy.

3. The Scientific Course, in which the language training is mostly confined to Latin, German or French and the English language. More preparatory work in the sciences is required for admission. This course is entirely on a footing with the other courses, offering wide training in Mathematics and the Sciences, while with the liberal use of electives, the student is enabled to cover much of the ground of the other courses. This course leads to the degree of Bachelor of Science.

ADMISSION AND RECORD.

Testimonials of good moral character must be presented by all applicants.

Students coming from other institutions of learning must furnish certificates of honorable dismissal.

Each candidate for college admission must have had at least a full high school preparation, or college preparatory course, amounting to 15 units and embracing the specific subjects named for college entrance.

Admission is by examination or on certificate.

In place of entrance examinations the following certificate plans will be accepted:

I. The certificate of principals of approved high schools and academies will admit students to the Freshman class on probation, and such statement must be a certification of the specific subjects in which the candidate has passed satisfactory examinations covering the requirements as stated for college entrance. Such certificate must be filed with the Committee on Classification by the candidate on application for entrance. Blank forms for the record of such work will be furnished on application to the President or Secretary of the Faculty.

II. The pass-cards, certificates and academic diploma of the State Board of Regents of New York State for the subjects which they cover will be accepted for college entrance on probation. Such credentials will not, however, be accepted for advanced standing.

No student will be admitted to the Freshman class who has an entrance deficiency of more than one unit, or the equivalent of a year's work.

Students admitted on probation, after reasonable trial will be advanced to full class standing on satisfactory evidence of ability and determination to maintain their class work.

Students having completed a course in Buchtel Academy will be admitted to the corresponding course of the College without further examination.

Arrangements can be made by the students for private instruction for the removal of conditions.

ADVANCED STANDING.

Applicants desiring to enter an advanced class, who do not present satisfactory grades from other colleges, will be examined in the studies of the lower classes or their equivalents, in the particular course to be pursued.

On the successful passing of such examinations the College will allow college credit at the rate of fifty per cent. in term hours for High School work, provided that it results in a full credit in term hours.

SPECIAL STUDENTS.

All students are advised to pursue a regular course of study, even if it cannot be completed.

But persons of proper age and character may be admitted as special students, not candidates for a degree, on the regular entrance requirements or if in the judgment of the Faculty, they are capable of sustaining themselves in class, and may elect such studies as they are qualified to pursue. They must file with the Committee on Classification certificates of their previous work,

Thus an opportunity is offered to a considerable number of young people who do not wish to spend time for a full course, but who desire some college work. Those preparing to teach, those fitting for business, or those who intend to give time to music or art, are especially thus accommodated. Such students will also find themselves proportionately advanced, should they later decide to take a regular course.

On the completion of their studies, such students will be granted a certificate stating the work completed.

REGULATIONS.

The following rules are to be observed by all students:

1. Required for a degree, 128 term hours; one term hour meaning one recitation or two hours of laboratory work per week for one semester.

2. The required Freshman Lectures and Gymnasium Drill shall count as one term hour.

3. The graduating thesis, if presented, shall be taken in the subject chosen as the student's major and shall count for two term hours, if carried satisfactorily beyond the regular classroom work.

4. Sixteen hours a half-year are counted full work for a student.

5. To prevent an aimless dissipation of time and energy each student is required to choose, at the beginning of the Sophomore year, his *major* group of studies with its required minors. The professor of the department in which the major is given will be the personal advisor of the student choosing that *major* in planning the remainder of his course.

6. No student is allowed to take more than 18 hours nor less than 14 hours a week, a half-year, without consent of the Faculty.

7. No credit will be given toward graduation for less than a full year's work in beginning languages, biology, and first year chemistry.

8. Students are required to hand to the Secretary of the Faculty, at least two weeks before the opening of any half-year, a list of their elective studies for that half-year.

9. No student is allowed to drop a study after the opening of a half-year without the consent of the Committee on Classification.

10. No student will be allowed to postpone a required study, or take a study in place of those prescribed, without permission of the Faculty.

11. No student will be allowed to change his election of studies for any half-year without permission of the Committee on Classification.

Students are advised to take fundamental studies early in the course, i. e., in the Sophomore year, such studies as are required in preparation for further work; also to follow lines of work rather than isolated studies.

12. During the course of study, unannounced examinations are held at the discretion of the professors, and announced examinations are required in case of absence or failure.

13. In case of failure in term examinations, the student may have one trial in private examination within two weeks; if he fails in this the subject must be taken over in class, or the grade made in some equivalent course.

14. The thesis for graduation if presented shall be handed to the professor in charge on or before the beginning of the Senior vacation.

15. A record of each student's standing is kept, which may be examined by committees, trustees, parents, and friends of the College.

16. Reports of the grades of all students are sent to parents or guardians at the close of each term.

Rules Governing Class Absences.

In Effect the First Day of the Term.

17. Beginning September, 1910, no unexcused absences will be allowed.

18. One unexcused absence in any subject per semester shall subject the student to special final examination in that subject. Two unexcused absences in any class per semester shall exclude the student from that class.

19. Excuses shall be granted by the President only, or by such Faculty officer as may be designated by him during his absence from the city. The student must present a written excuse from the President to the instructor in charge on the day of his reappearance in class; otherwise the absence shall stand as unexcused.

20. Any student having absences, in any subject, equivalent to the number of times that subject is recited in two weeks of the term, shall make up that work by special examination at the direction of the instructor in charge. Any work lost by reason of absences, may be required at the discretion of the instructor.

21. All omitted written work, laboratory work, tests and examinations must be made up as directed by the instructor.

Chapel Absences.

22. Absences from chapel any week in order to be excused must be explained to the President by Tuesday of the succeeding week or they will stand as unexcused absences. Six unexcused absences from chapel will subject the student to suspension from College by the President, and readmission can be gained only by a vote of the Faculty after being petitioned by the student suspended.

Class Conditions.

23. All class conditions incurred previous to the Senior year must be made up by the student in a manner satisfactory to the professor in charge before the end of the first succeeding semester or the subject will have to be taken over in class, or, if elective work, an equivalent credit in term hours may be made in some other course.

Senior Conditions.

24. Students having conditions in subjects taken must remove these by the close of the first month of the last term of the senior year or they will not be considered candidates for graduation.

Class Promotions.

25. Requirements for admission to the Freshman Class, the same as stated in the catalogue.

26. Freshmen will be promoted to the Sophomore Class whenever they have gained 29 term hours on Freshman work and removed all preparatory conditions.

27. Sophomores will be promoted to the Junior Class whenever they have gained 61 term hours and removed all Freshman conditions.

28. Juniors will be promoted to the Senior Class whenever they have gained 96 term hours and removed all conditions.

TERMS OF ADMISSION.

Unconditional requirements, (all courses): 15 units.

A unit being a full year's work in a subject with recitation periods of one hour held four times a week, or 45 minutes held five times a week.

CLASSICAL COURSE.

The candidate must present:

English (page 42).....	3 units
Mathematics (page 43).....	3 units
Latin (page 44).....	4 units
General History (page 47).....	1 unit
Elective (from the subjects on pages 44 and 47).....	4 units

PHILOSOPHICAL COURSE.

The candidate must present:

English (page 42).....	3 units
Mathematics (page 43).....	3 units
Foreign Languages (pages 44-46).....	4 units
History, General (page 47).....	1 unit
Elective (from the subjects on pages 44 and 47).....	4 units

SCIENTIFIC COURSE.

The candidate must present:

English (page 42).....	3 units
Mathematics (page 43).....	3 units
Foreign Languages (pages 44-46).....	4 units
Sciences (page 46) [one unit must be Chemistry or Physics].....	2 units
Elective (from the subjects on pages 44 and 47).....	3 units

In the Philosophical and Scientific Courses two units at least must be of one language. Not less than a full unit *in the beginning* of any language will be accepted toward this requirement.

For statement of prerequisite entrance requirements for the several major elective courses see pages 51 and 52.

ELECTIVE SUBJECTS.

The elective work for admission to any of the three courses may be made from the following subjects, details of which will be found on the pages referred to:—

Astronomy (page 44).....	$\frac{1}{2}$ unit
Botany (page 47).....	1 or $\frac{1}{2}$ unit
Chemistry (page 46).....	1 unit
Civics (page 47).....	$\frac{1}{2}$ unit
History, General (page 47).....	1 unit
History, English (page 47).....	1 or $\frac{1}{2}$ unit
History, Advanced U. S. (page 47).....	$\frac{1}{2}$ unit
Physics (page 46).....	1 unit
Physical Geography (page 47).....	1 or $\frac{1}{2}$ unit
Physiology (page 47).....	$\frac{1}{2}$ unit
Zoology (page 47).....	1 or $\frac{1}{2}$ unit

DEFINITION OF UNITS.

Following is a detailed statement of the requirements in each of the various subjects that may be offered for admission to college:

English, 3 Units.

The College Entrance Requirements in English, practically uniform throughout the United States, are as follows:

For 1910, 1911, 1912.

Required for Careful Study:—Shakespeare's "Macbeth," Milton's "Lycidas," "Comus," "L'Allegro," and "Il Penseroso;" Burke's "Speech on Conciliation with America," or Washington's "Farewell Address," and Webster's "First Bunker Hill Oration," Macaulay's "Life of Johnson," or Carlyle's "Essay on Burns."

Required for General Reading and Practice:—*GROUP I.*—(two to be selected): Shakespeare's "As You Like It," "Henry V," "Julius Caesar," "The Merchant of Venice," "Twelfth Night."

GROUP II.—(one to be selected): Bacon's "Essays," Bunyan's "The Pilgrim's Progress," Part I.; the "Sir Roger de Coverley Papers" in The Spectator, Franklin's "Autobiography."

GROUP III.—(one to be selected): Chaucer's "Prologue," selections from Spenser's "Faerie Queene," Pope's "The Rape of the Lock," Goldsmith's "The Deserted Village," Palgrave's "Golden Treasury" (First Series), Books II. and III. with especial attention to Dryden, Collins, Gray, Cowper and Burns.

GROUP IV—(two to be selected): Goldsmith's "The Vicar of Wakefield," Scott's "Ivanhoe" and "Quentin Durward," Hawthorne's "The House of the Seven Gables," Thackeray's "Henry Esmond," Mrs. Gaskell's "Cranford," Dickens' "A Tale of Two Cities," George Eliot's "Silas Marner," Blackmore's "Lorna Doone."

GROUP V—(two to be selected): Irving's "Sketch Book," Lamb's "Essays of Elia," De Quincey's "Joan of Arc" and "The English Mail Coach," Carlyle's "Heroes and Hero Worship," Emerson's "Essays" (Selected), Ruskin's "Sesame and Lilies."

GROUP VI—(two to be selected): Coleridge's "The Ancient Mariner," Scott's "The Lady of the Lake," Byron's "Mazeppa" and "The Prisoner of Chillon," Palgrave's "Golden Treasury" (First Series), Book IV., with special attention to Wordsworth, Keats and Shelley; Macaulay's "Lays of Ancient Rome," Poe's "Poems," Lowell's "The Vision of Sir Launfal," Arnold's "Sohrab and Rostum," Longfellow's "The Courtship of Miles Standish," Tennyson's "Gareth and Lynette," "Launcelot and Elaine," and "The Passing of Arthur;" Browning's "Cavalier Tunes," "The Lost Leader," "How They Brought the Good News from Ghent to Aix," "Evelyn Hope," "Home Thoughts from Abroad," "Home Thoughts from the Sea," "Incident of the French Camp," "The Boy and the Angel," "One Word More," "Herve Riel," "Pheidippides."

Equivalent readings may be accepted at the option of the instructor.

Students should bring a written statement from the principal or superintendent of the school attended, stating definitely the books read and the amount of time given to the work. They should also bring note-books or any other evidences of the work done.

Three years, with five recitations a week, should be given to the preparation in English, the work in Rhetoric and Composition being done simultaneously with the reading and study of the required English and American Classics.

Students, whose work proves defective in grammar, punctuation, or sentence structure will not be allowed to remain in the class in Freshman Rhetoric, but will be assigned work in the Academy until the deficiency is made up.

MATHEMATICS AND ASTRONOMY.

Arithmetic, Algebra, Plane and Solid Geometry are required for entrance into all courses. Astronomy may be offered as one of the electives in any course, but it is required in none.

Arithmetic.

A thorough practical acquaintance with Arithmetic is a prerequisite for all work in Mathematics. Accuracy and rapidity in using the four fundamental operations, addition, subtraction, multiplication, and division, upon decimal and common fractions as well as upon whole numbers is required. It is desirable that the student may have studied a book that makes some use of algebraic symbols.

Algebra, 1 1/2 Units.

The work in Algebra should include the following subjects: Fundamental operations, factors, multiples, fractions, simple equations, methods of elimination, problems, interpretation of solutions, involution, evolution, surds, exponents, complex numbers, quadratic equations, theory of quadratic equation, simultaneous quadratics, binomial theorem for positive integral exponents, ratio, proportion, variation, series and logarithms.

It is suggested that the time spent in preparing to meet this requirement be five 55-minute periods per week for a year and a half. It is further suggested that the work of the last half-year be done late in the preparatory school course in order that there may be close and ready articulation with the required mathematics of the freshman year in college. It is especially desirable that the student come to his college work with habits of neatness and accuracy well formed, and that he have some sense of mastery over so much of mathematics as he may have studied.

Geometry, 1 1/2 Units.

Plane and Solid Geometry. The set propositions required are those found in the older text books. Among the topics required may be mentioned: Plane rectilinear figures; the circle and the measure of angles; similar polygons; areas, regular polygons; the measure of the circle, the relation of lines and planes in space; the properties and measure of prisms, pyramids, cylinders, and cones; the sphere, and the spherical triangle.

From the demonstration of many original propositions and the solution of many original problems the student should have gained a fair degree of confidence in his own ability to build up a geometrical proof. Accuracy of statement and elegance of form are to be emphasized.

It is suggested that the time spent in preparing in Geometry be one and one-half school years and that the work of the last half-year come in the third or fourth year of the preparatory course.

Astronomy, 1/2 Unit.

A thorough knowledge of the fundamental facts and principles of Astronomy is required. Familiarity with so much of the science as is contained in Young's Elements of Astronomy will suffice.

FOREIGN LANGUAGES.

Latin. 1, 2, 3, or 4 Units.

Four units of at least four recitations a week are required for entrance to the Classical Course. One, two, three or four units may be offered for entrance in the Scientific or Philosophical courses, subject to the requirement that at least two units must be offered in some one foreign language.

First Year. (One Unit.) Collar and Daniell's First Latin Book or Bennett's Latin Lessons with twenty-five pages of Viri Romae or an equivalent.

Second Year. (One Unit.) Caesar's De Bello Gallico, Books I.-IV., or an equivalent, with thirty lessons in Prose Composition.

Third Year. (One Unit.) Cicero's Orations, four against Catiline, Poet Archias, the Manilian Law, Verres and Roscius. For the last two an equivalent may be offered. Thirty lessons in Latin Prose Composition based upon Cicero.

Fourth Year. (One Unit.) Vergil's Aeneid, Books I.-VI.

Grammar, including Prosody (New Allen and Greenough, Bennett or Harkness).

Greek. 1 or 2 Units.

One or two years of Greek may be offered for entrance.

First Year. Beginners' Lessons in Greek.

Second Year. Xenophon's Anabasis.

German. 1, 2, 3, or 4 Units.

One, two, three or four years of German may be offered for admission to the Scientific or Philosophical courses. Candidates must present from former teachers a full statement of work covered, texts used and time spent. No student will be allowed to enter a higher course than German IV. without examination or personal conference with the instructor in charge of the German Department.

The following work should be offered for one, two, three or four years' credit, respectively:

One Year. Joynes-Meissner's Grammar (Part I.) Fair equivalents in standard beginners' books will be accepted as substitutes. One hundred and fifty pages of simple German, in which should be embraced some of the best known songs and ballads and at least one longer story, such as Immensee, Germalshausen or Hoher als die Kirche. The candidate should be able to pronounce German correctly, to understand and form simple sentences and to write German script.

Two Years. In addition to the requirements for the first year the candidate should by review have accurately familiarized himself with the principles of grammar and should be able to translate with readiness easy connected English prose into German.

He should be able to write German from dictation and should have read at least one of the easier classics besides two hundred pages of easy prose.

Three Years. In addition to the requirements for the first two years the candidate should have read at least two more classic dramas, and at least one hundred pages of more difficult prose, such as Die Harzreise or selections from Dichtung and Wahrheit, and should be able to discuss these freely in the German language. He should show the results of an additional year's

drill in translating more difficult English prose into German either by writing or orally, and should have had instruction in the literary history of Germany in the later Classic and Modern Period.

Four Years. The work of this year should be a continuation on the groundwork of the first three years and should include at least eight hundred pages of reading, although a less number may be presented if such heavy works as Faust have been attempted. In addition the candidate should have a thorough knowledge of the history of German literature from the earliest periods, and should know something of Germany and modern German life. It is advised that some subjects of general practical interest as German schools, stores, meals and amusements be treated.

French. 1 or 2 Units.

One or two years of French may be offered for admission to the Scientific or Philosophical courses. Candidates must present from former teachers a full statement of work covered, texts used and time spent.

The following work should be offered for one or two years' credit, respectively:

One Year. A thorough knowledge of the leading principles of French grammar as set forth, for instance, in Fraser and Squair's. An accurate acquaintance with the more common irregular verbs. The ability to translate easy English prose into French and to read easy French at sight. The ability to pronounce French and the careful reading of two hundred pages of less difficult French.

Two Years. In addition to the above the candidate should know accurately all irregular verbs in common use and should be able to read a page of French with accurate pronunciation. He should have read at least four hundred pages of various authors which should include two or three classic dramas. He should have had some practice in writing from dictation and should be able to translate ordinary English prose into French.

SCIENCES.

Physics. 1 Unit.

Recitations at least four times per week for a school year, together with a note-book, containing the description and results of at least fifty experiments, neatly recorded.

Chemistry. 1 Unit.

Recitation three times per week for a school year, together with laboratory practice for two hours per week and a note-book containing an account of all experiments made by the student's own hands, with sketches of the apparatus used.

Zoology. 1/2 or 1 Unit.

To count for one unit, the course should extend throughout a year of 36 weeks, four times per week, reciting at least 45 minutes. One-fourth should be laboratory work in dissections and drawings. Drawings and notes should be presented to show the nature of the work done. Davenport or any good elementary text.

Botany. 1/2 or 1 Unit.

If offered for one unit it should consist of thirty-six weeks of work, four times per week, at least one-fourth of which should be of the nature of field or experimental work and dissections. Andrew's or Bergen's Botany. Note-book required.

Physiology. 1/2 Unit.

Only work done above the grades will count for entrance. It should consist of eighteen weeks' work, four times per week, of at least 45-minute periods each. Not less than about twenty hours of laboratory work, of dissections, drawings, and experiments should be offered. Martin's Human Body (briefer course) revised by Fitz is recommended as a good text.

Physical Geography or Physiography. 1/2 or 1 Unit.

Four times per week for one half-year. A good text book, such as Davis' Physical Geography, should be supplemented by field excursions and laboratory, to cover about one-fourth of the time. Note-book required.

NOTE:—In all science subjects two periods of laboratory or experimental work should count as the equivalent of one recitation.

HISTORY AND CIVICS.

Advanced U. S. History. 1/2 Unit.

One half-year's work with any approved High School text book.

General History. 1 Unit.

The equivalent of one year's work in Ancient and Modern History, using any approved High School or Academy text.

English History. 1/2 or 1 Unit.

One half-year's work in High School or Academy, using any standard text.

Civics. 1/2 Unit.

One half-year work in Civil Government. Only High School or Academy work accepted.

REQUIRED
AND
ELECTIVE
COURSES

REQUIRED STUDIES.

1910-1911.

The following table shows the work of the Freshman year, for the various courses. All of the work is required:

CLASSICAL COURSE.

First Half-Year.	Term Hrs.	Second Half-Year.	Term Hrs.
Greek I.	4	Greek II.	4
Latin I.	3	Latin II.	3
*Mathematics I.	4	*Mathematics II.	3
or American History.....	3	or English VI.	3
Biology I. or Chemistry I.....	3	Biology II. or Chemistry II.....	3
Rhetoric I.	2	Rhetoric II.	2
Gymnasium	1	Gymnasium	1

PHILOSOPHICAL COURSE.

First Half-Year.	Term Hrs.	Second Half-Year.	Term Hrs.
German I.	4	German II.	4
Latin I. or French I.....	3	Latin II. or French II.....	3
*Mathematics I.	4	*Mathematics II.	3
or American History.....	3	or English VI.	3
Biology I. or Chemistry I.....	3	Biology II. or Chemistry II.....	3
Rhetoric I.	2	Rhetoric II.	2
Gymnasium	1	Gymnasium	1

SCIENTIFIC COURSE.

First Half-Year.	Term Hrs.	Second Half-Year.	Term Hrs.
Rhetoric I.	2	Rhetoric II.	2
German I.	4	German II.	4
Mathematics I.	4	Mathematics II.	3
Biology I. or Chemistry I.....	3	Biology II. or Chemistry II.....	3
Mechanical Drawing	4	Descriptive Geometry	4
or French	3	or French	3
Gymnasium	1	Gymnasium	1

*Students in the Classical and Philosophical Courses must take at least three term hours of Mathematics during their Freshman year.

MAJORS AND MINORS.

A careful study of the following will show the list of majors, with the required minor for each, which may be elected, and the prerequisite entrance requirements, (which must be included in the student's preparation for college), necessary to enter each major. All major and minor work must be outside of the student's Freshman requirements.

Twenty-four term hours above the Freshman year is the minimum requirement for a major.

Leading to the Degree of A. B.

Special Prerequisite entrance requirements for this course see Page 44.

Majors.

I. In Greek.

Twenty-four term hours of Greek above the Freshman requirements constitute a major in Greek. The History of Greek Sculpture will count toward this major.

(See page 69.)

II. In Greek and Latin.

Of the twenty-four term hours necessary for this major, twelve term hours at least must be in the Greek language above the Freshman year.

Required Minors. Term Hrs.

English9
 Science6
 Philosophy, or Logic
 and Economics6

Same as Major I.

Latin4 units
 General History1 unit

Same as Major I.

Leading to the Degree of Ph. B.

III. In Latin.

Twenty-four term hours of Latin above the Freshman requirements constitutes a major.

(See page 72.)

IV. In German.

A minimum of twenty-four term hours of German above the Freshman year constitutes a major.

(See page 66.)

V. In Romance Languages and German.

Eighteen hours of Romance Language and six hours of German above the Freshman year constitute a major.

(See page 64.)

VI. In English Literature.

A minimum of twenty-four term hours above Freshman requirements constitutes a major in English Literature.

(See page 61.)

VII. In English Literature and Public Speaking.

Ten term hours of public speaking and fourteen of English Literature above the Freshman requirements constitutes this major.

(See page 86.)

Same as Major I.

Latin, 4 units of the required 15.

Same as Major I.

Same as Major I.

Science6
 English History6
 Philosophy, or Logic
 and Economics6
 Same as for Major VI.

Leading to the Degree of Ph. B.

VIII. In Philosophy and Economics. Twelve term hours each. (See page 80.)	Science6 English9 Foreign Language6	General History.....1 unit
IX. In Economics and History. Twelve term hours each above the Freshman requirements. (See page 58.)	Same as Major VIII.	General History.....1 unit
X. In History and Philosophy. Twelve term hours each above the Freshman requirements. American History taken as a Freshman requirement cannot count for a major. (See page 71.)	Same as for Major VIII.	General History.....1 unit

Leading to the Degree of B. S.

XI. In Chemistry and Physics. Eighteen term hours in Chemistry above Freshman requirements and eight hours of second year Physics. (See page 56.)	English9 Natural Science6 Philosophy, or Logic and Economics6	Same as for Major XI.
XII. In Physics and Astronomy. Sixteen term hours of Physics, six hours of Astronomy, and four hours of Analytics. (See page 85.)	English9 Science6 Modern Language, or Philosophy or Economics and Logic.....6	
XIII. In Mathematics. Six term hours of Analytics and Surveying. Six term hours of Analytic Mechanics. Six term hours of Differential and Integral Calculus. Six term hours of Advanced Calculus and Differential Equations. (See page 75.)	English9 Chemistry or Physics.....6 Philosophy, or Logic and Economics6	
XIV. In Natural Science. Twenty-four term hours above the Freshman requirements in Biology I. and II. (See page 81.)	English9 Physics8 Philosophy, or Logic and Economics6	
XV. In Natural Science and Chemistry. Twelve term hours in Chemistry above the Freshman requirements and an equal amount of Natural Science above Freshman required Biology I. and II. (See page 81.)		

SCHEDULE OF CLASSES, 1910-11.

FIRST HALF					
Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
Psychol. (I.) Zoology (I.) Anal. Geom. (III.) Bible Lit. (XI.) Latin (I.) German (III. a) French (I. a)	Am. Hist. (I.) Hist. Zool. Calculus (V.) Chaucer (V.) Latin (V.) German (IX.) French (III.) Rhet. (I. a)	Psychol. (I.) Zoology (I.) Anal. Geom. (III.) Bible Lit. (XI.) Latin (I.) German (III. a) French (I. a)	7:45 Am. Hist. (I.) Hist. Zool. Calculus (V.) Chaucer (V.) Latin (V.) German (IX.) French (III.) Rhet. (I. b)	Psychol. (I.) Zoology (I.) Anal. Geom. (III.) Bible Lit. (XI.) Latin (I.) German (III. a) French (I. a)	Am. Hist. (I.) Calculus (V.) Latin (V.) French (III.)
Economics (I.) Geology (I.) Algebra 2 Grp's Poet. Romant. (IX.) Public Speak. (I.) Greek (III.) Greek (V.) German (VII.) Spanish (I.)	Polit. Sc. (II.) Botany (I.) Shakesp. (VII.) Rhet. (I. b) Class. Archeol. French (VII.) German (XI.)	Economics (I.) Geology (I.) Algebra 2 Grp's Poet. Romant. (IX.) Public Speak. (I.) Greek (III.) Greek (V.) German (VII.) Spanish (I.)	8:40 Polit. Sc. (II.) Botany (I.) Shakesp. (VII.) Rhet. (I. b) Class. Archeol. French (VII.) German (XI.) Spanish (I.)	Economics (I.) Geology (I.) Algebra 2 Grp's Poet. Romant. (IX.) Public Speak. (I.) Greek (III.) Greek (V.) German (VII.) Spanish (I.)	Algebra 2 Grp's Shakesp. (VII.)
Eng. Hist. (III.) Physics (I.) Soph. Lit. (I.)	Logic Physics (III.) Hist. Eng. Lang. (III.) Public Speak. (III.) Greek (I.) Germ. (I.) French (V.)	Eng. Hist. (III.) Physics (I.) Soph. Lit. (I.)	9:30-9:50 Logic Physics (III.) Hist. Eng. Lang. (III.) Public Speak. (III.) Greek (I.) Germ. (I.) French (V.)	Eng. Hist. (III.) Physics (I.) Soph. Lit. (I.)	Logic Physics (III.) French (V.)
Greek (I.) Germ. (I.) French (I. b)	Public Speak. (III.) Greek (I.) Germ. (I.) French (V.)	Greek (I.) Germ. (I.) French (I. b)	10:45 Biol. (I a, Lb.) 9:50-11:40 Astronomy (I.) Latin (XI. or XIII.) Germ. (V.) Rhet. (III.)	Latin (IX.) Germ. (XIII.) French (I. b)	
Ethics (I.) Chem. (I. b) Dif. Eq. (VII.) Latin (III.) Germ. (III. b) Rhet. (V.)	Biol. (I. a, b) Chem. (V.) Astronomy (I.) Latin (XI. or XIII.) Germ. (V.) Rhet. (III.)	Ethics (I.) Chem. (I. a) Dif. Eq. (VII.) Latin (III.) Germ. (III. b)		Ethics (I.) Chem. (I. b) Dif. Eq. (VII.) Latin (III.) Germ. (III. b)	Astronomy (I.)
Chem. (I. a) Biol. (I. a)	Chem. (V.) Biol. (I. b) Mech. Draw. 1-4	Chem. (I. b) Zool. (I.) Mech. Draw. 1-4	NOON 1:00-2:45 Chem. (V.) Biol. (I. b) Mech. Draw. 1-4 Physics (I.)	Chem. (I. a) Physiol. (I.) Physics (I.)	
Chem. (III.)	Chem. (V.)	Chem. (III.) Zoology (I.)	2:45-4:30 Chem. (V.) Physics (III.)	Chem. (III.) Physiol. (I.) Physics (III.)	

SCHEDULE OF CLASSES, 1910-11.

SECOND HALF

Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
Psychol. (II.) Zoology (II.) An. Geom. (IV. a) Surv. (IV. b)	Hist. Europe (II.) Embryology Calculus (VI.)	Psychol. (II.) Zoology (II.) An. Geom. (IV. a) Surv. (IV. b)	7:45 Hist. Europe (II.) Embryology Calculus (VI.)	Psychol. (II.) Zoology (II.) An. Geom. (IV. a) Surv. (IV. b)	Hist. Europe (II.) Calculus (VI.)
Am. Poet. (XII. a) Latin (II.) Germ. (IV. a) French (II. a)	Epic Poet. (VI.) Latin (VI.) Germ. (X.) French (IV.) Rhet. (II. a)	Am. Poet. (XII. a) Latin (II.) Germ. (IV. a) French (II. a)	Epic Poet. (VI.) Latin (VI.) Germ. (X.) French (IV.) Rhet. (II. b)	Am. Poet. (XII. a) Latin (II.) Germ. (IV. a) French (II. a)	Epic Poet. (VI.) Latin (VI.) French (IV.)
Sociology Geology (II.) Trig. 2 Grp's Vict. Poet. (X.) Public Speak. (II.) Greek (IV.) Greek (VI.) Germ. (VIII.) Spanish (II.)	Polit. Sc. (I.) Botany (II.) Shakesp. (VIII.) Rhet. (II. b) Class Archeol. Germ. (XII.) French (VIII.)	Sociology Geology (II.) Trig. 2 Grp's Vict. Poet. (X.) Public Speak. (II.) Greek (IV.) Greek (VI.) Germ. (VIII.) Spanish (II.)	8:40 Polit. Sc. (I.) Geology (II.) Trig. 2 Grp's Shakesp. (VIII.) Rhet. (II. b) Class Archeol. Germ. (XII.) French (VIII.)	Sociology Geology (II.) Trig. 2 Grp's Vict. Poet. (X.) Public Speak. (II.) Greek (IV.) Greek (VI.) Germ. (VIII.) Spanish (II.)	
Engl. Hist. (IV.) Physics (II.) Soph. Lit. (II.) Greek (II.) Germ. (II.) French (II. b)	Public Speak. (IV.) Physics (IV.) Word Study (IV.) Greek (II.) Germ. (II.) French (VI.)	Engl. Hist. (IV.) Physics (II.) Soph. Lit. (II.) Greek (II.) Germ. (II.) French (II. b)	9:30-9:50 Public Speak. (IV.) Physics (IV.) Word Study (IV.) Greek (II.) Germ. (II.) French (VI.)	Engl. Hist. (IV.) Physics (II.) Soph. Lit. (II.) Latin (X.) Germ. (XIV.) French (II. b)	Physics (IV.) French (VI.)
Ethics (II.) Chem. (II. b) Dif. Eq. (VIII.) Latin (IV.) Germ. (IV. b) Rhet. (VI.)	Econom. (II.) Biol. (II. a, b) Chem. (IV.) Astron. (II.) Latin (XII. or XIV.) Germ. (VI.) Rhet. (IV.)	Ethics (II.) Chem. (II. a) Dif. Eq. (VIII.) Latin (IV.) Germ. (IV. b)	10:45 Econom. (II.) Biol. (II. a, Lab.) 9:50-11:40 Astron. (II.) Latin (XII. or XIV.) Germ. (VI.) Rhet. (IV.)	Ethics (II.) Chem. (II. b) Dif. Eq. (VIII.) Latin (IV.) Germ. (IV. b)	Astron. (II.)
Chem. (II. a) Biol. (II. a)	Chem. (VI.) Biol. (II. b) Descr. Geom. 1-4 Surveying	Chem. (II. b) Zool. (II.) Descr. Geom. 1-4 Surveying	NOON 1:00-2:45 Chem. (VI.) Biol. (II. b) Descr. Geom. 1-4 Physics (II.)	Chem. (II. a) Physiol. (II.) Physics (II.)	
Chem. (IV.)	Chem. (VI.) Zool. (II.)	Chem. (IV.) Zool. (II.)	2:45-4:30 Physics (IV.)	Chem. (IV.) Physiol. (II.) Physics (IV.)	

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CHEMISTRY.

PROFESSOR KNIGHT.

COTTIE P. SHUMAN, PH. B., ASSISTANT.

BEATRICE D. RENTSCHLER, A. B., ASSISTANT.

Major: Eighteen term hours in Chemistry above the Freshman year and eight hours in second year Physics are the minimum requirements for a major in Chemistry and Physics, first year Physics being a prerequisite for this major.

- I. (a) *General Chemistry.*—(*First Half-Year.*)—A study of the newer theories of Chemistry; Inorganic Preparations. Four hours per week. Mo., 1:00 to 2:45; We., 10:45; Fr., 1:00 to 2:45. (Three term hours.) Offered to Freshmen who have taken a year of Chemistry in preparatory school.
- I. (b) *General Chemistry.*—(*First Half-Year.*)—Four hours per week. Mo., Fr., 10:45; We., 1:00 to 2:45. (Three term hours.) For Freshmen beginning Chemistry.
- II. (a) *General Chemistry.*—(*Second Half-Year.*)—Four hours per week. Mo., 1:00 to 2:45; We., 10:45; Fr., 1:00 to 2:45. (Three term hours.) Inorganic Preparations; Blow-pipe Analysis. This course is for Freshmen who have taken Course I. a.
- II. (b) *General Chemistry.*—(*Second Half-Year.*)—Four hours per week. Mo., Fr., 10:45; We., 1:00 to 2:45. (Three term hours.) Inorganic Preparations. This course is given for Freshmen who have taken Course I. b.

The elements of inorganic chemistry are taught by recitations, lectures and practical work in the laboratory. Each student is assigned a desk in the laboratory, furnished with apparatus and chemicals, and it is required that most statements shall be confirmed by experiment and illustrated before the class; each student is further required to manufacture one or more salts under each basic element, and to explain fully the process and principles involved and exhibit to the class the results of the work.

An elementary course of blow-pipe analysis is given in connection with the study of the metallic elements and their occurrence in ores and minerals.

- III. *Qualitative Analysis.*—(*First Half-Year.*)—Six hours per week. Mo., We., Fr., 2:45 to 4:30. (Three term hours.)
- IV. *Quantitative Analysis; gravimetric and volumetric.*—(*Second Half-Year.*)—Six hours per week, Mo., We., Fr., 2:45 to 4:30. (Three term hours.) Open to students who have taken qualitative analysis. The work will be upon simple salts and minerals.
- V. *Organic Chemistry.—Recitations and Laboratory practice.*—(*First Half-Year.*)—Four hours per week. Tu., 10:45 and 1:00 to 2:45; Th., 1:00 to 2:45. (Three term hours.) Students make and test the great classes of general organic compounds. Required of all students who select Chemistry as their major subject.
- VI. *Organic Chemistry.*—(*Second Half-Year.*)—Advanced Course. A continuation of Course V. Topic work along the line of recent discoveries. Attention will be given to industrial applications. Four hours per week. Tu., 10:45 and 1:00 to 2:45; Th., 1:00 to 2:45. (Three term hours.) Required of all students who select Chemistry as their major subject.
- VII. *Quantitative Analysis.*—(*First Half-Year.*)—Six hours per week. Mo., We., Fr., 2:45 to 4:30. (Three term hours.) There will be technical analysis, such as the examination of coal; limestone; water; milk and foods, for adulterations. Course IV. is required before this course can be selected.
- VIII. *Quantitative Analysis.*—(*Second Half-Year.*)—Six hours per week. (Three term hours.) Time of work arranged after class is organized. Work will be along technical lines. Chemistry of clays and glazes.—Chemistry of India rubber, Chemistry of cements, and Agricultural Chemistry may be selected.

THE CHEMISTRY OF INDIA RUBBER.

Beginning with the College year 1910-'11, a course of training in the chemical examination of crude and cured rubbers will be offered to students who have finished a course in Quantitative Analysis and Organic Chemistry. A special laboratory is equipped with machinery for compounding and curing rubber, and is at the service of students in this department.

FIRE ASSAY OF ORES.

A course in the assaying of gold, silver and lead ores will be open for students pursuing Technical Analysis during the winter of 1910-'11.

Industrial Chemistry is taught by lectures and laboratory practice. Whenever possible, actual products are exhibited to the students and the manufacturing processes reproduced in miniature. The great losses by imperfect methods of manufacture and by waste products are pointed out and the student is taught to see the true economy of production. Illustrative of the topics studied, visits are made to various manufacturing establishments and an opportunity is given to see manufacturing operations in actual working. Akron and the neighboring village of Barberton afford a varied field for the study of chemistry, applied in the industries, as shown in a partial list of prominent manufactories:

The making of pottery and various clay products.

The manufacture of India rubber products, both hard and soft.

The manufacture of paper and straw-board.

The manufacture of artificial ice.

The making of soda ash.

The manufacture of paints and varnishes.

ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR OLIN.

Major: Economics can be combined with Philosophy for a major, "Philosophy and Economics," twelve hours of each. Also with History for a major, "History and Economics," twelve hours of each.

Such students as desire to take all the work in this department are advised to take Courses I. and II. in the Sophomore year.

The courses are so arranged that the first three or the first four may be taken in consecutive terms and should be taken in the order given. Course I. should precede any other; II. should precede III.; while IV. and V. may be taken in association or succession, and may follow I.

The object of the work is to give the student a comprehensive grasp of the leading economic and political theories and their application to present-day problems. Emphasis is placed upon theoretical and historical development as alone affording a sure basis for the more practical part of the work.

Course I.—Economics I.—Political Economy.—(First Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.)
Text-book: Ely's Outlines, revised edition, supplemented by essays, collateral readings and observations. References to Seligman, Fetter, Seager, Laughlin, Blackmar, Bullock, Fairchild, and others.

This is an introductory course, designed for the study of the leading principles of the science and aiming to acquaint the student with the data of economic inquiry and the nature of economic laws.

Course II.—Political Science I.—(Second Half-Year.)—Tu., Th., 8:40. (Two term hours.) Text-book: Leacock's Elements of Political Science.

A study of the nature of the state, the organization of government of every kind, and the province of government. The course is designed to open the field of Political Science and lay a foundation for later College or University work.

Course III.—Political Science II.—Federal Government. (First Half-Year.)—Tu., Th., 8:40. (Two term hours.)

This course designs a study of Federal Government, by a comparative study of the organization of the Federal governments of the world. Lecture, library and research work.

Course IV.—Sociology.—(Second Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.) Text-book: Fairbank's Introduction to Sociology is read, essays, and library work.

An elementary course designed to introduce the student to the principles of human association and to develop the power of observing and analyzing social facts. References: Ely, Vincent and Small, Ross, Blackmar and others.

Course V.—Economics II.—Economic Problems.—(Second Half-Year.)—Tu., Th., 10:45. (Two term hours.)

A detailed study of the problems and theories involved in some of the great economic questions now before the American people, such as railroad transportation, taxation, corporations, money, and banking. The work is based upon some authoritative text, and includes library work and the drafting of bills and debating them in class. References: All late Economic books, journals, and periodicals.

ENGLISH.

PROFESSOR SPANTON.

PROFESSOR MERRILL.

PROFESSOR PENCE.

RHETORIC AND SPOKEN ENGLISH.

PROFESSOR MERRILL.

Purpose. The purpose of this department is to train the student to express his ideas correctly and effectively by means of both the written and the spoken word. Hence spoken English is given a large place in the instruction in Rhetoric, the ability to speak one's thoughts with clearness, force, and ease being regarded of no less value and importance than the ability to write them.

Required work. All the courses offered in Rhetoric and Spoken English are required.

I. Freshman Rhetoric.—(First Half-Year.)—Two sections. Tu., Th., 7:45; Tu., Th., 8:40. (Two term hours.) Required of all Freshmen. A thorough review of the principles of style. Text-book. Weekly themes.

II. Freshman Rhetoric.—(Second Half-Year.)—Two sections. Tu., Th., 7:45; Tu., Th., 8:40. (Two term hours.) Required of all Freshmen. The forms of prose discourse, especially narration and description. Text-book. Weekly themes.

- III. *Exposition.*—(*First Half-Year.*)—Tu., Th., 10:45.
(Two term hours.) Required of all Sophomores. Text-book. Weekly or fortnightly themes.
- IV. *Argumentation.*—(*Second Half-Year.*)—Tu., Th., 10:45. (Two term hours.) Required of all Sophomores. Text-book. Weekly or fortnightly themes.
- V.—*Orations, Debates, Public Addresses.*—(*First Half-Year.*)
Mo., 10:45. (One term hour.) Required of all Juniors.
- VI. *Continuation of V.*—Required of all Juniors. Mo., 10:45.

LANGUAGE AND LITERATURE.

PROFESSOR SPANTON.

Required work. In addition to the required work in Rhetoric and Spoken English, students in all courses must take, after the Freshman year, at least three hours' work in the department of English Language and Literature.

Majors. The minimum for a major in English Literature is twenty-four term hours; for a major in English Literature and Public Speaking, the minimum is ten term hours of Public Speaking and fourteen term hours of English Literature.

Order of Work. Courses I. and II. are prerequisite to the more advanced courses. Hence students who desire to take all or most of the work offered in English must elect these courses in their Sophomore year, and in no case should they be postponed to the Senior year unless a student be sure that he desires no further work in this department.

All students taking their majors in Science or Mathematics are urgently recommended to elect Literature IV.

The following courses will be offered in 1910-1911:

I. *The History of English Literature.*—(*First Half-Year.*)—
Mo., We., Fr., 9:50. (Three term hours.)

The work covers in outline the entire field of English literature. Text-book: Long's *History of English Literature*. Especially valuable for supplementary reading is Green's *Shorter History of the English People*.

II. *Introduction to Literature.*—(*Second Half-Year.*)—Two sections: Mo., We., Fr., 9:50, especially for Sophomores, and others who have completed Course I; Tu., Th., Sat., 7:45, especially for Freshmen, and others who have not completed Course I. (Three term hours.)

Literature, its types and forms. Poetics. Elements of literary criticism. Much reading from standard authors to illustrate the principles studied. Text-book: Pancoast's *Standard English Poems*.

III. *The History of the English Language.*—(*First Half-Year.*)—Tu., Th., 9:50. (Two term hours.) Recitations and lectures. Text-book: Krapp's *Modern English*.

IV.—*Word Study.*—(*Second Half-Year.*)—Tu., Th., 9:50. (Two term hours.)

After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits. Students who have had but little Latin and Greek will find this course very helpful. The course may be elected by Freshmen in the Classical and Philosophical courses who do not elect Mathematics II. Text-book: Greenough and Kittredge's *Words and Their Ways*.

V. *Chaucer.*—(*First Half-Year.*)—Tu., Th., 7:45. (Two term hours.) A close study of the best of the *Canterbury Tales*, and a rapid reading of some other portions of Chaucer's work. Recitations, lectures, oral and written reports.

VII. *Shakespeare.*—(*First Half-Year.*)—Tu., Th., Sat., 8:40. (Three term hours.)

A close study of the language and the structure of the following plays: *King Lear*, *Othello*, *Macbeth* (or *Hamlet*), *Henry the Fourth, Part I*.

VIII. *Shakespeare and the English Drama.*—(Second Half-Year.)—Tu., Th., Sat., 8:40. (Three term hours.)

A study of the development of the English drama from its beginning to the closing of the theaters in 1642. Lectures on the pre-Shakespearean drama, with assigned readings in Manly's Specimens. Most of Shakespeare's plays are read; also selections from the works of Marlowe, Lyly, Jonson, Middleton, Beaumont and Fletcher, and, if time serve, from other Elizabethan dramatists. Recitations, lectures, oral and written reports. Elective only for students who have taken English VII.

IX. *Poetry of the Period of Romanticism.*—(First Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.)

Studies in Cowper, Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Recitations, lectures, oral and written reports.

X. *Poetry of the Victorian Period.*—(Second Half-Year.)—Mo., We., Fri., 8:40. (Three term hours.)

Studies in Tennyson, the Brownings, Arnold, Landor, Clough, Rossetti, Morris, Swinburne. Recitations, lectures, oral and written reports.

XI. *The English Bible as Literature.*—(First Half-Year.)—Mo., We., Fr., 7:45. (Three term hours.)

To the student of literature the Bible has a two-fold interest, entirely apart from its religious value: (1) It is itself noble literature; (2) It has influenced the literature of the English-speaking world more profoundly than has any other book. The object of this course is to help the student to see the beauty and the power of the Bible as literature—its narrative, its oratory, its exposition, its poetry and song. Recitations, lectures, oral and written reports.

XII. (a) *American Poetry.*—(Second Half-Year.)—Mo., We., Fr., 7:45. (Three term hours.)

A rapid survey of the poetry of the Colonial and Revolutionary Periods; then a study of the best work of Bryant, Poe, Emerson, Whittier, Longfellow, Lowell, Holmes, Whitman and Lanier. Recitations, lectures, written reports. Text-book: Page's *The Chief American Poets*.

ROMANCE LANGUAGES.

FRENCH.

PROFESSOR PLAISANCE.

Major: Eighteen hours of Romance Languages and six hours of German above Freshman requirements constitute the minimum for a major.

I. (a) (*First Half Year.*)—Mon., Wed., Fri., 7:45. Fraser and Squair's French Grammar. Reader, Daudet's *Trois Contes Choisis*. A course in grammar, pronunciation and sight reading.

II. (a) (*Second Half-Year.*)—Mon., Wed., Fri., 7:45. Grammar continued. Special drill on verbs and composition; Labiche and Martin's *Voyage de M. Perrichon*. Chateaubriand's *Atala*.

I. (b) (*First Half-Year.*)—Mon., Wed., Fri., 9:50. Chardenal's Complete French Course, Super's French Reader.

II. (b) (*Second Half-Year.*)—Mon., Wed., Fri., 9:50. Grammar continued. Mairet's *La Tache du Petit Pierre*. Erckmann Chatrian's *Le Juif Polonais*.

III. *Second Year Course. (First Half-Year.)*—Tu., Th., Sat., 7:45. (Three term hours.)

Fraser and Squair's Grammar, Part II. One play each of Corneille, Racine, Victor Hugo, and Molière.

IV. (*Second Half-Year.*)—Tu., Th., Sat., 7:45. (Three term hours.)

Francois French Prose Composition. Modern French stories and plays to be selected from the works of Balzac, Daudet, Dumas, Pailleron, Maupassant.

V. *Third Year French. (First Half-Year.)*—Tu., Th., Sat., 9:50. (Three term hours.)

Francois' Advanced French Prose Composition. Systematic reading of authors or by topics to be selected from the following: Molière, Victor Hugo, Modern Drama, Classic Tragedy, Lyric Poetry.

VI. (*Second Half-Year.*)—Tu., Th., Sat., 9:50. (Three term hours.) Course V. continued.

VII. (*First Half-Year.*)—Tues., Thurs., 8:40. (Two term hours.) Francois' Advanced French Prose Composition. Victor Hugo Les Misérables.

VIII. (*Second Half-Year.*)—Tues., Thurs., 8:40. Fortier's Histoire de la Littérature Française; Corneille's Cinna, Polyeucte.

SPANISH.

Two years of Latin, or one year of French, a prerequisite for this course.

I. (*First Half-Year.*)—Mo., We., Fr., 8:40. (Three term hours.)

Beginners' Course. Hill's and Ford's Spanish Grammar, Ramsey's Spanish Reader. Grammar, pronunciation and sight reading.

II. (*Second Half-Year.*)—Mo., We., Fr., 8:40. (Three term hours.)

Course I. continued with additional readings.

GERMAN LANGUAGE AND LITERATURE.

PROFESSOR KOLBE.

ASSISTANTS,

1909-1910, MISS MEANS.

1910-1911, MISS HAAS.

The object of this department is to enable the student to acquire rapidly a practical knowledge of German. Special attention is given to pronunciation and the training of the ear for the sounds of the German language. The German language is used in the class room as the medium of teaching. This

method, consistently pursued during a four years' course, not only guarantees to the faithful student an accurate and comprehensive knowledge, furnishing the key to the vast field of German literature, but it recognizes also the practical claims of the German language in a country where millions of German-speaking people live, where business relations and demands, in their various forms, call for an actual and practical use of this language, and where, therefore, this language, above all, should become, as far as possible, a living language in the mouth of the student. In thus combining theory with practical work it is thought that the greatest good will come to the student in the pursuit of the German language through the means indicated.

The following course is suggested as the proper order in which a major in German should be taken by those who enter unprepared in this language. For those who have studied modern languages in secondary schools, a personal conference with the instructor will be found necessary in planning major work.

Any student who so desires may take a major in modern languages by combining German and French so as to take at least 24 term hours after the completion of the required Freshman work. Care should, of course, be taken to plan for all required minor studies as early as possible in the course.

GERMAN MAJOR.

Freshman Year.

German I. and II. (as required) 8 hrs.

Sophomore Year.

German III. and IV. (elective) 6 hrs.

German V. and VI. (elective) 4 hrs.

(Students whose work in the first year has been graded below C are advised to defer course in German V. and VI. until the third year.)

Junior Year.

German VII. and VIII. (elective) 6 hrs.

(German V. and VI., if not taken in second year.)

German XI. and XII. (elective) 4 hrs.

Senior Year.

German IX. and X. (elective) 4 hrs.

German XIII. and XIV. (elective) 2 hrs.

COURSES OF STUDY.

I. (*First Half-Year.*)—Mo., Tu., We., Th., 9:50. (Four term hours.)

Joynes-Meissner's Grammar, Part I.; written grammar exercises from English into German. Stories and poems from Glück Auf. Simple conversation.

II. (*Second Half-Year.*)—Mo., Tu., We., Th., 9:50. (Four term hours.)

Review of grammar; rapid oral translation of English sentences into German; Storm's *Immensee*, Hillern's *Hoeher als die Kirche* or Gerstaecker's *Germelshausen*.

III. (a) (*First Half-Year.*)—Mo., We., Fr., 7:45. (Three term hours.)

This course is intended for those who have completed courses I. and II., or their equivalent. Students with one year of secondary school German will be admitted *on probation*. The time will be divided between prose composition and reading of easier prose or poetical works.

IV. (a) (*Second Half-Year.*)—Mo., We., Fr., 7:45. (Three term hours.)

Course IV. carries out in the second semester the work of course III. An easier classic, such as *Wilhelm Tell*, may be attempted.

III. (b) (*First Half-Year.*)—Mo., We., Fr., 10:45. (Three term hours.) A parallel course to III. a, with equivalent work.

IV. (b) (*Second Half-Year.*)—Mo., We., Fr., 10:45. (Three term hours.) A parallel course to IV. a, with equivalent work.

V. (*First Half-Year.*)—Tu., Th., 10:45. (Two term hours.)

The work of this course is intended primarily for those who have completed courses I. and II. (with a grade no lower than G), or two years of secondary school German. Students coming from secondary schools with one year of German are advised to devote their attention during the first year to courses III. and IV., taking up this work and the following course VI. during the next year. This course, together with VI., III., IV., XI. and XII. are required of all students taking a major in the German department, unless excused by special permission of instructor. The work will consist of lectures, dictated in German, on the history of German literature (extending in course VI. to the year 1300), and of a review of Joynes-Meissner's *Grammar*.

VI. (*Second Half-Year.*)—Tu., Th., 10:45. (Two term hours.)

The nature of this course is the same as that of course V. For conditions of entrance see course V. For the grammar review of course V. a study of German life and customs will be substituted.

VII. (*First Half-Year.*)—Mo., We., Fr., 8:40. (Three term hours.)

Entrance to this course presupposes the completion of courses I. to IV., inclusive, and, if possible, of V. and VI., although the latter may be taken profitably in conjunction with VII. and VIII.

The work will consist of readings from Goethe, Schiller, Lessing, or Heine.

VIII. (*Second Half-Year.*)—Mo., We., Fr., 8:40. (Three term hours.)

This course follows directly upon course VII., and the same plan of work will be carried out.

IX. (*First Half-Year.*)—Tu., Th., 7:45. (Two term hours.)

The requirement for entrance is the completion of course VIII., although students of some ability in German may be admitted from a lower course by special arrangement with the instructor. The work will be upon Goethe's Faust.

X. (*Second Half-Year.*)—Tu., Th., 7:45. (Two term hours.)

This course follows immediately upon course IX. The subject will be modern prose.

XI. (*First Half-Year.*)—Tu., Th., 8:40. (Two term hours.)

A study of German literature from its beginnings to the time of Lessing. Texts: Bernhardt's *Deutsche Litteraturgeschichte*, together with reference work in the library. Required for major.

XII. (*Second Half-Year.*)—Tu., Th., 8:40. (Two term hours.)

Further studies in literature from Lessing's time to the present. The work of course XII. will be carried on and illustrated by the reading of selected texts.

XIII. (First Half-Year.)—Fr., 9:35. (One term hour.)

This course, while fitted for the needs of postgraduate students, is open to undergraduates who have completed course VIII. and to a limited number of others at the discretion of the instructor, and upon personal application.

The work of course XIII. will consist of lectures, research, conferences and note-books and will be carried on in English. The following subjects will be discussed: theories of the origin of language; a brief survey of the field covered by Comparative Philology with a few working principles illustrated; an historical study of German grammar.

XIV. (Second Half-Year.)—Fr., 9:50. (One term hour.)

See conditions for Course XIII.

A study of middle High German and early New High German authors. Recitations, conferences and papers.

GREEK.

PROFESSOR ROCKWELL.

Major: The elective courses in Greek are III., IV., V., VI. Twenty-four hours elected above Freshman year constitute a major in Greek. The History of Greek Sculpture will count towards a major.

Major: Of the twenty-four hours necessary for a major in Greek and Latin, twelve hours at least must be of the Greek language above the Freshman year.

Courses I. and II. will count for college credit.

In the advanced courses the great masterpieces of prose and poetry are studied in their proper historical and literary setting, and the effort will be made during the three years' rotation of courses for the student to become more thoroughly acquainted with the lives and works of a small number of selected authors. As far as is admissible, some attention is given in connection with the regular work to Greek Private Life.

I. Goodwin's Greek Grammar and Xenophon's Anabasis—(First Half-Year.)—Mo., Tu., We., Th., 9:50. (Four term hours.)

II. Xenophon (Anabasis, 3 books.)—(Second Half-Year.)—Mo., Tu., We., Th., 9:50. (Four term hours.)

- III. *Homer (Iliad Selections.)—(First Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.)*
- IV. *Homer (Iliad Continued): (New Testament Greek.) (Second Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.)*
- V. *Plato (Apology and Crito); Homer (Odyssey Selections.)—(First Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.)*
- VI. *Thucydides (Book VI.); Aristophanes (Birds, with special reference to Greek Private Life.)—Mo., We., Fr., 8:40. (Three term hours.)*
- VII. *Demosthenes (De Corona.)—(Second Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.) Not given 1910-1911.*
- VIII. *Sophocles (Antigone); Herodotus (Books VI. and VII.)—(First Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.) Not given 1910-1911.*

HISTORY OF GREEK SCULPTURE.

PROFESSOR ROCKWELL.

- I. *(First Half-Year.)—Tu., Th., 8:40. (Two term hours.)*
 This course will count toward a major in either Latin or Greek. Not given 1910-1911.

This has been planned as a general course and will not require work in Greek or Latin. It will consist largely of lectures. There will be a short introduction setting forth the relation of Greek Art to the Art of Egypt, Assyria and Phoenicia, and this will be followed by a discussion of the various periods and schools of Greek Sculpture and the more important artists. The subject will be illustrated by photographs and lantern-slides. Tarbell's History of Greek Art will be made the basis of the course, and some collateral reading in histories of art will be required. The ability to read German, though not absolutely necessary, will be decidedly advantageous.

Note-books of the students will be examined by the instructor from time to time.

- II. (*Second Half-Year.*)—Tu., Th., 8:40. (Two term hours.) Continuation of Course I. Not given 1910-1911.
- III. *General course in Classical Archaeology.*—(*First Half-Year.*)—Tu., Th., 8:40. (Two term hours.)
- IV. (*Second Half-Year.*)—Tu., Th., 8:40. (Two term hours.)

HISTORY.

PROFESSOR OLIN.

Major: History may be combined for two majors. One, "History and Economics," 12 term hours each; the other, "Philosophy and History," 12 term hours each. American History taken as a Freshman requirement cannot count for a major.

- I. *American History.*—(*First Half-Year.*)—Tu., Th., Sat., 7:45. (Three term hours.)

A critical study of the political, social, and industrial aspects of the great Periods, Problems, and Events of United States History, together with an outline history of Mexico, Canada, Central America, South America, and the West Indies. Good course in U. S. History a prerequisite. This course is an elective instead of Mathematics for all Freshmen of the Classical or the Philosophical Course. (See page 45.)

- II. *History of Western Europe.*—(*Second Half-Year.*)—Tu., Th., Sat., 7:45. (Three term hours.) Text-book: James Harvey Robinson's *History of Western Europe.*

The story of Western civilization from the time of the Romans. The rise of the states of modern Europe. The development of the political, religious, social and industrial systems of the Middle Ages, and their outgrowths of today. The great movements that were common to the nations, with the special history of each state.

- III. *History of England to the Seventeenth Century.*—(*First Half-Year.*)—Mo., We., Fr., 9:50. (Three term hours.) Text-book: Terry. Green, Gardiner, Montgomery, Andrews, Cheyney, Macaulay, and others in the College library are used for reference.

As the history of England involves the interests of other countries, there must be additional subjects of study; any general history of England is helpful.

Lack of elementary English history and of historical reading is a serious want to the student. Such books as the following are recommended: Bulwer-Lytton's *Harold*, Kingsley's *Hereward and Westward Ho*; Shakespeare's English historical plays,—a part of the required work—Tennyson's *Harold, Becket and Queen Mary*; Scott's historical novels, Macaulay's and Thackeray's historical essays.

IV. *History of England to the Twentieth Century.*—(*Second Half-Year.*)—Mo., We., Fr., 9:50. (Three term hours.) A continuation of Course I. Text-books and references as above.

LATIN.

PROFESSOR ROCKWELL.

Four units in Latin are required of all students entering Freshman Latin.

The elective courses are III. to VI. IX. X. XIII. XIV.

Major: Twenty-four hours elected above Freshman year constitute a major in Latin.

The following arrangement of courses is suggested:

Sophomore year Latin III. and IV. (six hours), and one lecture course; Latin XIII. and XIV. (four hours.)

Junior year Latin, V. and VI., (six hours.)

Senior year Latin, VII. and VIII., (six hours.)

The remaining hours may be taken in a lecture course, the *History of Greek Sculpture*, or *Latin Prose Composition*.

Major: Twelve hours each of Greek and Latin above the Freshman requirements constitute a major in Greek and Latin.

I. *Cicero (De Senectute); Plautus (Mostellaria).*—(*First Half-Year.*)—Mo., We., Fr., 7:45. (Three term hours.) Required of Classical Freshmen.

During the Freshman year a careful study is made of grammatical forms, syntax and idiomatic expressions, and written translations constitute a prominent feature of the work.

- II. *Pliny (Selected Letters.)—(Second Half-Year.)—Mo., We., Fr., 7:45. (Three term hours.) Required of Classical Freshmen.*
- III. *Livy (Books XXI.-XXII.); Plautus Trinummus.—(First Half-Year.)—Mo., We., Fr., 10:45. (Three term hours.) Courses III. and IV. are open to students who have completed I. and II.*
- IV. *Terence (Andria); Horace (Odes and Epodes.)—(Second Half-Year.)—Mo., We., Fr., 10:45. (Three term hours.)*
- V. *Tacitus (Annals XI.-XVI.); Suetonius (Claudius and Nero.)—(First Half-Year.)—Tu., Th., Sat., 7:45. (Three term hours.) Open to students who have completed III. and IV.*
- VI. *Juvenal (Selected Satires); Martial (Selected Epigrams.) (Second Half-Year.)—Tu., Th., Sat., 7:45. (Three term hours.)*
- VII. *Roman Elegiac Poetry.—(First Half-Year.)—Mo., We., Fr., 10:45. (Three term hours.) Not given 1910-1911.*
- VIII. *Cicero. (Selected Letters.)—(Second Half-Year.)—Mo., We., Fr., 10:45. (Three term hours.) Not given 1910-1911.*
- IX. *Latin Prose Composition.—(First Half-Year.)—Fr., 9:50. (One term hour.)*
 During the first half-year a systematic study will be made of the Latin sentence and paragraph, but in the second half-year there will be the translation into Latin of connected passages of classic English.
- X. *Latin Prose Composition.—(Second Half-Year.)—Fr., 9:50. (One term hour.) Continuation of Course IX.*

XI. *History of Roman Literature.—(First Half-Year.)—*
Tu., Th., 10:45. (Two term hours.) Not given 1910-
1911.

First there will be a short survey of the laws in accordance with which the Latin language developed. Then the different forms and periods of Roman literature will be set forth by lectures. These will be supplemented by class readings from different authors.

XII. *History of Roman Literature.—(Second Half-Year.)—*
Tu., Th., 10:45. (Two term hours.) Continuation of
Course XI. Not given 1910-1911.

XIII. *Roman Private Life and Social Institutions.—(First*
*Half-Year.)—*Tu., Th., 10:45. (Two term hours.)

A course of lectures supplemented by some collateral reading of original and secondary authorities. Special subjects will be assigned for investigation.

XIV. *Roman Private Life and Social Institutions.—(Second*
*Half-Year.)—*Tu., Th., 10:45. (Two term hours.)
Continuation of Course XIII.

LOGIC.

PROFESSOR OLIN.

I. *Logic.—(First Half-Year.)—*Tu., Th., Sat., 9:50. (Three
term hours.) The text-book, Jevon's *Advanced Logic*.
Any other logic is good for reference, especially Mill and
Bain.

Logic is the study on the thought side of concepts, judgments, inferences; on the language side of terms, propositions, arguments; in other words, the study of correct processes of thought. It analyzes induction, traces its steps from observation, comparison, inference, proof, to the generalization of truths; it is the scientific method.

It passes not only from the particular to the general, but from the general to the particular, and points out in each case both the right way and the wrong.

It would be well for students to elect logic early, because inductive and deductive reasoning are fundamental to all other studies.

MATHEMATICS. PURE AND APPLIED.

PROFESSOR BIEFELD.

C. R. WEED, ASSISTANT.

C. R. OLIN, ASSISTANT.

Major in Pure and Applied Mathematics.

Analytic Geometry and Surveying, six term hours.

Analytic Mechanics, six term hours.

Differential and Integral Calculus, six term hours.

Advanced Calculus and Differential Equations, six term hours.

Total, twenty-four term hours.

The courses in this department have been planned to serve two purposes: First, to offer the study as a part of a liberal education, as a mental discipline to train the student in logical thinking and in the use of exact language; second, as a tool to be used in further college work, in the pursuit of the sciences at this or higher institutions offering graduate work, and to prepare for higher education along engineering lines.

To meet this last condition, the work has been arranged preparatory to the courses in Junior and Senior years of the best technical schools of the country. Two, three and four years can be spent with the utmost profit before entering upon the strictly professional courses of these institutions. The successful engineer of today needs besides his professional training the culture of a general college course. He must be able to handle men and business as well as design and handle machines.

The following courses are given each year:

1. *College Algebra.*—(*First Half-Year.*)—In two sections at 8:40. (Four term hours.) Mo., We., Fr., Sat. Required of all students in Scientific Course. Text: Hawke's *Advanced Algebra.*

Theory of Quadratics with graphical representations, Binomial Theorems, Progressions, Complex Numbers, Determinants, Partial Fractions, Logarithms, Theory of Equations.

II. Plane and Spherical Trigonometry.—(Second Half-Year.)

—In two sections, at 8:40. (Three term hours.) Mo., We., Fr. Required of all students in Scientific Course. Text: Bauer and Brooke's Plane and Spherical Trigonometry.

Goniometry, Trigonometric Equations, Solution of Plane and Spherical Triangles.

Note:—Either I. or II. must be taken by students in Philosophical or Classical Courses to constitute their Freshman Mathematics.

III. Plane Analytic Geometry.—(First Half-Year.) at 7:45.

—Mo., We., Fr. (Three term hours.) Elective for those who have completed Courses I. and II. Text: Ashton Analytic Geometry. Offered every year.

Straight line and the General Equation of the First Degree. Polar Coordinates, Transformation of Co-ordinates. Conic Sections and Equations of the Second Degree. Tangents and Normals, Loci, Parametric Equations. The General Equation of the Second Degree, Euclidean Transformations, Inversion. Poles and Polars.

IV. (a) Solid Analytic Geometry.—(Second Half-Year.)

—Mo., We., Fr., 7:45. (One term hour.) First six weeks. Lines, Planes and Surfaces in Space. Special Surfaces.

IV. (b) Surveying.—(Second Half-Year.)—Mo., We.,

Fr., 7:45. (Two term hours,) for twelve weeks, following Analytic Geometry. For the most part field work six hours a week. We. and Fr. afternoons. Elective for those who have taken Mathematics I., II. Text: Wentworth's Plane Surveying.

Theory of Instruments. Measurements with Chain and Compass, Tape and Transit. Levelling. Stadia Measurements. Making plots and maps with blueprints from field notes.

V. Calculus.—(First Half-Year.)—Tu., Th., Sat., 7:45.

(Three term hours.) Elective for those who have completed Courses I., II., and III., or who take III. parallel with it. Text: Osgood Differential and Integral Calculus. Offered every year.

Functions, Theory of Limits, Differentiation, Series, Expansion of Functions, Indeterminate Forms, Maxima and Minima of Functions of one or more Variables, Partial Derivatives, Direction of Curves, Curvatures, Tangents and Normals, Evolutes, Involutives, Order of Contact, Envelopes.

VI. Calculus continued.—(Second Half-Year.)—Tu., Th., Sat., 7:45. (Three term hours.) Elective for those who have completed V. Text: Osgood Differential and Integral Calculus. Offered every year.

Integration of Standard Forms, Constant of Integration, Integration of Rational Fractions, Integration of Irrational Fractions, Trigonometric Forms, Integration by Parts, Integration by Substitution, Summation and the Definite Integral. Application to Curves and Simple Volumes, Double and Triple Integrals, Application to Surfaces and Volumes of Revolution, Moments of Inertia, Center of Gravity of any Solid, Application to Pressure of Fluids, Force of Attraction, etc.

VII. Advanced Calculus and Differential Equations.—(First Half-Year.)—Mo., We., Fr., 10:45. (Three term hours.) Elective for those who have completed VI. Text: Cohen's Differential Equations and lectures on special topics with mimeograph notes. Offered in 1910-1911.

VIII. Advanced Calculus and Differential Equations, continued.—(Second Half-Year.)—Mo., We., Fr., 10:45. (Three term hours.) Continuation of Course VII. Offered in 1910-1911.

Subjects treated:

Theory of Complex Variables, Hyperbolic functions and their development, Theory of Definite Integrals, Integration of Infinite Series, Fourier's series, Theory of Multiple Integrals, Complanation of Surfaces, Differential Equation of First Order and Degree, Application to Analytic Geometry, introducing complex variables. Differential Equation of the First Order and higher Degrees. Singular Solutions, Total Differential Equations, Linear Differential Equations, Linear Differential Equations with Constant Coefficients, Linear Differential Equations of the Second Order, Systems of Simultaneous Equations, Integration in Series of Equations of higher orders, Hypergeometric Series, Partial Differential Equations of the First and Higher Orders, Applications to Physics.

IX. *Analytic Mechanics.*—(*First Half-Year.*)—Mo., We., Fr., 10:45. (Three term hours.) Elective for those who have completed Mathematics I., II., III., V. and VI., or who take III. and V. parallel with it. Text: L. M. Hoskins *Theoretical Mechanics*. Offered in 1911-1912.

Fundamental Notions, Numerical Representation of Quantities, Scalars and Vectors, Statics, Motion of a Particle, Motion of a System of Particles, and rigid Bodies, Theory of Energy, Energy of a System of Particles, Conservation of Energy, Rigid Systems, Principle of Virtual Work, Relative Motion.

X. *Analytic Mechanics.*—*continuation of Course IX.*—(*Second Half-Year.*)—Mo., We., Fr., 10:45. (Three term hours.) Offered in 1911-1912.

ASTRONOMY.

PROFESSOR BIEFELD.

Major in Physics and Astronomy: Physics, 16 term hours; Astronomy, 6 term hours; Analytics, (Math. III.) 4 term hours.

I. *Descriptive Astronomy.*—(*First Half-Year.*)—Tu., Th., Sat., 10:45. (Three term hours.) Elective for those who have completed Mathematics II. Text: Young's *Manual of Astronomy*.

Celestial Sphere, Astronomical Instruments, Elementary Celestial Mechanics, Solar System, Fixed Stars, Double Stars, Nebulae, Constellation. Study one evening a week, Demonstration at Equatorial, Meridian Circle and other Instruments of the Observatory.

II. *Practical Astronomy.*—(*Second Half-Year.*)—Tu., Th., Sat., 10:45 or six hours' practical work in Observatory. (Three term hours.) Elective for those who have completed Mathematics I., II., III., Astr. I. and Phys. I. Text: Campbell's *Practical Astronomy*.

Preliminary work with accessory instruments as: Micrometer, Level, Reading Microscope, etc. Theory of Astronomical Instruments, observations with Engineer's Transit, Sextant and Meridian Circle. Determination of Time, Latitude, Longitude, Right Ascension and Declination of Stars by Differential Method.

MECHANICAL DRAWING AND DESCRIPTIVE GEOMETRY.

PROFESSOR BIEFELD.

C. R. OLIN, INSTRUCTOR.

Each year the demand has been stronger that it be made possible for a student to obtain such work in his Literary Course, as to shorten his course in a Technical School by two years. Buchtel College intends to continue distinctly as a College of Liberal Arts and Letters, but it has seemed wise to yield to the demand to a certain extent. One year's work in Mechanical Drawing and Descriptive Geometry has been added. This work will be such as will be accepted at full value by any Technical School.

A student looking forward to a Technical course after finishing the Literary course should make it known to the Classification Committee and the professors in charge, that a proper selection and election of work to this end may be made.

I. Elementary Mechanical Drawing.—(First Half-Year.)—
Tu., We., Th., 1-4. (Four term hours.) Three hours' drafting or recitation each day. Texts: Anthony, Elements of Mechanical Drawing. Sherman, Lettering.

Drawing Outfit includes Set of Drafting Instruments, drawing board, T-square, triangles, curve ruler, triangular scale, etc., and costs about \$10 for a satisfactory outfit. Good work cannot be expected with an inferior set of tools.

The work includes—use of drawing instruments, elementary geometrical drawing, lettering, orthographic projections, conventional representations used in surveying, drawing of plats and maps, tracing, blue-printing, etc.

Courses I. and II. are elective in place of French for Scientific Freshmen.

*II. Descriptive Geometry.—(Second Half-Year.)—*Tu., We., Th., 1-4. (Four term hours.) Three hours drafting or recitation each day. Text: Church. Descriptive Geometry; Bartlett's Problems in Descriptive Geometry. Prerequisites: Solid Geometry and Drawing Course I.

The work includes—representation of points, lines, planes, and intersections in orthographic projection; curved lines, tangents, development and intersection of surfaces, and simple pattern making.

MENTAL AND MORAL PHILOSOPHY.

PRESIDENT CHURCH.

PROFESSOR OLIN, INSTRUCTOR.

Major: Philosophy may be combined for two majors, "Philosophy and Economics," and "Philosophy and History," twelve term hours required in each subject.

Psychology I.—(*First Half-Year.*)—Mo., We., Fr., 7:45.

(Three term hours.) Text-book: James' Psychology.

Psychology is an elective for one year in either a major or a minor group. A text-book affords the basis of study, and is supplemented by oral instruction which follows the lines of modern investigation. From time to time such topics as Habit, Memory, Imagination, Illusion, Hallucination, and Alternating Personality are assigned, and the student is referred to authorities in the library and expected to write papers which are read and discussed in the class, the purpose being to familiarize the student with the library method of study and investigation, and to stimulate him to think for himself. Original problems in observation are worked out by the students, reports discussed in class and note-books kept.

Psychology II.—(*Second Half-Year.*)—Mo., We., Fr., 7:45.

(Three term hours.) Continuation of Course I.

Ethics I.—(*First Half-Year.*)—Mo., We., Fr., 9:50. (Three term hours.) Text-book: Mackenzie.

Moral Philosophy is an elective for two half-years. The subject embraces theoretical and practical ethics and is studied with reference to the origin and development of ethical ideas as viewed in the light of modern philosophy. Text-books are used as guides, but the aim is to encourage individual research and original thought; to that end, topics are assigned at intervals during the course, and students are referred to a library of wide and well chosen reference books. Papers are written and discussed on the doctrine and influence of such men as Socrates, Plato, Kant, Berkeley, and others, and on the systems of thought advanced by the Stoics, Epicureans, Cynics, and Ascetics. The theoretical bearing of the contemporaneous problems of Education, Charities, Penology, Temperance, and Sociology is introduced and the fullest discussion invited.

Ethics II.—(*Second Half-Year.*)—Mo., We., Fr., 9:50.

(Three term hours.) Continuation of Course I. with Natural Theology. Text-books: Mackenzie and Valentine.

During the last thirteen weeks of the second half-year, the course in Ethics is supplemented by a course in Natural Theology. The object of this course is to lead the student carefully to observe the phenomena of Nature, to trace their causes to their creative source, and to read from them the power, wisdom and beneficence of God. A text-book is used as an outline, while the student is given problems for original investigation and application, and topics for library research.

NATURAL SCIENCE.

PROFESSOR BROOKOVER.

HAROLD A. HAINES, ASSISTANT.

A major in Natural Science shall consist of twenty-four term hours above Biology I. and II. of the Freshman year. Biology I. and II. are introductory to, and prerequisite for all the other courses of the Department. Students who take a major in Natural Science, should elect Zoology I. and II. in their Sophomore year, preferably with the History of Zoology.

The work of the Junior and Senior years is designed to meet the needs of two classes of students. Prospective medical students should take Histology, Embryology, and Physiology with any other courses needed to make the required number of hours. Those who expect to teach science or are taking the work as part of their general culture should elect Botany, Geology, Physiology and any of the other courses necessary to complete the necessary number of hours.

A major in Natural Science and Chemistry shall consist of twelve term hours in Chemistry above the Freshman year, and an equal amount of Natural Science in addition to Biology I. and II. It is necessary to have Zoology I. and II. for the proper understanding of Geology II.

The courses of the Junior and Senior years are given in alternate years as noted below:

1. *Biology I. (First Half-Year.)*—(Three term hours.) One recitation Tuesdays at 10:45. Four periods of laboratory work. Division I. Mondays, 1 to 2:40 and Fridays 9:50 to 11:40. Division II. Tuesdays and Thursdays, 1 to 2:40. For Freshmen and Sophomores. Text-book: *Animal Forms*, Jordan and Heath.

The laboratory work is a training in exact observation. Some representative types of the animal and vegetable kingdom will be carefully dissected and drawn. Types that are common in our own surroundings are taken as of most importance and interest. The relations of these types to man, and their interrelations to each other are brought out to as full an extent as time will permit by recitations, lectures and reports. The cell is studied as the unit of Biology and the use and care of the Compound Microscope taught.

II. Biology II.—(Second Half-Year.)—(Three term hours.)

Recitations and laboratory at the same hours as in the first half-year.

This is a continuation of the biological studies commenced in Biology I. The Botanical side of the work commences with microscopic forms of Algae and Fungi. Emphasis is placed on their method of living and reproduction. Bacteria are studied in the laboratory, and sanitary conditions and infection by germs are discussed in the lectures. The relationship of plants to animals is discussed. The relation that animals bear to the life of man and to other animals is pointed out. These things should be of general interest to all. The work ends with a comparison of spores and seeds, and a study of the tissues and reproductive processes in the higher plants.

III. Zoology I.—Invertebrate Zoology.—(First Half-Year.)

—Mo., We., Fr., 7:45. Laboratory, We., 1:00 to 4:00. (Four term hours.)

This is a course in Systematic Zoology. Freshman Biology prerequisite. A large number of types are examined, dissected, and drawn. Their relationship are brought out by lectures and a suitable text. The lectures are illustrated by charts and lantern-slides. The laboratory work is supplemented by a study of the College's collection of microscopic slides. Students are encouraged to make slides for themselves. The College furnishes the necessary reagents and a Minot Automatic Rotary Microtome.

IV. Zoology II.—Vertebrate Anatomy.—(Second Half-Year.)—Mo., We., Fr., 7:45. Laboratory, We.,

1:00 to 4:00. (Four term hours.)

This continues the work of Zoology I, by dealing with the Chordates. As in the preceding course, one-half of the time is devoted to the examination of slides, to dissections, and to drawings.

V. History of Zoology.—(First Half-Year.)—Tu., Th.,

7:45. (Two term hours.)

This course can be taken only by those who have had Zoology I. and II., or by those who are taking Zoology. It will be a course dealing with the evolution of the Evolutionary idea ending with present day Zoological problems. Given only when three or more students elect it.

The following courses will be given in 1911-12 and in alternate years thereafter.

VI. Embryology.—(Second Half-Year.)—(Two or three term hours, according to the amount of laboratory work.)
One recitation at 7:45 on Tu., or Th. Only for students who have had Zoology or are taking it at the time.

A study of maturation, fertilization and development,—mainly the development of Vertebrates. Two or four hours of laboratory work in microscopical preparation and drawing.

*VII. Physiology I.—(First Half-Year.)—*Recitations Tu., Th., 8:40. Laboratory, 1:00 to 4:00, Friday (Four term hours.) Biology I. and II. are prerequisite, and one year of College Chemistry in addition to Elementary Physics. It is preferable to have had Zoology I. and II. It is intended for Juniors and Seniors.

The course deals with the physiology of muscles, of respiration and circulation and digestion. Kymographs and other necessary apparatus for laboratory work are furnished.

*VIII. Physiology II.—(Second Half-Year.)—*Recitations Tu., Th., 8:40. Laboratory, Friday p. m., 1:00 to 4:00. (Four term hours.) Same prerequisites as for Physiology I.

The course continues the work of the first half-year by an experimental and text-book course in the anatomy and physiology of the nervous system and sense organs.

The following courses are to be given in 1910-11, and in alternate years thereafter:

*IX. Botany I. Systematic Botany.—(First Half-Year.)—*Recitations, Tu., Th., 8:40. Laboratory, 1:00 to 4:00, Friday. (Four term hours.)

The laboratory work includes as many types of Thallophytes, Bryophytes and Pteridophytes as the time will permit. Their relationship are brought out by recitations and lectures. This course should precede Geology II.

X. *Botany II.—Systematic and Physiological Botany.—(Second Half-Year.)*—Recitations, Tu., Th., 8:40. Laboratory 1:00 to 4:00, Friday. (Four term hours.)

The work of the previous half-year is continued to include the Spermatophytes. Cell and tissue structures are studied, and experiments in plant physiology are conducted. The student is encouraged to prepare and stain permanent microscopical preparations for his own collection.

XI. *Geology I. Structural and Dynamical Geology and Mineralogy.—(First Half-Year.)*—(Three, four or five term hours, according to whether laboratory work in blow-pipe analysis is taken.) Recitations, Mo., We., Fr., 8:40. Text-book: College Geology, Chamberlin and Salisbury.

Laboratory work to be arranged. Cannot be taken before the Junior year, and one year of College Chemistry and at least an elementary course in Physics are prerequisites. Field work to cover the important points of interest near Akron, is a part of the course.

XII. *Geology II. Historical Geology.—(Second Half-Year.)*—Recitations Mo., We., Fr., 8:40. (Three term hours.) Four term hours may be offered by those who take a major in Geology and Chemistry by doing laboratory work in Paleontology. Text-book: Chamberlin and Salisbury. Open only to those who have completed Geology I. and have had a course in Systematic Zoology. It is much better to have had a course in Systematic Botany as well.

In this course the work of the preceding course is continued by a study of the development of the American continent, and of the life forms that dominated in the past. Reference to the U. S. Geological Survey reports and to many papers and monographs is encouraged.

XIII & XIV. *Histology.*—A course in the preparation and study of animal tissues and cell structure will be offered for those expecting to go forward to medical school. Two recitations each week for a year and four periods of laboratory work are arranged on consultation with the instructor.

COURSES IN PHYSICS.

PROFESSOR BIEFELD.

The following courses in Physics are offered for both Classical and Scientific students running over two years as a four hour study, three hours of recitation and one laboratory period per week. This course will be begun every year, thus accommodating students who wish to spend only two years at college, continuing their studies at some engineering school.

Prerequisites for the course are: A year of elementary physics, a year of chemistry and at least the trigonometry of the Freshman year. Text: Duff's College Physics.

Major in Physics and Astronomy.

Physics, 16 term hours.

Astronomy, 6 term hours.

Analytics (Math. III.) 4 term hours.

Total, twenty-six term hours.

Major in Physics and Chemistry.

Physics III. and IV., 8 term hours.

Chemistry, 18 term hours.

Total, twenty-six term hours.

I. *Mechanics and Properties of Bodies.*—(First Half-Year.)
—Three recitations, Mo., We., Fr., 9:50 and two laboratory hours. (Four term hours.)

II. *Heat, Wave Motion, Sound.*—(Second Half-Year.)—
Three recitations, Mo., We., Fr., 9:50 and two laboratory hours. (Four term hours.)

I. and II. prerequisites for III. and IV.

III. *Light, Photography.*—(First Half-Year.)—Three recitations, Tu., Th., Sat., 9:50 and two laboratory hours. (Four term hours.)

- IV. *Electricity and Magnetism.*—(Second Half-Year.)—
Three recitations, Tu., Th., Sat., 9:50 and two laboratory hours. (Four term hours.)
I. is required of students before taking up practical Astronomy (Astr. II.)

PUBLIC SPEAKING.

PROFESSOR MERRILL.

Major in Public Speaking and English Literature: The minimum is ten term hours of Public Speaking and fourteen term hours of English Literature.

- I. *Elementary Course.*—(First Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.) Breath Control. Tone Placing, Tone Building, Enunciation, Emphasis, Inflection, Phrasing, Analysis, Gesture, Vocal and Physical Expression, Recitation, Declamation.
- II. (Second Half-Year.)—Mo., We., Fr., 8:40. (Three term hours.) Declamation, Oration, Development of Imagination and Sympathetic Insight into Literature.
- III. *Advanced Course.*—(First Half-Year.)—Tu., Th., 8:40. (Two term hours.) Original Oration and Debate.
- IV. (Second Half-Year.)—Tu., Th., 8:40. (Two term hours.) Extempore Address. Literary, Dramatic and Artistic Interpretation. Character Study. Browning's Poems, Shakespeare's Plays.

A two years' course is offered in the department of Public Speaking. Progressive educators realize that the Spoken Word is an essential part of education. It is a recognized psychological fact that no one *knows* that which he is unable to present clearly to the consciousness of another. A blurred, indistinct utterance is a poor introduction into the business, social and educational world, while a cultivated, distinct utterance wins respect and attention. The men and women, who can speak well have an advantage over those who cannot, even though the latter may possess superior ability in other

lines. Educated men and women especially should be able to speak in a clear and forceful manner, free from mannerisms and localisms. Instruction will be furnished those students who enter the Oratorical and Prize Speaking contests.

DEPARTMENT OF PHYSICAL TRAINING.

MR. WEED.

The regular gymnasium drill for young men will begin about the middle of November and will close the last of March. This work is required of all first year students of the College and all Academy students except Seniors, and may be elected by others.

The drill consists of light calisthenics, dumb-bell sets and club-swinging by the entire class, and the work is directed to develop good form and to give complete control of the muscles of the body by light exercises. It aims to secure lightness, agility and grace rather than strength. Those students who are far enough advanced will be formed into special classes for work on the bars, fancy club-swinging and track-work.

The gymnasium has been equipped with a very heavy running mat and a vaulting block, so that sprinting, hurdling and vaulting can be practiced during the winter. Near the close of March, a Men's Gymnastic Exhibition will be held and many of the events will be preparatory for the Track Meet in the spring. The Exhibition counts as the examination in this course. Work on any of the other teams does not excuse attendance from the regular drill.

The gymnasium will be open for visitors only on Visiting Days and on other occasions only by special permission of the President or the Instructor in this department.

A limited number of resident students may be admitted to the drill by application to the Committee of the Faculty on Athletics and the payment of the incidental fee of \$4.25 for the entire period of four months.

Lectures will be given upon the physiology of exercise, diet, etc. An examination upon them will be given at the end of the year.

The Athletic Association is honored by the gift of the Medal presented by Mr. Frank Talbot Fisher, of New York, and also by his very generous donation of prizes for the Track Meet. They consist of two cups of the value of \$50 each and a Medal and are given under the following conditions:

The Individual Cup is to be awarded to the Athlete making the greatest number of points in the Track Meet, and must be won by him three years in succession in order to become his permanent property.

The Class Cup is the permanent property of the Athletic Association and is to be competed for by classes each year. An honorary position upon the cup is awarded the name of the class scoring the greatest number of points in each annual Track Meet.

The Medal is to be given to the Athlete scoring the greatest number of points, and at once becomes his personal possession. One such Medal is to be offered for each annual Track Meet.

The Individual Cup and the Medal are open to all academic students of the College and Academy who are bona fide students (not counting courses in music and art). The Class Cup is open to the four College classes.

The annual Track Meet to compete for these prizes will be held early in June of each year.

PHYSICAL INSTRUCTION FOR YOUNG WOMEN.

DR. WEAVER.

Recognizing the need of some specific instruction to young women in addition to physical training and exercise, a course of lectures is given to all first-year young women, covering the field of hygiene, exercise, diatetics, and remedies of temporary relief. On certain afternoons of the week, the exclusive use of the gymnasium is reserved for young women. Athletic sports, in basket ball and lawn tennis, are encouraged.

Following these five years of musical study she has continuously striven to perfect her acceptance of their methods and feels prepared to give her pupils a thorough training in the branches mentioned above.

TERMS.

Piano and Organ—per term of 20 lessons, one-half hour each.....\$20.00
Theory—private lessons, per term of 20 lessons 20.00
In classes of six or more, 2 hours a week, per term of 20 lessons..... 10.00
All bills for music tuition and organ practice are payable monthly at the Office in Buchtel Hall.

SCHOOL OF ART.

MAY FAIRCHILD SANFORD, INSTRUCTOR.

The Buchtel College School of Art offers advantages superior to most colleges and equal to the best art schools in the country, in both its primary and higher branches.

Two principal ideas prevail in the Art School. All practical knowledge of Art is based upon drawing. All drawing is from nature.

The students follow a progressive course, passing from step to step as they show proficiency. Students are not kept back for a class, each one being advanced as fast as his ability or effort will allow. Quality of the work done, not a given number of works or a fixed length of time, determines the advancement.

The course embraces work in charcoal, crayon, pen and ink, pencil, pastel, water color and oil. Pupils work from still life, cast and life.

Students may enter the school at any time by presenting themselves and registering. It is to their advantage, however, to do so as near the beginning of the year as possible. Pupils may work all day, half a day, or by the hour. A portrait class will be formed, and drawings from the living model will be one of the advantages offered advanced pupils.

Those desiring to prepare themselves for teaching will receive special attention.

A class for children will be held Saturdays from 8:30 to 11:30.

The studios are open all day five days and Saturdays in the forenoon.

Exhibitions of student's work are held during the year, besides special exhibitions of the work of resident and foreign artists.

TUITION.

Each half-year, (20 weeks), all day	\$50.00
Each half-year, half day, five times a week	29.00
Each half-year, half day, three times a week	22.00
One month, all day	12.00
One month, half day	8.00
Children's class, twelve weeks	9.00
All other arrangements, per hour50

Visitors are always welcome, and the public is invited to all receptions and exhibitions.

All communications should be addressed, May F. Sanford, Buchtel College, Akron, Ohio.

REGISTER OF STUDENTS OF BUCHEL COLLEGE.

For 1909-1910.

POST-GRADUATE.

Cottie P. Shuman, Ph. B., Chemistry..... Akron

SENIOR CLASS.

*Belden, Russell S Akron
 Botzum, Lida P Akron
 Cowan, Anna C Hudson
 Ford, Martha Eleanor..... S Milledgeville
 Gulick, Robert Aaron..... S Akron
 Hanan, Joseph Bradford..... P Wadsworth
 Harter, Helen C Akron
 Means, Marjorie P Akron
 Pfaff, Helen S Whipple
 Proehl, Bessie P Akron
 Read, Verne R..... S Akron
 Risch, Walter H..... S Akron
 Rohan, Howard S Plainville
 Swanson, Harriet E..... P Grand Valley, Pa.
 Theiss, Fred C..... S Akron
 Tomlinson, Agnes Martha..... S Perry, N. Y.
 Wright, Harry E. G..... S Rittman

Senior—17

JUNIOR CLASS.

*Arbogast, Harry S Akron
 *Babb, Lois P Akron
 Buel, Walker S..... S Akron
 Cruickshank, Maggie P Akron
 Dodge, Harriet D..... P South Berwick, Me.
 Fouch, Glen S Sterling
 Grafton, Elvah H. S Barberton
 Haas, Elma P Akron
 *Hardgrove, Arden Ellwood..... P Akron
 Hart, Hazel Bessey P Girard, Pa.
 Herberich, Alfred P Akron
 McMillan, Frank O..... S Akron
 Minor, Hazel P Akron
 Myers, Albert S Akron
 Olin, Leona G..... P Kent
 Olin, Robert R..... S Akron
 Rothenhoefer, Bessie P Chicago Junction
 Schmidt, Eleanor P Canton
 *Schultz, Orlo B..... S Ravenna
 Seymour, W. Ruth P Akron
 Townsend, Helen Louise..... P Akron
 Tremelin, Myrl D..... P Cuyahoga Falls
 Wilcox, Ralph J..... S Akron
 Williams, Julia P Barberton

Junior—24

SOPHOMORE CLASS.

*Booth, Edwin W.....	S.....	Akron
Buckman, Helen L.....	P.....	Akron
*Conner, Mary V.....	P.....	Akron
Converse, E. Mary.....	P.....	Mantua Sta.
Cruikshank, James A.....	S.....	Akron
Davison, Park C.....	S.....	Akron
*Eskesen, Lillian.....	P.....	Akron
Fehr, Inez.....	P.....	Warrensville
France, Marjorie.....	C.....	Kent
Geer, John H.....	S.....	Akron
Gibbons, Leo.....	S.....	Akron
Ginther, Ralph.....	P.....	Akron
*Haines, Harold.....	S.....	Leroy
*Hanson, Frank W.....	S.....	Akron
Hitchcock, Fred A.....	P.....	Akron
*Manthey, Fred.....	S.....	Akron
Moore, Floyd B.....	S.....	Leroy
*Otis, Kathrine L.....	P.....	Akron
Pfeiffer, Raymond.....	S.....	Akron
Pittman, Naomi B.....	P.....	Caledonia
Read, Fred K.....	P.....	Akron
Rotherhoefer, Bertha.....	P.....	Chicago Junction
Sladden, Lucile.....	P.....	Cleveland
Sullivan, Mae A.....	P.....	Hudson
Walker, Grover.....	C.....	Ravenna
*Waltz, Raymond M.....	S.....	Akron
Wirth, Franklin J.....	C.....	Kenmore
*Wolfe, Frances.....	P.....	Akron
*Wuchter, H. Charles.....	S.....	Akron

Sophomore—29

FRESHMAN CLASS.

Alderfer, Walter.....	S.....	Sharon Center
Alton, Myrtle.....	S.....	Watertown, Canada
Bastian, Hattie.....	C.....	Cuyahoga Falls
Brainard, Lucius.....	S.....	Leroy
Carpenter, Adele Laurine.....	P.....	Akron
Church, Evelyn.....	C.....	Akron
Coil, Harold S.....	S.....	Marietta
Davies, Ethel.....	P.....	Barberton
Dunham, Heber.....	S.....	Akron
Edson, Goldie.....	P.....	Akron
Emmitt, James.....	P.....	Tallmadge
Esgate, Vere.....	P.....	Akron
Feldhaus, Alfred.....	S.....	Akron
Fiebeger, Ruth Elevena.....	P.....	Akron
Fleming, William L.....	S.....	Barberton
Gary, Gladys.....	P.....	Akron
Gilbert, Walter.....	S.....	Atwater
Grimm, John.....	S.....	Akron
Hackett, Helen Moore.....	P.....	Akron
Harrington, Kent.....	P.....	Akron
Hollinger, Howard.....	P.....	Akron

Inskeep, Harry	S	Cuyahoga Falls
Jackson, Leo	S	Akron
Keys, Chester	S	Atwater
Lee, Ruth Kinsey	P	Akron
Minor, Seth	S	Akron
Morris, Max	P	Billaya Tzerkor, Russia
Mourn, James	S	Akron
Neese, Warren Rosse	S	Urbana
Olin, S. Estella	P	Akron
Parker, Helen	C	Akron
Pence, Lillian	P	Urbana
Pomeroy, Ray	S	Barberton
Priest, Ruth	P	Akron
Rinehart, May	P	Akron
Risch, Pauline	P	Akron
Russell, H. Earle	P	Battle Creek, Mich.
Schlingman, Myrtle	S	Akron
Seward, Martha	P	Akron
Simmons, Harriet	P	Leroy
Simmons, Lillian	P	Leroy
Simmons, Louise	P	Leroy
Slaybaugh, D. Harrison	S	Akron
Smith, Dolbeer	S	Perry, N. Y.
Smith, Vance	P	Plain City
Stauffer, Velma	P	Medina
Ulrich, Joseph	S	Akron
Wanamaker, Laurine	P	Akron
Way, Mildred	P	Akron
Zimmerman, Guy	S	Akron

Freshman—50

SPECIAL STUDENTS.

Brown, Mary Rohan	New Vienna
Burnett, Mildred	Akron
Cassidy, Elizabeth	Akron
Curtice, Nelia	Akron
Fehr, Celia	Warrensville
Holton, Hamilton	Akron
Libis, Ethel	Akron
Mankin, Clarence	Wadsworth
Miller, Eva	Akron
Slabaugh, Edwin	Akron
Pardee, Mrs. Helen	Akron

Special Students—11

REGISTER OF STUDENTS OF BUCHEL ACADEMY.

1909-1910.

FOURTH YEAR.

Campbell, Florence Gertrude Akron
 Force, W. Wilbert Cuyahoga Falls
 Hall, H. Lloyd Akron
 Hoch, Ellery T. Barberton
 Johnston, Joseph Jack Akron
 Miller, Ruth A. Barberton
 Roach, Alberta Akron
 Taylor, Raymond S. East Akron
 Waters, Mary Hyde Akron
 Wild, Harold C. Cuyahoga Falls
 Fourth Year—10

THIRD YEAR.

Hardy, Margery Cuyahoga Falls
 Siler, Cassius Clinton
 Sullivan, Julia Hudson
 Thornton, Russell South Akron
 Treap, Grace Peninsula
 Wise, Myer Akron
 Third Year—6

SECOND YEAR.

Cole, Winifred Akron
 Gilcrest, Lois South Akron
 Hale, Lawrence Cuyahoga Falls
 Hays, J. M. Akron
 Heer, Helen Akron
 Hoover, Albert Akron
 Jenkins, Scott Akron
 Klein, Mabel Cuyahoga Falls
 Konrad, Charles Akron
 Kraus, Dwight Akron
 Leavitt, Thelma Akron
 Marson, Marjorie Akron
 Miller, Guy Barberton
 Musser, Philip Akron
 Tobin, Dorothy Akron
 Whigam, Echo Barberton
 Woodbridge, Blythe Barberton
 Woodbridge, Dwight Barberton
 Yerrick, Ethel Lake
 Second Year—19

FIRST YEAR.

Anderson, Mildred Akron
 Anger, Clarence Akron
 Appleton, Lawrence Cuyahoga Falls
 Armitage, Marian Akron

Azar, Isaiah	East Akron
Boyd, Marie	Akron
Briggs, Carl	Cleveland
Brinkman, Harley	Akron
Church, John A.	Akron
Cole, Nellie	Akron
Cook, Celia	Akron
Costigan, Charles	Akron
Currie, Bessie	Akron
Currie, Jessie	Akron
Deakin, Myrtle	Akron
Dunham, Paul	Akron
Dunn, Elvira	Akron
Folger, Mary Joy	Akron
Frank, Paul	Akron
Garl, Ruth	Akron
Hammond, Estella	Akron
Hammond, Grace	Akron
Hart, Willard	East Akron
Heintz, Earl	East Akron
Hilton, Helen	Akron
Jacobs, Harriet	Akron
McTammany, Ruth	Akron
Mell, Mary	Akron
Mitchell, Fred	East Akron
Olin, Esther	Akron
Rawson, Earl	Akron
Renner, Lester	Akron
Roberts, Gladys	Akron
Rock, Hazel	Akron
Ryan, Karl	Cuyahoga Falls
Sanford, Marv	Akron
Schumacher, Janet	Akron
Stanley, Richard	Cuyahoga Falls
Thomas, Harold	Cuyahoga Falls
Thornton, Dwight	South Akron
Tobin, Honora	Akron
Viall, Hannah	Akron
Willson, Donald	Akron
Winum, Charles	Akron

First Year—44

SPECIAL STUDENTS.

Bethel, Arthur	Cuyahoga Falls
Blessman, Freda	Akron
Boone, William	Montpelier
Burnham, Ralph	Urbana
Chisnell, Carl	Akron
Crane, Verda	Mantua
Curtiss, Edward	Freedom Station
Dale, Rena	Copley
Deakin, Ruth	Akron
Dutt, Robert	Akron
Graham, Mary	Akron
Horn, Arthur	Cuyahoga Falls

Hull, Florence	Akron
Hunter, James	Tidioute, Pa.
Jones, W. Hermon	New Lebanon, Ind.
Kraus, Charles	Akron
Limbert, Clinton	Tallmadge
McAllister, James	Akron
Mills, Ralph	Hudson
Paul, Katherine	Westerville
Pence, Ruby	Akron
Rabe, Mary	Akron
Rombach, Lauretta	Buffalo, N. Y.
Shipman, Carroll	North Girard, Pa.
Stewart, Dale	Akron
Vittel, Peter	Medina
Walton, J. Russell	Cuyahoga Falls
Weaver, Harold	Akron
Weber, Lyman	Hudson
Wells, Harold	Akron
Whigam, James	Barberton
Yoder, Ray	Wadsworth

Special Students—32

COLLEGE STUDENTS.

Alderfer, Walter	Sharon Center
Alton, Myrtle	Watertown, Canada
Feldhaus, Alfred	Akron
Keys, Chester	Atwater
Morris, Max	Billaya Tzerkor, Russia
Mourn, James	Akron
Olin, Stella	Akron
Pomeroy, Ray	Barberton
Smith, Dolbeer	Perry, N. Y.

College Students—9

EVENING CLASS IN MECHANICAL DRAWING.

Collins, J. E.
Kline, L. F.
Lewis, I.
Manelik, F. L.
Morrow, H. B.
Nelson, J. F.
Parker, H. I.
Richmond, F. C.
Surbey, A. B.
Syme, J. A.

Total—10

ART STUDENTS.

Academy Drawing Class—Preparatory.

Appleton, Lawrence
Armitage, Marion
Anderson, Mildred
Boyd, Marie
Brinkman, Harley

Dunn, Vira
 Carl, Ruth
 Graham, Mary
 Hammond, Estella
 Mell, Mary H.
 Mitchell, Fred
 Olin, Esther
 Thornton, Dwight
 Tobin, Honora
 Winum, Charles J.

Total—15

Private.

Cook, Celia
 Farson, Anna E.
 Frank, Paul
 Cygi, Marie
 Hopkins, Gertrude
 Hammond, Estella
 Henry, Edna
 Marks, Ruth Helen
 Morris, Dorothy
 Robinson, Pearl
 Rosenfeld, Maurice
 Viall, Hannah
 Warner, Delia
 Welling, Anna
 Work, Bertram, Jr.
 Zembrodt, Katherine

Total—16

MUSIC STUDENTS.

Piano.

Armitage, Marion	Akron
Armstrong, Dorothy	Akron
Bates, Mrs. G. D.	Akron
Blackburn, May	Cuyahoga Falls
Cassidy, Elizabeth	Akron
Currie, May	Akron
Fehr, Celia	Warrensville
Kehoe, Fay	Barberton
Loomis, Harriet	Akron
Means, Esther	Akron
Miller, Eva	Akron
Rock, Hazel	Akron
Schaefer, Victor	Akron
Wagner, Anna	Akron
Wagner, Jean	Akron
Wagoner, Doris	Akron
Wuchter, Ruth	Akron
Whyte, Willa	Akron

Organ.

Pardee, Edith	Akron
Sladden, Lucile	Cleveland

<i>Piano, Organ and Harmony.</i>	
Ailes, Ruth M.	Anna
Currie, Elizabeth	Akron
<i>Piano and Harmony.</i>	
Brown, Mary	New Vienna
<i>Organ and Harmony.</i>	
Tilock, Bertha	Cuyahoga Falls
<i>Piano and Organ.</i>	
Hottenstein, Claribel	Akron
<i>Harmony.</i>	
Hull, Florence	Akron
	Total—26

SUMMARY.

1909-1910.

COLLEGE STUDENTS.

Post-graduate	1
Senior Class	17
Junior Class	24
Sophomore Class	29
Freshman Class	50
Special Students	11
Total College	132
Classical Students	8
Philosophical Students	60
Scientific Students	52
Special Students	11
Men	65
Women	67

ACADEMY.

Fourth Year	10
Third Year	6
Second Year	19
First Year	44
Special Students	32
College Students in Academy Classes	9
Total Academy	120
Men (exclusive of College Students)	61
Women (exclusive of College Students)	50

SCHOOL OF MUSIC.

Women	26
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SCHOOL OF ART.

Academy Students in Drawing	15
Private Students	16
Total	31
Men	8
Women	23

EVENING CLASS 10

Number counted more than once	32
Total in all Departments.....	297

DEGREES CONFERRED.

CLASS OF 1909.

Bachelor of Arts.

BEATRICE DACOTAH RENTSCHLER - - - - -	Akron
MARIE SIMMONS - - - - -	LeRoy

Bachelor of Philosophy.

HAZEL LANE COLE - - - - -	Akron
BLANCHE CLARE GREER - - - - -	Akron
NELLIE REBECCA JAMES - - - - -	Cuyahoga Falls

Bachelor of Science.

SLEETER BULL - - - - -	Sidney
FORD LINCOLN CARPENTER - - - - -	Akron
CLAUDE ELTON EWART - - - - -	East Akron
HONOR CLYDE FOUCH - - - - -	Sterling
IRL ALLEN FREDERICK - - - - -	Copley
ROBERT IREDELL - - - - -	Akron
THERON SKEELS JACKSON - - - - -	Cleveland
CHARLES JEAN JAHANT - - - - -	Akron
CYRINTHIA JONES - - - - -	New Lebanon, Ind.
CECIL CLAIR McNEIL - - - - -	Akron
HERMANN PFAFF - - - - -	Akron
REED WHITE RICHARDSON - - - - -	Westville
BURNE OLIN SIPPY - - - - -	Akron

Theses being elective, the titles are not announced.

HONORARY DEGREES.

Doctor of Divinity.

REV. EDWARD G. MASON - - - - -	Akron, O.
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BUCHTEL COLLEGE ALUMNI ASSOCIATION.

Organized July, 1874.

Incorporated October 19, 1899

OFFICERS FOR 1909-1910.

President, PARKE R. KOLBE, '01.....Akron
 Vice-Presidents, E. F. VORIS, '75.....Akron
 JUDGE D. A. DOYLE, '78.....Akron
 MRS. LILLIAN HUNTER, '85.....Tidioute, Pa.
 GEO. B. EMERSON, '88.....Zanesville
 C. H. SHIPMAN, '93.....Akron
 J. CLARENCE FRANK, '99.....Barberton
 DONALD HOTCHKISS, '03.....Akron
 Secretary, HALLIE TILLSON, '07.....Akron
 Treasurer, DR. E. B. FOLTZ, '96.....Akron
 Acting Treasurer, C. C. CONNER, '06.....Akron

ALUMNI BOARD OF TRUSTEES.

Officers.

PARKE R. KOLBE, '01.....President ex-officio
 HALLIE TILLSON, '07.....Secretary ex-officio
 E. B. FOLTZ, '96.....Treasurer ex-officio

Term Expiring June, 1910.

MRS. SUSIE C. COLE, '73.....Akron
 MRS. JENNIE ROOD, '91.....Akron
 MISS EMILY HARPHAM, '96.....Akron
 J. ASA PALMER, '89.....Akron

Term Expiring June, 1911.

CHAS. R. OLIN, '85.....Akron
 C. C. CONNER, '06.....Akron
 FRANK GOEHRING, '08.....Akron
 IDA ROCKWELL, '07.....Akron

Term Expiring June, 1912.

A. I. SPANTON, '99.....Akron
 GLADYS PARSHALL, '03.....Akron
 JOHN THOMAS, '04.....Akron
 ELIZABETH ROACH, '08.....Akron

Annual meeting of the Association, June 15, 1910, 3:00 P. M.

Stated meetings of the Board of Trustees, June 16, 1910; November 17, 1910; February 16, 1911; May 18, 1911.

PRIZES.

THE ALUMNI PRIZES.

Awarded for excellence in scholarship.

1908-1909.

In Senior Preparatory Class to May Rinehart.
In Freshman Class to Alfred Herberich.
In Sophomore Class to Eleanor Schmidt.
In Junior Class to Agnes Tomlinson.

THE OLIVER C. ASHTON PRIZES.

Awarded for excellence in declamation.

1908-1909.

In the Junior Class: First prize to Russell Belden, and second prize to Helen Harter.

1909-1910.

In Sophomore Class: First prize to Ralph Ginther, and second prize to Fred Hitchcock.

Junior contest held after date of publication.

In Senior Class: First prize to Helen Harter, second prize to Anna Cowan.

SECONDARY SCHOOL SCHOLARSHIPS.

Awarded for excellence in scholarship.

June, 1909.

Buchtel Academy to Evelyn Church.
Akron High School to Myrtle Schlingman.
Atwater High School to Walter Gilbert.
Cuyahoga Falls High School to Hattie Bastian.
Leroy High School to Lillian Simmons.
Medina High School to Peter Vittell.
Tallmadge High School to Jas. F. Emmett.

January, 1910.

Akron High School to Nelia Curtice.

DONATIONS.

From March 14, 1909, to April 4, 1910, the College has received the following contributions:

CHEMICAL LABORATORY EQUIPMENT.

Mrs. May Acomb Knight and Mrs. Lillian Acomb Hunter have furnished the equipment for the qualitative laboratory, at a cost of \$1,202.03, as a memorial to their father, Dr. J. L. Acomb, late of Tidioute, Pa.

Mrs. Eva D. Greenwood, of Marlboro, N. H., furnished the private office and equipped the private laboratory at a cost of \$700.00.

Dr. C. M. Knight contributed \$50.00 towards placing plate glass upon the shelving for re-agent bottles throughout the laboratory.

The International Harvester Co. gave a rubber grinding and mixing machine, and Alexander Adamson gave a calender machine for the rubber laboratory equipment.

MISCELLANEOUS GIFTS.

Mrs. Wm. H. Upson, of Akron, presented to the Natural Science Department about one hundred mounted specimens of sea mosses from Gardener's Bay, Long Island, and about fifty specimens of Marine Algae.

Miss Jessie Townsend presented a lot of ore samples and other specimens.

Mr. E. A. Whiteman, of Akron, presented an old Sextant and Star Guide. The Sextant was made by Parnell, of London, in 1798, and was used by the late H. R. Whiteman, father of the donor.

Gifts to the Library, 1909-1910.

Name.	No. Vols.
Dr. E. Stanley Abbot	2
Akron Public Library	1
American Bar Association	1
Arkansas Geological Survey	1
Wharton Barker	1
Buchtelite Staff, '09	1
Dr. A. B. Church	5
Mrs. Laura Fuller	1
Rev. F. M. Green	13
Harvard University	1
International Correspondence School	1
Interstate Commerce Commission	1
Estate Rev. J. R. Johnson, D. D.	139
Elizabeth Kingsbury	1
Lake Forest College	4
Library of Congress	1
Herbert Mallory	1
J. H. Moon	1
Henry C. Morris	2
National Education Association	1
New Jersey State Board of Health	1
New York Agricultural Experiment Station	2
New York State Education Department	2
Ohio Commissioner of Labor	1
Ohio State Board of Health	1
Rabbi I. E. Philo	12

George Lansing Raymond	9
A. Ross Read	1
Scandinavian-American Steamship Line	1
C. H. Shipman	3
Smithsonian Institute	1
U. S. Brewers' Association	1
U. S. National Museum	4
U. S. Government	14
Universalist Publishing House	1
E. F. Voris	130
Total.....	363

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