

CATALOGUE

... OF ...

BUCHTEL COLLEGE.



1893-94.

CATALOGUE

... OF ...

BUCHTEL COLLEGE

AKRON, OHIO.

COLLEGIATE DEPARTMENT.

PREPARATORY DEPARTMENT.

NORMAL DEPARTMENT.

1893-94.

AKRON, OHIO
THE AKRON PRINTING AND PUBLISHING COMPANY
1894

"Let There Be Light."

BUCHTEL COLLEGE

NAMED IN HONOR OF

HON. JOHN R. BUCHTEL.

FOUNDED BY THE

OHIO UNIVERSALIST CONVENTION.

Open alike to students of both sexes, and of all religious opinions, and designed to furnish the highest grade of Classical, Scientific, and Literary Scholarship, under the immediate direction of thorough and experienced teachers.

COLLEGE CALENDAR.

1894.

SPRING TERM.

Saturday, June 2.—Senior Vacation begins.
Saturday, June 16, 7:30 P. M.—Senior Preparatory Exercises.
Sunday, June 17.—Baccalaureate Sermon.
Monday, June 18, 7:30 P. M.—Ashton Prize Speaking.
Tuesday, June 19, 2 P. M.—Annual Meeting of the Alumni Association.
Tuesday, June 19, 3 P. M.—Address before the Alumni Association.
Tuesday, June 19, 7:30 P. M.—Alumni Social Reunion.
Wednesday, June 20, 8:30 A. M.—Examinations for Admission.
Wednesday, June 20.—Annual Meeting of the Board of Trustees.
Wednesday, June 20, 1:30 P. M.—Class Day Exercises.
Thursday, June 21, 9:30 A. M.—Annual Address and Graduating Exercises.

FALL TERM.

Tuesday, September 18.—Registration and Entrance Examinations.
Wednesday, September 19.—Instruction begins.
Friday, December 14, 7 P. M.—Ashton Prize Speaking, Senior Class.
Thursday, December 20.—Fall Term ends.

1895.

WINTER TERM.

Tuesday, January 8.—Registration and Entrance Examinations.
Wednesday, January 9.—Instruction begins.
Friday, January 18.—Founder's Day.
Friday, February 15, 7 P. M.—Ashton Prize Speaking, Sophomore Class.
Thursday, March 28.—Winter Term ends.

SPRING TERM.

Tuesday, April 2.—Registration and Entrance Examinations.
Wednesday, April 3.—Instruction begins.
Saturday, June 8.—Senior Vacation begins.
Sunday, June 23, to Thursday, June 27.—Commencement Exercises.

FALL TERM.

Tuesday, September 17.—Registration and Entrance Examinations.
Wednesday, September 18.—Instruction begins.
Thursday, December 19.—Fall Term ends.

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ORGANIZATION OF THE TRUSTEES.

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FACULTY AND INSTRUCTORS.

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Messenger-Professor of Mental and Moral Philosophy.
506 Buchtel Avenue. (President's House.)

CHARLES M. KNIGHT, A. M.,
Buchtel-Professor of Physics and Chemistry.
219 S. Union Street.

CARL F. KOLBE, A. M., Ph. D.,
Hilton-Professor of Modern Languages.
527 Buchtel Avenue.

WILLIAM D. SHIPMAN, A. M.,
*Professor of the Greek Language and Literature,
and Philological Science.*
231 S. Union Street.

CHARLES C. BATES, A. M.,
*Professor of the Latin Language and Literature,
and Secretary of the Faculty.*
552 Buchtel Avenue.

E. W. CLAYPOLE, B. A., D. SC. (Lond.), F. G. SS. L. E. & A.,
Professor of Natural Science.
603 Buchtel Avenue.

HERMAS V. EGBERT, A. M.,
Ainsworth-Professor of Mathematics and Astronomy.
549 Buchtel Avenue.

L. ALONZO BUTTERFIELD, A. M., Ph. D.,
Ryder-Professor of Rhetoric and Oratory.
151 S. Summit Street.

ELLEN E. GARRIGUES, A. M.,
*Pierce-Professor of English Literature, and Instructor in Logic
and English History.*
West Hall.

JOHN W. SLEPPEY, A. M.,
Adjunct Professor of Mathematics.
257 Carroll Street.

CHARLES R. GRANT, A. B.,
Instructor in Law.
581 W. Market Street.

CHARLES R. OLIN, B. S.,
Librarian.
503 Spicer Street.

JENNIE GIFFORD, A. M.,
Principal of Preparatory Department, and Teacher of Science.
107 S. Union Street.

SAMUEL FINDLEY, A. M., PH. D.,
Principal of Normal Department.
134 S. Maple Street.

MARY E. STOCKMAN, L. A.,
Teacher of English and Latin.
107 S. Union Street.

MARTHA A. BORTLE,
Teacher of English and Rhetorical Work.
West Hall.

EDWIN L. FINDLEY, A. B.,
Teacher of Greek and Latin.
134 S. Maple Street.

WILLET L. HARDIN, B. S.,
Instructor in Physics, and Assistant in Chemistry.
538 Buchtel Avenue.

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Teacher of Piano and Theory.
126 S. Broadway.

DANN D. GAGE,
Teacher of Vocal Music.
538 Buchtel Avenue.

GUSTAV SIGEL,
Teacher of Violin, Cello and Zither.
125 Crosby Street.

MINNIE C. FULLER,
Teacher of Painting and Drawing.
147 Crosby Street.

GYMNASIUM OFFICERS.

JOHN W. HEISMAN, LL. B.,
Director.

ELLEN E. GARRIGUES, A. M.,
Instructor for Women.

ALBERT HOOVER, M. D.,
Oculist.

ENDOWMENTS.

MESSENGER PROFESSORSHIP.

The Messenger Professorship of Mental and Moral Philosophy was endowed by Mrs. Lydia A. E. Messenger, 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, of Akron.

PIERCE PROFESSORSHIP.

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

BUCHTEL PROFESSORSHIP.

The Buchtel Professorship of Physics and Chemistry was endowed by Mrs. Elizabeth Buchtel, of Akron.

AINSWORTH PROFESSORSHIP.

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

MESSENGER FUND.

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

ISAAC AND LOVINA KELLY FUND.

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

PERPETUAL SCHOLARSHIPS.

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

*Miss E. V. Steadman	Marietta.
*James Pierce	Sharpsville, Pa.
*Elijah Drury	Girard, Pa.
Mrs. Mary C. Martin	Hamilton.
*James F. Davidson	Brimfield.
*†Miss Betsy Thomas	Irwin.
*John Perdue	Lafayette, Ind.
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*Mrs. George W. Steele	Painesville.
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Brice Hilton	Defiance.
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*John Espy	Kenton.
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*George Thomas	Greenwich.
Mrs. E. W. Terrill	Jeffersonville.
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†Mrs. Charlotte Robson	Newport, Ky.
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*Samuel Grandin	Tidioute, Pa.
N. B. and A. E. Johnson	Mingo.
*Lloyd Nichols	Walhounding.
*Henry Ainsworth (10)	Lodi.
Lydia A. Drake	Norwood.
Miss Anna A. Johnson	Bay City, Mich.
Mr. and Mrs. John Miller	Edgerton.
John P. Chapin	New Philadelphia.
Christian Swank	Sheldon, Ind.
Mrs. S. O. Acomb	Tidioute, Pa.

These scholarships are intended to aid worthy and deserving students.

*Deceased.

†In honor of her father, Eliphas Burnham.

... ‡In memory of her deceased husband, William Robson.

GENERAL INFORMATION.

BUCHTEL COLLEGE was founded in 1870, 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 35,000, is situated in the midst of hills and valleys, and is one of the most picturesque in the country. It is a healthy city, and easy of access, being located on the line of the New York, Pennsylvania & Ohio; Cleveland, Akron & Columbus; Valley; Pittsburgh & Western; Pittsburgh, Akron & Western, and Baltimore & Ohio Railways, and having direct connection with all parts of the country.

COLLEGIATE DEPARTMENT.

The curriculum embraces :

FIRST: A Classical Course.

SECOND: A Philosophical Course.

THIRD: A Scientific Course.

These are four-year courses and are equal to those adopted by the best institutions of the country.

PREPARATORY DEPARTMENT.

In connection with the College proper, the Trustees have established a Preparatory School, in which students are thoroughly fitted for the college classes. The course is full and practical, consisting of the studies usually found in High Schools and Academies.

NORMAL WORK.

Teachers, and those designing to teach, will receive special attention from thorough and experienced teachers in those studies which Examining Boards make essential to a thorough professional education. Regular work will be given in Methods of Teaching, and in the Art of School Management, whereby students may be better prepared for good and successful work in their own school rooms. Certificates will be given to those completing the Normal Course. For further information see remarks under Normal Course.

MUSIC AND ART.

For the benefit of those who desire to pursue vocal or instrumental Music or Art in addition to their college work thoroughly competent instructors are provided.

LABORATORY AND APPARATUS.

The College is provided with excellent Mathematical Instruments, and Philosophical and Chemical Apparatus of the most approved kind. It has a laboratory open to students, well furnished with appliances for making chemical experiments and analyses. The Department of Natural History is also well supplied with microscopes for the prosecution of biological work.

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 fine Astronomical Clocks furnished with electric connections.

A Chronograph.

Various other minor apparatus.

The Observatory is also a Meteorological Station of the Ohio State Meteorological Bureau.

CABINET OF NATURAL HISTORY.

The College Museum proper contains a fair collection of minerals and fossils with the leading types of recent animal life. It is adapted for teaching rather than for show, and the specimens are chosen with the same object in view.

The collection consists of two parts—the general museum, illustrating Natural History in general, and the local collection, intended to illustrate the natural history of the region in which the College is situated.

The new Science Hall, now in process of construction, will form an epoch in the history of the scientific department. The overcrowding from which it has so long suffered will be relieved and greater justice can be done to the classes in Natural History and to the accumulated material now stored in places where it is inaccessible when wanted. All this will become available for exhibition and for teaching. At the same time the specimens now in hand will not suffice for the new requirements, and contributions are earnestly solicited from friends of education in general and of Buchtel College in particular.

LIBRARY AND READING ROOM.

The College Library contains a well selected collection of works especially adapted to college uses. It numbers about 6,000 bound volumes, exclusive of public documents, and a large collection of unbound pamphlets, all of which are arranged and classified by the Dewey system of classification. The reference department is liberally supplied with dictionaries, encyclopedias, bound sets of periodicals (many of which are complete, to date, or nearly so), and other works of reference, which are accessible to students during all library hours.

The collection of books is being catalogued upon cards, the author card catalogue being about completed. This catalogue is now accessible to all users of the library.

During the college session the Library is open to the use of students daily (except Saturdays and Sundays), from 7:30 A. M. to 5 P. M. On Saturdays it is open from 8:30 A. M. to 5 P. M., and on Sundays the reference department and reading room are open from 8 to 9 A. M., and from 1:30 to 5 P. M.

Books may be drawn from the Circulating Library by all officers and students of the College.

In connection with the Library there is a Reading Room, upon whose files are to be found many of the leading publications of the day. The subscription list embraces the most important publications in the various departments of college work, which are selected by the professors with special reference to supplementing their class room instruction.

The Akron Public Library has a large and useful collection of books, which students are also permitted to use under certain conditions.

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 a bowling alley with two beds, and dressing and bathing rooms thoroughly furnished. On the first floor are the Director's office and the gymnasium proper, which is eighty-four feet long and forty-eight feet broad. This room is equipped with the most approved apparatus and offers every facility for physical development. A running gallery, of twenty-five laps to the mile, surrounds the room. The examination room is on the second floor and contains the apparatus for measuring the various parts of the body and testing the strength of the back, legs, lungs, chest and arms.

All students, unless excused for some good reason, are obliged to exercise two hours per week under the direction of the instructors.

The gymnasium is open from 7:30 A. M. to 5:30 P. M., one-half of each day exclusively for the young women and the other half day exclusively for the young men. Students are encouraged to exercise every day, a healthy body being the necessary adjunct of a well developed mind.

In addition to the above mentioned facilities for physical culture, the College possesses extensive and elaborately equipped Athletic Grounds, which are admirably adapted for the use of the students in playing base ball, foot ball, lawn tennis and similar games. In the rear of the Gymnasium a large frame building, technically styled a "cage," has been erected, in which, when the weather is unfavorable for outside exercise, the young men may play base ball, foot ball and lawn tennis and thus keep constantly in practice.

All the work in this department is performed under the personal supervision and direction of a competent instructor.

INSTRUCTION.

The instruction of the College aims to combine the advantages of the lecture and recitation systems.

CO-EDUCATION.

The College is open to students of both sexes, who are admitted to equal educational privileges and honors.

RELIGION.

No restriction is imposed upon students in the exercise of religious opinions.

Students attend whatever church their parents or guardians may elect. Nearly all denominations are represented in Akron by flourishing churches. While the College recognizes and honors religion and stands firmly upon the principles of Christianity, it is, in its internal economy, in no sense sectarian.

Religious opinions are respected, but are not taught.

All students are required to attend morning prayers and the reading of the Scriptures in the Chapel.

ADMISSION AND RECORD. .

Candidates for admission, who present satisfactory grades from schools of good standing, will be admitted without examination, subject to the condition that they sustain themselves in their work. All others will be examined.

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.

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.

Students having completed the studies of the Preparatory Department 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.

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

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

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

Reports of the grades of all students will be sent to parents or guardians at the close of each session.

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.

The Master's Degree will be conferred only for special work in any two departments, and the applicants for this degree are required to pursue work beyond the College Curriculum under the direction of the Professors of the departments selected, and in one of these prepare a satisfactory thesis.

Candidates for this degree must present themselves for examination, and pay a fee of ten dollars not later than the Monday before Commencement.

ROOMING AND BOARDING.

The College building affords ample accommodations for boarding eighty students.

Board without room may be secured in private families for \$3.00 a week and upward, but young women are expected to room in the building, except for reasons satisfactory to those immediately in charge of them. The rooms are heated by steam and lighted by gas.

Young men may board in the College building, but they must room outside with private families, where the room rent varies from \$1.00 to \$1.50 per week.

BOARDING CLUBS.

Several clubs are in successful operation, in which board is obtained at \$2.50 per week. Others will be organized whenever there is a sufficient demand for them. This mode of living is quite popular at the College, many of the students having adopted it.

PRIZE FUNDS.

ALUMNI PRIZES.—A fund has been established by the Alumni of the College, the interest of which is annually appropriated as follows: For the Senior Preparatory student making the highest average record, Freshman tuition is paid; for the Freshman making the highest average

record, Sophomore tuition is paid; for the Sophomore making the highest average record, Junior tuition is paid; for the Junior making the highest average record, Senior tuition is paid.

OLIVER C. ASHTON PRIZES.—A fund consisting of \$3,000 has been established by Mr. Oliver C. Ashton, of Bryan, O., 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 public readings and recitations will take place at stated times during the year.

PENDLETON 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, of Akron, the annual income of which is used as prizes for essays in the Law Class. Two-thirds of such income is annually paid for the best essay, and one-third for the second best essay, on some subject of Law or Government, announced by the Instructor.

SCHOLARSHIPS.

HIGH SCHOOL.—Two standing scholarships are offered by Buchtel College to the graduates of each of the following High Schools:

Norwalk, Cuyahoga Falls, Medina, Warren, Youngstown, Chagrin Falls, Chardon, Canton, Massillon, Kent, Ravenna, Wellington, Geneva, Bedford and Sandusky. To the Akron High School has been awarded one *annual* scholarship.

These scholarships are awarded to the applicant who stands highest in his class, and are subject to conditions which may be known on application to the President of Buchtel College.

TOWNSHIP.—Two standing scholarships in the Preparatory and Normal Departments 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 Boxwell Law.

EXPENSES.

TUITION.

Fall Term, College.....	\$15 00
Winter " "	12 50
Spring " "	12 50
Fall " Preparatory or Normal.....	9 00
Winter " " " "	7 50
Spring " " " "	7 50
Piano { private lessons, per term of 20 lessons.....	20 00
{ class lessons, " " " " " "	15 00
Organ } Violin } Cello } Zither }	per term of 20 lessons..... 15 00
Voice	30 00
Use of Piano, per term, one hour per day.....	2 00
Fall Term, half day.....	22 50
Winter and Spring Terms, each, half day.....	18 00
One month, half day.....	Art, 8 00
Children's Class, Saturday morning, per term.....	5 00
All other arrangements, per hour.....	25

GENERAL.

Room Rent, per week, in building, each student (depending on location and size of room).....	25 to 75
Heat and Light, per week (each person, 40c.), per room.....	80
Board per week, in building.....	3 00
" " " " clubs	2 50
Washing, per dozen, as per schedule.....	50
Incidentals, including Library and Reading Room fee, per term	1 00

Students in the College and Preparatory Departments pursuing one study only, will be charged one-half the regular tuition. For more than one study, full tuition will be charged.

REMARKS.

Each room is furnished with bedstead, mattresses, pillows, chairs, table, stand, bureau, mirror and commode. Those intending to occupy rooms in the College building should bring sheets, pillow cases, blankets, napkins, towels, etc.

All articles of clothing should be marked with the full name.

The College authorities reserve the privilege of locating two students in each room.

Rooms in the College are heated by steam and lighted by gas. They are commodious, well ventilated, and pleasant. Frequent opportunities for social gatherings are offered to students, good manners are cultivated, and every effort is put forth to make the College a HOME for the student.

To students working in the Chemical Laboratory a small charge will be made, to cover use of chemicals and breakage.

To students working in the department of Natural Science a charge will be made for the use of instruments and material.

To each student upon graduation a charge of \$5.00 for Diploma will be made.

Tuition and room rent for the term must be paid in advance. No tuition or room rent 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 information in regard to accommodations and expenses, address

C. R. OLIN, SECRETARY.

For information in relation to admission and course of study, address

DR. O. CONE, PRESIDENT.

COLLEGIATE DEPARTMENT.

FACULTY AND INSTRUCTORS.

REV. ORELLO CONE, D. D.,
PRESIDENT;

Messenger-Professor of Mental and Moral Philosophy.

CHARLES M. KNIGHT, A. M.,
Buchtel-Professor of Physics and Chemistry.

CARL F. KOLBE, A. M., PH. D.,
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*Pierce-Professor of English Literature, and Instructor
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JOHN W. SLEPPEY, A. M.,
Adjunct Professor of Mathematics.

CHARLES R. GRANT A. B.,
Instructor in Law.

WILLETT L. HARDIN, B. S.,
Instructor in Physics, and Assistant in Chemistry.

COLLEGIATE COURSES.

THREE COURSES OF STUDY.

To afford an extensive field for the choice of studies, three regular courses, each of four years, are provided, with three years of preparatory work. These are :

- I. The Classical Course, with the Degree of Bachelor of Arts, for graduation.
- II. The Philosophical Course, with the Degree of Bachelor of Philosophy.
- III. The Scientific Course, with the Degree of Bachelor of Science.

ELECTIVE OPPORTUNITIES.

Buchtel College stands in line with the most progressive educators and colleges in the country in presenting very extensive elective courses.

All studies in the above named courses are elective after the first term of the Sophomore year. Each student is expected to select four subjects, sixteen recitations, per week; and to choose, as far as practicable, consecutive lines of work. Those electing studies will be required to satisfy the Faculty that they are qualified to pursue them, and so to elect that they will be able to obtain the requisite number of subjects each session throughout the course. By means of this system, applying as it does to the latter two-thirds of the course, the professors are enabled to extend each department of work considerably beyond the limitations of the ordinary college curriculum, and students are enabled to follow out those lines of advanced study most congenial to them. The experience of several years has proved this method to be highly satisfactory and successful.

Students are required to hand to the Secretary of the Faculty, at least two weeks before the beginning of any term, a list of their elective studies for that term.

TERMS OF ADMISSION.

Candidates for the Freshman Class, not presenting satisfactory grades, will be required to pass an examination in the following or equivalent branches :

CLASSICAL COURSE.

GREEK.—Grammar (Goodwin or Allen-Hadley); three books of the Anabasis; Prose Composition, as found in Jones' Exercises; Greek History, as found in Pennell.

LATIN.—Grammar, including Prosody (Harkness or Allen & Greenough); three books of Cæsar's Commentaries; six of Cicero's Orations; six books of Vergil's Æneid; the first twenty lessons of Jones' Latin Prose Composition; Roman History.

MATHEMATICS.—Arithmetic (including the Metric System); Algebra, Wentworth's School Algebra through Quadratic Equations or its equivalent; Geometry, plane and solid.

ENGLISH.—Composition; Grammar; Analysis; Elementary Rhetoric; Reading of English and American Writers.

HISTORY.—United States.

DRAWING.—Free Hand.

PHILOSOPHICAL COURSE.

LATIN.—Grammar, including Prosody (Harkness or Allen & Greenough); three books of Cæsar's Commentaries; six of Cicero's Orations; six books of Vergil's Æneid; the first twenty lessons of Jones' Latin Prose Composition; Roman History.

MATHEMATICS.—Arithmetic (including the Metric System); Algebra, Wentworth's School Algebra through Quadratic Equations or its equivalent; Geometry, plain and solid.

NATURAL SCIENCE.—Physiology; Physical Geography.

ENGLISH.—Composition; Grammar; Analysis; Elementary Rhetoric; Reading of English and American Writers.

HISTORY.—United States; General History.

POLITICAL SCIENCE.—Civil Government.

DRAWING.—Free Hand.

SCIENTIFIC COURSE.

LATIN.—Grammar, including Prosody (Harkness or Allen & Greenough); three books of Cæsar's Commentaries, six of Cicero's Orations.

MATHEMATICS.—Arithmetic (including the Metric System); Algebra, Wentworth's School Algebra through Quadratic Equations or its equivalent; Geometry, plain and solid.

NATURAL SCIENCE.—Physiology; Natural Philosophy; Physical Geography.

ENGLISH.—Composition; Grammar; Analysis; Elementary Rhetoric; Reading of English and American Writers.

HISTORY.—United States; General History.

POLITICAL SCIENCE.—Civil Government.

DRAWING.—Free Hand.

Beginning with 1895, all applicants must furnish satisfactory evidence of having read the following works. While no examinations will be required on the work arranged for 1894, candidates for admission are urgently advised to make themselves familiar with the same.

FOR 1894.—Lamb's Tales from Shakespeare; Longfellow's Evangeline; Hawthorne's Wonder Book; Shakespeare's Merchant of Venice; Dickens' Tale of Two Cities.

FOR 1895.—Lamb's Tales from Shakespeare; Hawthorne's Wonder Book; Longfellow's Courtship of Miles Standish; Shakespeare's Merchant of Venice and Julius Cæsar; Macaulay's Essay on the Earl of Chatham; Scott's Ivanhoe; Coleridge's Ancient Mariner; Irving's Sketch Book; George Eliot's Adam Bede.

FOR 1896.—Lamb's Tales from Shakespeare; Longfellow's Evangeline; Webster's First Bunker Hill Oration; Hughes' Tom Brown's School Days; Shakespeare's As You Like It and Julius Cæsar; Dickens' David Copperfield; Hawthorne's Scarlet Letter; Addison's The Sir Roger de Coverley Papers; Scott's The Talisman.

Candidates for examination on the above must be prepared not only as to the subject-matter, but they must be able to express themselves in correct literary form.

SPECIAL STUDENTS.

All students are advised to pursue a regular course of study, even if it cannot be completed. Those students, however, who do not desire to study for a degree, may obtain permission, by petition to the Faculty, to select such branches and special lines of study as they may be found fitted to pursue. Such irregular students admitted to college classes must be sufficiently advanced to have substantially completed a high school or college preparatory course of study.

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 proportionally advanced, should they later decide to take a regular course.

On the completion of their studies, such students will receive a certificate stating what work has been done.

COLLEGE COURSES OF STUDY.

CLASSICAL COURSE.

PHILOSOPHICAL COURSE.

SCIENTIFIC COURSE.

CLASSICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Greek: Xenophon's Memorabilia, (ten weeks). Homer's Iliad.
Four hours per week.

Latin: Livy; Roman Antiquities; Prose Composition.
Three hours per week.

Mathematics: Algebra. *Three hours per week.*

Natural Science: Zoology. *Three hours per week.*

Oratory: Rhetoric; Themes; Elocution; Expression; Declamation.
Two hours per week.

SECOND TERM.

Greek: Homer's Iliad; Greek Literature. *Four hours per week.*

Latin: Livy; Cicero, De Amicitia; Prose Composition.
Four hours per week.

Mathematics: Plane Trigonometry; Use of Logarithm Tables.
Four hours per week.

Oratory: Rhetoric; Themes; Elocution; Expression; Declamation.
Three hours per week.

THIRD TERM.

Greek: Boise and Freeman's Selections; Odyssey, Herodotus, and
Thucydides; Greek Literature. *Four hours per week.*

Latin: Horace's Odes; Cicero, De Amicitia; Prose Composition.
Three hours per week.

Mathematics: Spherical Trigonometry, (eight weeks); Analytical
Geometry. *Four hours per week.*

Natural Science: Botany. *Three hours per week.*

Oratory: Rhetoric; Themes; Elocution; Expression; Declamation.
Two hours per week.

SOPHOMORE YEAR.

FIRST TERM.

Greek: Drama, Sophocles; Antigone or Oedipus Tyrannus; Greek
Literature. *Four hours per week.*

Latin: Horace's Satires and Epistles; Roman Literature; Latin Selec-
tions. *Four hours per week.*

Mathematics: Analytical Geometry, completed. *Three hours per week.*

Oratory: Themes; Philosophy of Style; Elocution. *Two hours per week.*

Physical Science: Chemistry, non-metallic elements; Laboratory
Practice. *Six hours per week.*

One lecture and one recitation per week.

Studies are elective from this point, and each four hours per week, except the
Chemistry. See page 25.

SECOND TERM.

Greek: Drama, Euripides; Medea or Iphigenia in Tauris; Greek Literature.
Latin: Germania and Agricola of Tacitus; Sallust, Catiline.
Literature: History of English Literature.
Mathematics: Differential Calculus.
Natural Science: Mineralogy and Geology.
Oratory: Themes; Vocal Physiology; Expression; Lectures.
Physical Science: Chemistry, metallic elements; Laboratory Practice, with blow-pipe analysis. *Six hours per week.*
Students report to class on special topics. *Two hours per week.*

THIRD TERM.

Greek: Drama, Æschylus; Prometheus Bound or Agamemnon - Greek Literature.
Latin: Cicero, De Claris Oratoribus; Quintilian.
Literature: History of English Literature.
Mathematics: Integral Calculus; Surveying, with field practice. Full term's work in each subject.
Natural Science: Vegetable Histology and Physiology. Use of the Microscope.
Oratory: Themes; Bell's Visible Speech; Extemporaneous Speaking; Sources of Power in Oratory.
Physical Science: Chemistry, qualitative analysis. *Eight hours per week.*

JUNIOR YEAR.

FIRST TERM.

German: Joynes-Meissner's Grammar; Exercises from English into German; Joynes' Reader.
Greek: Oratory, Demosthenes; Third Olynthiac and Philippics.
Latin: Terence: Andria, Heauton Timorumenos, Adelphoe, Phormio; Plautus: Captivi, Rudens, Trinummus, Menaechmi.
Logic: Deductive and Inductive.
Natural Science: Invertebrate Zoology.
Philology: Science and Philosophy of Language; Exercises.
Physical Science: 1. Chemistry, quantitative analysis, gravimetric and volumetric. *Eight hours per week.*
2. Mechanics and Pneumatics: Recitations and lectures.
Political Science: Principles of Political Economy. Ely's Outlines of Economics.

SECOND TERM.

German: Joynes-Meissner's Grammar; Exercises from English into German; Joynes' Reader.
Greek: Comedy, Aristophanes, The Clouds or The Frogs.
Latin: Juvenal; Persius; Catullus.
Literature: American Authors.
Oratory: Themes; Voice Culture; Models; Oratorical and Dramatic Delivery.
Philosophy: Psychology; Study of Physiological Theories. James' Psychology.

Physical Science: 1. Chemistry, quantitative analysis. Technical work. Fire Assaying of gold, silver and lead ores.

Eight hours per week.

2. Sound and Heat. Recitations, lectures and laboratory practice.

THIRD TERM.

Astronomy: Descriptive; Illustrated by the apparatus of the Observatory.

German: Schiller's *Der Neffe als Onkel*; Hillern's *Höher als die Kirche*; Gerstäcker's *Germelshausen*. Review of Grammar, partly written, partly oral, (in German.)

Greek: New Testament, Westcott and Hort.

Latin: Seneca, Moral Essays, Epistles; Pliny, Letters.

Oratory: Orations; Lectures; Oratorical and Dramatic Delivery.

Philosophy: Psychology; Study of Physiological Theories. James' Psychology.

Physical Science: 1. Chemistry, organic; Recitations with laboratory work.

Eight hours per week.

2. Light and Photography. Recitations, lectures and laboratory practice. The months of May and June are devoted to the practice of Photography.

SENIOR YEAR.

FIRST TERM.

Astronomy: Practical and Spherical; Observatory Work.

French: Edgren's Grammar; Exercises from English into French; Super's Reader.

German: Schiller's *Maria Stuart*; Harris' and Stein's Selections for German Composition; Dictation.

Greek: The Lyric Poets, Tyler's edition.

Latin: Lucretius, *De Rerum Natura*; Vergil, *Georgics*.

Law: Constitutional.

Literature: Chaucer, Spenser and Milton.

Oratory: Philosophy of Expression; Oratorical and Dramatic Delivery.

Philosophy: Natural Theology. Schurman's *Belief in God*.

Physical Science: Electricity and Magnetism; Recitations, lectures and laboratory practice with frequent visits to various electrical plants.

SECOND TERM.

Astronomy: Practical and Spherical; Observatory Work.

French: Review of Grammar, partly written and partly oral; Special drill on irregular verbs; Scribe's *Le Verre d'Eau*; Musset's *Pierre et Camille*; Berthet's *Le Pacte de Famille*.

German: Hoffmann's *Historische Erzählungen*; Schiller's Ballads; German Composition; History of German Literature.

Greek: Philosophy, Plato; The *Gorgias*; or Drama to be selected.

Latin: Cicero, *Tusculan Disputations*.

Law: Municipal.

Literature: History of English Dramatic Literature.

Natural Science: Comparative Anatomy and Physiology.

Philosophy: Ethics; Study of Ethical Theories; Bowne's Ethics; Discussions; Martineau's Types of Ethical Theory.

THIRD TERM.

Astronomy: Practical and Spherical; Observatory Work.

French: Racine's Phèdre; Molière's Le Misanthrope.

German: Sesenheim (Goethe's Dichtung und Wahrheit); Goethe's Hermann and Dorothea; German Composition; History of German Literature.

Greek: Pindar's Odes; or Drama to be selected.

Latin: Cicero, De Natura Deorum; Hymns of the Church Fathers.

Law: International.

Literature: Shakespeare.

Natural Science: Geology and Palæontology.

Philosophy: Ethics; Study of Ethical Theories; Bowne's Ethics; Discussions; Martineau's Types of Ethical Theory.

PHILOSOPHICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

German: Joynes-Meissner's Grammar; Exercises from English into German; Joynes' Reader. *Four hours per week.*

Latin: Livy; Roman Antiquities; Prose Composition. *Three hours per week.*

Mathematics: Algebra. *Three hours per week.*

Natural Science: Zoology. *Three hours per week.*

Oratory: Rhetoric; Themes; Elocution; Expression; Declamation. *Two hours per week.*

SECOND TERM.

German: Joynes-Meissner's Grammar; Exercises from English into German; Joynes' Reader. *Four hours per week.*

Latin: Livy; Cicero, De Amicitia; Prose Composition. *Four hours per week.*

Mathematics: Plane Trigonometry; Use of Logarithm Tables. *Four hours per week.*

Oratory: Rhetoric; Themes; Elocution; Expression; Declamation. *Three hours per week.*

THIRD TERM.

German: Schiller's Der Neffe als Onkel; Hillern's Höher als die Kirche; Gerstäcker's Garmelshausen. Review of Grammar, partly written, partly oral, (in German.) *Four hours per week.*

Latin: Horace's Odes ; Cicero, De Amicitia ; Prose Composition.

Mathematics: Spherical Trigonometry, (eight weeks); Analytical Geometry. *Three hours per week.*

Natural Science: Botany. *Four hours per week.*

Oratory: Rhetoric ; Themes ; Elocution ; Expression ; Declamation. *Three hours per week.*

Two hours per week.

SOPHOMORE YEAR.

FIRST TERM.

German: Schiller's Maria Stuart ; Harris' and Stein's Selections for German Composition ; Dictation. *Four hours per week.*

Latin: Horace's Satires and Epistles ; Roman Literature ; Latin Selections. *Four hours per week.*

Mathematics: Analytical Geometry, completed. *Three hours per week.*

Oratory: Themes ; Philosophy of Style ; Elocution. *Two hours per week.*

Physical Science: Chemistry, non-metallic elements ; Laboratory Practice. *Six hours per week.*

One lecture and one recitation per week.

Studies are elective from this point, and each four hours per week, except the Chemistry. See page 25.

SECOND TERM.

German: Hoffmann's Historische Erzählungen ; Schiller's Ballads ; German Composition ; History of German Literature.

Latin: Tacitus, Agricola, Germania ; Sallust, Catiline.

Literature: History of English Literature.

Mathematics: Differential Calculus.

Natural Science: Mineralogy and Geology.

Oratory: Themes ; Vocal Physiology ; Expression ; Lectures.

Physical Science: Chemistry, metallic elements. Laboratory Practice, with blow-pipe analysis. *Six hours per week.*

Students report to class on special topics. *Two hours per week.*

THIRD TERM.

German: Sesenheim (Göthe's Dichtung und Wahrheit) ; Göthe's Hermann und Dorothea. German Composition ; History of German Literature.

Latin: Cicero, De Claris Oratoribus ; Quintilian.

Literature: History of English Literature.

Mathematics: Integral Calculus ; Surveying, with field practice. Full term's work in each subject.

Natural Science: Vegetable Histology and Physiology. Use of the Microscope.

Oratory: Themes ; Bell's Visible Speech ; Extemporaneous Speaking ; Sources of Power in Oratory.

Physical Science: Chemistry, qualitative analysis. *Eight hours per week.*

JUNIOR YEAR.

FIRST TERM.

German: Schiller's Wallenstein; German Essays and Letters; Reading at Sight; History of German Literature.
Latin: Terence: Andria, Heauton Timorumenos, Adelphoe, Phormio; Plautus: Captivi, Rudens, Trinummus, Menaechmi.
Logic: Deductive and Inductive.
Natural Science: Invertebrate Zoology.
Philology: Science and Philosophy of Language; Exercises.
Physical Science: 1. Chemistry, quantitative analysis, gravimetric and volumetric. *Eight hours per week.*
2. Mechanics and Pneumatics: Recitations and lectures.
Political Science: Principles of Political Economy; Ely's Outlines of Political Economics.

SECOND TERM.

German: Göthe's Faust, Part 1; Boyeson's Göthe and Schiller; History of German Literature; Review of History of Literature, (written in German).
Latin: Juvenal; Persius; Catullus.
Literature: American Authors.
Oratory: Themes; Voice Culture; Models; Oratorical and Dramatic Delivery.
Philosophy: Psychology; Study of Physiological Theories; James' Psychology.
Physical Science: 1. Chemistry, quantitative analysis; Technical work: Fire Assaying of gold, silver and lead ores. *Eight hours per week.*
2. Sound and Heat: Recitations, lectures and laboratory practice.

THIRD TERM.

Astronomy: Descriptive; illustrated by the apparatus of the Observatory.
German: Göthe's Faust, Part 1 finished; History of German Literature: Review of History of Literature, (written in German).
Latin: Seneca, Moral Essays, Epistles; Pliny, Letters.
Oratory: Orations; Lectures; Oratorical and Dramatic Delivery.
Philosophy: Psychology: Study of Physiological Theories: James' Psychology.
Physical Science: 1. Chemistry, organic; Recitations with laboratory work. *Eight hours per week.*
2. Light and Photography; Recitations, lectures and laboratory practice. The months of May and June are devoted to the practice of Photography.

SENIOR YEAR.

FIRST TERM.

Astronomy: Practical and Spherical; Observatory Work.
French: Edgren's Grammar; Exercises from English into French; Super's Reader.

Latin: Lucretius, De Rerum Natura ; Vergil, Georgiçs.
Law: Constitutional.
Literature: Chaucer, Spenser and Milton.
Oratory: Philosophy of Expression ; Oratorical and Dramatic Delivery.
Philosophy: Natural Theology ; Schurman's Belief in God.
Physical Science: Electricity and Magnetism ; Recitations, lectures and laboratory practice with frequent visits to various electrical plants.

SECOND TERM.

Astronomy: Practical and Spherical ; Observatory Work.
French: Review of Grammar, partly written and partly oral ; Special drill on irregular verbs ; Scribe's Le Verre d'Eau ; Musset's Pierre et Camille ; Berthet's Le Pacte de Famine.
Latin: Cicero, Tusculan Disputations.
Law: Municipal.
Literature: History of English Dramatic Literature.
Natural Science: Comparative Anatomy and Physiology.
Philosophy: Ethics ; Study of Ethical Theories ; Bowne's Ethics ; Discussions ; Martineau's Types of Ethical Theory.

THIRD TERM.

Astronomy: Practical and Spherical ; Observatory Work.
French: Racine's Phèdre ; Molière's Le Misanthrope.
Latin: Cicero, De Natura Deorum ; Hymns of the Church Fathers.
Law: International.
Literature: Shakespeare.
Natural Science: Geology and Palæontology.
Philosophy: Ethics ; Study of Ethical Theories ; Bowne's Ethics ; Discussions ; Martineau's Types of Ethical Theory.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

German: Joynes-Meissner's Grammar ; Exercises from English into German ; Joynes' Reader. *Four hours per week.*
History: English People. *Three hours per week.*
Mathematics: Algebra. *Three hours per week.*
Natural Science: Zoology. *Three hours per week.*
Oratory: Rhetoric ; Themes ; Elocution ; Expression ; Declamation. *Two hours per week.*

SECOND TERM.

German: Joynes-Meissner's Grammar; Exercises from English into German; Joynes' Reader. *Four hours per week.*
History: English People. *Four hours per week.*
Mathematics: Plane Trigonometry; Use of Logarithm Tables. *Four hours per week.*
Oratory: Rhetoric; Themes; Elocution; Expression; Declamation. *Three hours per week.*

THIRD TERM.

German: Schiller's Der Neffe als Onkel; Hillern's Höher als die Kirche; Gerstäcker's Germelshausen; Review of Grammar, partly written, partly oral, (in German). *Four hours per week.*
History: English People. *Three hours per week.*
Mathematics: Spherical Trigonometry, (eight weeks); Analytical Geometry. *Four hours per week.*
Natural Science: Botany. *Three hours per week.*
Oratory: Rhetoric; Themes; Elocution; Expression; Declamation. *Two hours per week.*

SOPHOMORE YEAR.

FIRST TERM.

German: Schiller's Maria Stuart; Harris' and Stein's Selections for German Composition; Dictation. *Four hours per week.*
Literature: British and American Authors. *Four hours per week.*
Mathematics: Analytical Geometry, completed. *Three hours per week.*
Oratory: Themes; Philosophy of Style; Elocution. *Two hours per week.*
Physical Science: Chemistry, non-metallic elements; Laboratory Practice. *Six hours per week.*
One lecture and one recitation per week.

Studies are elective from this point, and each four hours per week, except the Chemistry. See page 25.

SECOND TERM.

German: Hoffmann's Historische Erzählungen; Schiller's Ballads; German Composition; History of German Literature.
Literature: History of English Literature.
Mathematics: Differential Calculus.
Natural Science: Mineralogy and Geology.
Oratory: Themes; Vocal Physiology; Expression; Lectures.
Physical Science: Chemistry, metallic elements; Laboratory Practice with blow-pipe analysis. *Six hours per week.*
Students report to class on special topics. *Two hours per week.*

THIRD TERM.

German: Sesenheim (Göthe's Dichtung und Wahrheit); Göthe's Hermann and Dorothea; German Composition; History of German Literature.
Literature: History of English Literature.

Mathematics: Integral Calculus; Surveying, with field practice.
Full term's work in each subject.
Natural Science: Vegetable Histology and Physiology. Use of the
Microscope.
Oratory: Themes; Bell's Visible Speech; Extemporaneous Speaking;
Sources of Power in Oratory.
Physical Science: Chemistry, qualitative analysis.
Eight hours per week.

JUNIOR YEAR.

FIRST TERM.

German: Schiller's Wallenstein; German Essays and Letters; Reading at Sight; History of German Literature.
Logic: Deductive and Inductive.
Natural Science: Invertebrate Zoology.
Philology: Science and Philosophy of Language; Exercises.
Physical Science: 1. Chemistry, quantitative analysis; gravimetric and volumetric. *Eight hours per week.*
2. Mechanics and Pneumatics; Recitations and lectures.
Political Science: Principles of Political Economy; Ely's Outlines of Political Economics.

SECOND TERM.

German: Göthe's Faust, Part I; Boyeson's Göthe and Schiller; History of German Literature; Review of History of Literature, (written in German).
Literature: American Authors.
Oratory: Themes; Voice Culture; Models; Oratorical and Dramatic Delivery.
Philosophy: Psychology; Study of Physiological Theories; James' Psychology.
Physical Science: 1. Chemistry, quantitative analysis. Technical work. Fire Assaying of gold, silver and lead ores. *Eight hours per week.*
2. Sound and Heat; Recitations, lectures and laboratory practice.

THIRD TERM.

Astronomy: Descriptive; illustrated by the apparatus of the Observatory.
German: Göthe's Faust, Part I, finished; History of German Literature; Review of History of Literature, (written in German).
Oratory: Orations; Lectures; Oratorical and Dramatic Delivery.
Philosophy: Psychology; Study of Physiological Theories; James' Psychology.
Physical Science: 1. Chemistry, organic; Recitations with laboratory work. *Eight hours per week.*
2. Light and Photography; Recitations, lectures and laboratory practice. The months of May and June are devoted to the practice of Photography.

SENIOR YEAR.

FIRST TERM.

Astronomy: Practical and Spherical; Observatory Work.
French: Edgren's Grammar; Exercises from English into French; Super's Reader.
Law: Constitutional.
Literature: Chaucer, Spenser and Milton.
Oratory: Philosophy of Expression; Oratorical and Dramatic Delivery.
Philosophy: Natural Theology; Schurman's Belief in God.
Physical Science: Electricity and Magnetism; Recitations, lectures and laboratory practice with frequent visits to various electrical plants.

SECOND TERM.

Astronomy: Practical and Spherical; Observatory Work.
French: Review of Grammar, partly written and partly oral; Special drill on irregular verbs; Scribe's *Le Verre d'Eau*; Musset's *Pierre et Camille*; Berthet's *Le Pacte de Famine*.
Law: Municipal.
Literature: History of English Dramatic Literature.
Natural Science: Comparative Anatomy and Physiology.
Philosophy: Ethics; Study of Ethical Theories; Bowne's Ethics; Discussions; Martineau's Types of Ethical Theory.

THIRD TERM.

Astronomy: Practical and Spherical; Observatory Work.
French: Racine's *Phèdre*; Molière's *Le Misanthrope*.
Law: International.
Literature: Shakespeare.
Natural Science: Geology and Palæontology.
Philosophy: Ethics; Study of Ethical Theories; Bowne's Ethics; Discussions; Martineau's Types of Ethical Theories.

GENERAL DESCRIPTION

... OF THE ...

INSTRUCTION

... IN THE ...

SEVERAL DEPARTMENTS.

MENTAL AND MORAL PHILOSOPHY, AND NATURAL THEOLOGY.

PRESIDENT CONE.

Psychology, which is an elective for the Juniors in the second and third terms, is taught by text-books and oral instruction. Theses on important topics in the science are required of students pursuing the study and are subjected to criticism and discussion in the class. The study and discussion of questions of metaphysics proper, constitute the larger part of the work during the latter half of the third term.

Moral Philosophy is an elective in the last two terms of the Senior year, and embraces theoretical and practical ethics, and discussions of the origin of ethical ideas in the light of modern philosophy.

Natural Theology, which is an elective for the Seniors in the first term, embraces a study of the evidences of Theism and a critical examination of the arguments from cosmology, teleology, etc., with a view of the theories of modern speculation.

POLITICAL SCIENCE.

PRESIDENT CONE.

Political Economy is an elective for the Juniors in the first term, and is taught so as to present the history of the science and lead to a thorough comprehension of established principles. The reading of the works of the masters of the science is called for in the preparation of the theses required of the class.

PHYSICAL SCIENCE.

PROF. C. M. KNIGHT, A. M.
W. L. HARDIN, B. S., INSTRUCTOR.

Chemistry.—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 every statement shall be illustrated and confirmed by experiment; each student is further required to manufacture one or more salts under each basic element, and to explain fully the process and principles involved.

A course in blow-pipe analysis includes the test for elements as they occur in ores of greatest economic value. The instruction in organic chemistry consists of recitations, lectures and laboratory work. The lectures discuss the theories and present the latest researches; work in the laboratory comprises proximate analysis and the preparations, by synthesis, of organic products.

The instruction in analytical chemistry extends through the larger part of the Junior year; the course, including qualitative and quantitative analysis, involves such a variety of methods and processes as will enable the student to undertake any chemical analysis.

Industrial chemistry is taught by lectures and laboratory practice. Whenever practicable, 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 taught to see the true economy of production. Illustrative of the topics studied, visits are made to various manufacturing establishments, and an opportunity given to see manufacturing operations in actual working.

Physics.—The course includes recitations, lectures and laboratory practice in Optics, Heat, Acoustics and Electricity. A simple exposition of the experimental facts of these branches is first undertaken, followed by theoretical discussions to show the connection of their principles, and to bring out their common relation to the doctrine of the conservation of energy. Lectures present the recent advances of Physical Science, and point out the practical application of its principles. The subject of Photography, including its various applications in the sciences and arts, is taught by practical work.

Students are required to become familiar with the projecting lantern as an instrument of demonstration in the lecture room, and, in general, to perform with their own hands all experimental illustration. The apparatus for illustrating general principles is being supplemented by instruments for making accurate measurements.

Those wishing to take Physics must take the Mechanics of the Junior year.

MODERN LANGUAGES.

PROF. C. F. KOLBE, A. M., PH. D.

The German and French languages, the leading ones among the Modern Languages in Buchtel College, are taught with a view to the greatest practical results. The German language, especially, receives full recognition in Buchtel College. It is on an equal footing with other studies in the results obtained from a several years' course. It is taken up, as a new study, in the Freshman Class (except by students of the Classical Course, who may begin the study of German in the Junior year), and is made obligatory during this year, as well as the first term of the Sophomore

year. It may be continued during the remainder of the Sophomore and the entire Junior year.

Thus a three years' course with requirements corresponding to a systematic progress, guarantees to the faithful student an accurate and comprehensive knowledge, furnishing the key to the vast field of literature vouchsafed by this language.

Beyond this, however, the course of instruction recognizes 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 a living language in the mouth of the student. To obtain this end, in its widest possible range, the German language is spoken, by the teacher and student, in the classroom, a practice which is continued through the entire course. The student who gradually becomes accustomed to the sounds of the foreign language soon learns to use and express himself in the same.

Buchtel College, then, uses the German language as the medium of teaching German, and it can be said truthfully that, during the many years of its use, satisfactory results in general, and surprising results in very many cases, have been obtained by this well-tested method. With this experience of past years, this department is prepared to extend its requirements with each succeeding year, securing thereby to the student increased benefits.

The French language is studied during the Senior year, at a time when the discipline of years of study of other languages enables the student of a more ripened judgment and increased ability of observation to rapidly acquire and apply an extended knowledge of this language, far in advance of requirements generally resulting from the study of this language, for a similar period, under ordinary circumstances.

GREEK.

PROF. W. D. SHIPMAN, A. M.

After a thorough course of preparation, we not only aim to acquire a good knowledge of the Greek language, and to profit by the disciplinary drill attendant upon the study of its syntax, but we undertake to read the masterpieces of Ancient Greece, from a literary point of view. This includes a study of the different kinds of composition; written translations of select passages, both in prose and in verse; a consideration of the plan and outline of all works studied, even though they are read but in part; written sketches of the life, the style, and the works of each author taken up; and a study of the logical and rhetorical features which we are constantly meeting.

The various authors read may be seen by consulting the Course of Study. This will be adhered to for the most part, though occasional deviations may be made.

Throughout the College Course—which includes, by reason of the elective system, the whole four years—some time is regularly devoted to related subjects, as follows: During the Freshman year attention is given to epic peculiarities, the Homeric question, and the nature and leading forms of history. During the Sophomore year we give especial attention to the origin and course of the drama. In connection with the Junior work, we study during the first term the principles of oratory; in the second, the peculiar character of Attic comedy; and in connection with the New Testament we give attention to the peculiarities of dialect, the most important manuscripts and versions, and the principles of textual criticism. During the Senior year, in the first term we consider the forms and phases of lyric poetry; in connection with the study of Plato, the general character and development of philosophic thought among the Greeks; while the third term's special subject depends on what author is selected for class work.

A manual of Greek Literature is taken up during the Freshman and Sophomore years, and a systematic general

view of its course and character obtained. The work is supplemented by library references and by lectures.

In connection with Homer, the drama, and the lyric poets, the varieties of scansion are studied.

Attention is given throughout the course to the derivation of words; and a constant effort is made to duly appreciate the life and thought of the ancient Greek people.

PHILOLOGICAL SCIENCE.

PROF. W. D. SHIPMAN, A. M.

In the first term of the Junior year, an elective in Philology is offered in all courses. The subject is taken up and treated from a scientific rather than from a literary point of view.

The idea is to make students familiar not only with a wide range of interesting and important facts, but also with the leading doctrines concerning the nature and origin of language, the causes that have brought it to its present forms, and the forces now operative in its modification.

The special text-books used are Whitney's *Life and Growth of Language*, and Skeat's *Concise Etymological Dictionary*. The regular recitation work is supplemented by class lectures, by the enlarged treatment of particular subjects, preparing summaries of important articles, and the like, by the aid of books of reference, encyclopædias, and philological periodicals, with which the College library is well supplied. We aim not merely to increase knowledge by learning, but also by employing the inductive method, to establish scientific habits, and to train and strengthen the mental powers.

Under certain circumstances the work in Philology may be continued one or two terms longer.

LATIN.

PROF. CHAS. C. BATES, A. M.

The course in Latin, embracing a period of seven years, three in the Preparatory and four in the Collegiate Depart-

ment, is designed to furnish the student with a thorough knowledge of the grammatical and rhetorical features of the Latin language, and also acquaint him with the principal productions of the foremost prose and poetical writers in the various periods of Roman Literature.

The list of authors whose works are studied comprises Cæsar, Cicero, Vergil, Livy, Horace, Tacitus, Terence, Plautus, Juvenal, Persius, Pliny, Seneca and Lucretius.

These are supplemented by Latin Prose Composition, Roman History and Antiquities, Roman Literature, and the Elements of Philology.

The foundation is laid by the requisite drill upon grammatical forms, syntactical principles and idiomatic expressions, while careful comparisons are instituted between the literal and the smooth rendition of passages.

At an early period the student is thereby enabled to intelligently appropriate the truths inculcated by the author, and appreciate the beauties of the language employed.

Two methods of pronunciation, the English and the Roman, are used, but the preference is given to the latter.

In poetry, familiarity with prosody and scansion is acquired.

Translation at sight constitutes a prominent feature in the work of advanced classes.

Throughout the course considerable attention is devoted to English derivation, a subject absolutely essential to an adequate comprehension of scientific terminology.

It is believed that by the plan adopted the interests of culture and utility are equally subserved.

NATURAL SCIENCE.

PROF. E. W. CLAYPOLE, B. A., D. SC., (LOND.), F. G. SS. L. E. & A.

This department includes the subjects of Botany, Zoology, Geology and Palæontology, Anatomy and Physiology. Most of these subjects are studied during two terms, the former of which is devoted to the elementary

portions, and the latter to work of a rather more difficult nature.

GEOLOGY.—In the Sophomore year the elements of this science are studied. Students learn to recognize by observation and by simple tests the common minerals. They become acquainted with the rudiments of geological structure, the art of constructing geological maps and sections, and the principles of geological work in the laboratory. The season precludes more than a slight amount of field-practice. A series of lectures on the topics successively taken up and addresses by the members of the class, chiefly on the economic side of the science, are important parts of this course. In the Senior year the higher branches of the subject are followed up. The lectures deal with the larger problems of geology and cosmogony, and the addresses are expected to show evidence of wider reading and more mature thought. A small amount of actual survey work in the field is undertaken and a few geological excursions are usually made to local points of interest.

ANATOMY.—The Class in this subject affords Senior students an opportunity of correlating their previous biological studies by the comparison of the structure of different animals, especially among the vertebrata. A considerable amount of dissection accompanies the other work. The general course of development of the Animal Kingdom as revealed by modern investigation forms the central truth around which the work and the study in this subject are grouped. The sanitary and physiological bearings of the science receive attention in the lectures and addresses.

BIOLOGY.—The Junior term devoted to the study of Invertebrate Zoology enables those students who are fitted by their previous preparation for the task to enter on the systematic study of the Invertebrata. The descending order is followed, beginning with the Arthropods and gradually going down with the Protozoa. The Compound Microscope is the essential instrument of investigation here.

The corresponding class in every alternate year is devoted to Cryptogamic Botany, and the same method and order are followed. The plan adopted in this subject enables special students who so desire to take both Zoology and Botany in different years.

HISTOLOGY AND PHYSIOLOGY.—The spring class in Animal Histology and Physiology is devoted almost entirely to the study of the elementary tissues of the Vertebrata and the organs into which they enter. In this work the students gain an insight into the minute structure of animals and learn the use of the Compound Microscope—an indispensable instrument of investigation in all zoological and botanical problems above the very simplest. The preparation of slides, and practice in the various methods of microscopical technique, some study of the construction of the Microscope and the nature and functions of its different parts, with lectures and addresses, are the principal features in this course.

The corresponding term in alternate years in Vegetable Histology and Physiology covers a similar field on the other side of the Biological Kingdom. *Mutatis mutandis*, what was given in the preceding paragraph applies equally here.

The two elementary classes in the Freshman year in Zoology and Botany introduce the students into the methods of modern scientific work and the processes of the Biological Laboratory. They here learn the alphabet of the science with which all should be acquainted, the general nature of animals and plants. In practice, these for the most part consist of the more easily obtained and conspicuous insects and mollusks and the phanerogams. They also become familiar with the principles of scientific nomenclature and terminology and the art of seeing and of representing what they see.

Lectures on the principal topics and others connected with them form an essential part of the work, and in all classes above the grade of Freshmen addresses from the students themselves constitute an important element.

Especial stress is laid on drawing as a means of seeing, and considerable facility and skill are obtained by many of those students who faithfully follow up the scientific course.

Little or no text-book work is done, but many valuable books are kept in the Departmental Library for reference by students. These are specially valuable in the composition of the theses now required for graduation. In this part of the scientific course a valuable opportunity is afforded to the scientific students for real investigation—a kind of work scarcely possible in the ordinary classes.

Means of instruction in this department are yearly improving, and a considerable addition to the microscopical outfit has been made during the past year by the liberality of the trustees.

The collections, both general and local, have been also increased and improved for teaching purposes. Especially during the past year the ornithological collection has been carefully examined, and the specimens, when worth the labor, have been cleaned and repaired. Many skins, chiefly of our local avifauna, have been added to the collection, and a substantial improvement has thus been made. Much material that has been accumulating for some years past has also been cleared, studied, and placed in the Museum.

By these various means is afforded the opportunity of becoming acquainted with the general scope of Natural Science and the methods of scientific work, and also, if desired, of carrying on minute investigation in a limited portion of this great and yearly widening field.

MATHEMATICS AND ASTRONOMY.

PROF. H. V. EGBERT, A. M.

ADJUNCT PROF. J. W. SLEPPEY, A. M.

The pure mathematics of the course are intended partly as a purely disciplinary mental drill, and the work is done not with a view of cultivating the memory but of developing the powers of careful, independent reasoning and original and exact thought. At the same time the student is led to

do his work in a practical way so that his mathematics becomes a ready and efficient tool in the pursuit of other subjects where it is applied. The details of the course are given below :

FRESHMAN CLASS.

FIRST TERM.—Algebra (Wentworth), including simultaneous Quadratic Equations, Properties of Quadratics, Ratio and Proportion, Progressions, Binomial Theorem, Logarithms and Series.

SECOND TERM.—Plane Trigonometry (Wentworth).

THIRD TERM.—Spherical Trigonometry (Wentworth). In connection with both plane and spherical trigonometry special attention will be given to practical operations in logarithmic calculations.

Analytic Geometry (Wentworth). This subject is taken up after the Spherical Trigonometry, occupies the last third of the term and will be continued in the following term.

SOPHOMORE CLASS.

FIRST TERM.—Analytic Geometry (Wentworth)—concluded.

SECOND TERM.—Calculus—Differential (Osborne).

THIRD TERM.—Calculus—Integral (Osborne).

Surveying (Wentworth). Use of compass, transit and level. Practical problems are assigned the class which require the use of the various instruments in land surveying, leveling for street grades, sewers, railroads, etc. Each student makes the necessary computations and constructs plats from his field notes.

JUNIOR CLASS.

THIRD TERM.—Descriptive Astronomy (Young). For the pursuit of this subject the Mathematics up to the elective point are required.

SENIOR CLASS.

FIRST TERM.—Spherical and Practical Astronomy (Doolittle). The celestial sphere, transformation of coordinates, parallax, refraction, time and the transit instrument, including the discussion and determination of its constants. Determination of time and other problems will be assigned to the student, which he will work out for himself in the observatory.

SECOND TERM.—Spherical and Practical Astronomy (Doolittle). The zenith telescope, its theory and the method of determining latitude. Least squares, with application to the reduction of observations. Observatory work.

THIRD TERM.—Spherical and Practical Astronomy (Doolittle). The sextant, its theory and methods of its use in determining latitude and time. Observatory work.

In the work in Practical Astronomy the methods used will be those employed in the large observatories.

During the first and second terms of the Senior year some line of higher mathematics, pure or applied, may be taught under certain circumstances.

RHETORIC AND ORATORY.

PROF. L. A. BUTTERFIELD, A. M., PH. D.

The aim of this department is to provide such opportunities as will enable the faithful student to furnish himself with an excellent outfit and an invaluable preparation for life's work.

With the exception of a single term, the work is continuous from matriculation to the second term of the Senior year. The instruction is of the most practical kind, strengthening the pupil's individuality at every step and giving him constantly increasing control over his audience and over himself. It embraces the following subjects:

I. PHYSICAL CULTURE. By this we mean the cultivation and refinement of the entire body by training it to express the emotions and purposes of the soul. The daily

exercises develop every muscle in the body, give tone to the nervous system and vital organs, cultivate grace, and render every part so responsive to the mind that mechanical gesture becomes an impossibility. To neglect such a course of training is to live beneath our privilege and close many avenues of usefulness.

The Emerson System of Physical Culture is made the basis of this work.

II. VOICE CULTURE. The first and most important step in voice culture is to secure correct physical and mental conditions. Elasticity of tone and freedom from harsh and impure qualities may be attained by obedience to natural laws. A free, natural and impressionable voice is secured by careful training. The voice is most perfectly developed by proper use in expressing one's thoughts and feelings.

III. RHETORIC. In teaching the art of writing, mere book knowledge is of little service. The pupil is first taught to observe men and things, then to record the result of his observation. Skill in expressing one's thoughts in writing is the constant aim. Special attention is given to the requisites of a good style.

IV. ORATORY. Delivery is taught exclusively from the mind side. All imitative and mechanical methods are discarded and the pupil is trained from the beginning to a self-reliant use of his own powers. Oratory being essentially a social matter, the class naturally constitutes an audience for each speaker in turn. Further opportunities for public speaking are afforded in the Oratorical and Ashton prize contests.

ENGLISH LITERATURE.

PROF. ELLEN E. GARRIGUES, A. M.

In the first term of the Sophomore year in the Scientific course British and American Oratory is taught, by means of lectures and readings from the principal orators. Beginning with the second term of the Sophomore year, the work is elective in all courses. In the second and third terms of

the Sophomore year, the History of English Literature is studied. Representative works of the best authors are read critically in class. The life of the author and the history of his time are also made the subject of study. In the second term of the Junior year, the History of American Literature is taught by means of lectures and readings from our best American authors.

No literature text-books are used except the works of the authors themselves, which, as far as possible, are put into the hands of the students. The library is well supplied with the best works upon biography and criticism, and constant reference is made to these authorities. A course of reading, to accompany this study, is marked out by means of library topic books.

In the Senior year, the Classical authors of the English language, Chaucer, Milton and Spenser, are studied. The first term is given for the most part to a critical study of some representative work or works of each of these authors; the second, to a study of the English Drama from the earliest forms down to modern times. During the last term Shakespeare's art and several of his plays are critically studied.

The aim throughout the course in English Literature is to foster a taste for good reading, to direct students what to read and how to read. Constant and thorough use of the College library is urged upon all students pursuing this course.

LOGIC.

ELLEN E. GARRIGUES, A. M., INSTRUCTOR.

Logic is an elective study in all courses in the first term of the Junior year. The text-books used are Fowler's Deductive Logic and Fowler's Inductive Logic.

The work is supplemented by practical exercises, numerous examples of the processes of thought, the criticism of arguments, practice in definition, and illustrative work from other standard authorities upon the subject.

HISTORY.

ELLEN E. GARRIGUES, A. M., INSTRUCTOR.

Throughout the Freshman year, Scientific Course, lectures upon the growth, development and character of the English people, from the earliest times to our own day, are given. The dependence of certain changes in English life and history upon the great European movements, such as the Crusades, Renaissance, Reformation, French Revolution, etc., is made clear by supplementary lectures on these topics. The lectures form but the outline of recitation, for which preparation is made by free and constant use of the College library, containing the works of such standard historical authorities as Green, Macaulay, Knight, Creasy, Stubbs, Froude, Guizot, etc.

Particular attention is given to the social development and constitutional growth of the English people as the basis of our own character and government.

The aim is to induce students to read for themselves, and to awaken a real and vivid interest in English Life, Letters and History.

LAW.

CHARLES R. GRANT, A. B., INSTRUCTOR.

It is the design of this department to furnish instruction in the elements of Jurisprudence and Civil Government.

The Fall Term is occupied in studying the principles of American Constitutional Law, with frequent reference to the Constitutions of European Governments.

The Winter Term is devoted to the study of Municipal Law. This will include the law of the Domestic Relations, Property, Contracts, Crimes, and Procedure in the Courts.

International Law is the subject for discussion in the Spring Term. This will include not only the rules by which the intercourse between nations is governed, but the obligations which one nation or state is under, at times, to enforce the laws of another.

No attempt will be made to fit men for legal practice; but it is possible for students, who pursue the law in this department diligently throughout the year, to be admitted to the Bar after one year's additional study in a Law School.

PREPARATORY DEPARTMENT.

GENERAL INFORMATION.

In connection with the College proper, the Trustees have established a Preparatory School, in which students are fitted for the college classes and for teaching. There are three courses of study of three years each, corresponding to the courses of the College, and a Normal Course of two years.

This department is under the same general administration as the other departments of the College and the immediate supervision of the Principal. All are received as coming for the purpose of doing the best they can for themselves. As students do their studying in their own rooms, teachers do not assume responsibility over those who, through want of self-control, or for any other reason, fail to prepare their lessons. Self-government is the central idea.

Students in High Schools and Academies, who intend to take a College Course, are recommended to spend the last preparatory year in this department, on account of the better adjustment of the studies to the regular college work.

Original literary exercises are required of all students in this department above the first term of the middle year in connection with the reading of the books named on page 27.

Students will be examined and assigned to classes for which they are qualified. Those who present satisfactory grades from schools of good standing will be admitted without examination, subject to the condition that they sustain themselves in their work. To enter the Junior Class of this department, applicants will be examined in Arithmetic through Percentage, Grammar as far as Syntax, and Descriptive Geography.

Those desiring to enter in advance of this point will be examined in the studies of the lower classes.

During the course of study written reviews and unannounced examinations or tests are held at the discretion of the teachers, and announced examinations are required in case of absence or failure.

Students sufficiently advanced in other studies, after completing the Latin of the Junior year, may enter both the Middle and the Senior classes, thus completing the three years of preparatory Latin in two years.

A special class in Latin for rapid work will be formed every Winter Term, to complete in two terms the regular work of the Junior year.

Students sufficiently advanced in other studies may complete the preparatory Greek in one year. To accommodate such students, a special class for rapid work will be formed at the beginning of each college year.

Provision is made for instruction in English studies on the part of those not pursuing a regular course.

Special classes in Book-keeping, U. S. History, Arithmetic, Grammar, Analysis, and Physiology will be formed when a sufficient number of students desire them.

FACULTY.

REV. ORELLO CONE, D. D.
PRESIDENT.

JENNIE GIFFORD, A. M.,
Principal of Preparatory Department, and Teacher of Science.

SAMUEL FINDLEY, A. M., PH. D.
Principal of Normal Department.

MARY E. STOCKMAN, L. A.,
Teacher of English and Latin.

JOHN W. SLEPPEY, A. M.,
Teacher of Mathematics, and Secretary.

MARTHA A. BORTLE,
Teacher of English and Rhetorical Work.

EDWIN L. FINDLEY, A. B.,
Teacher of Greek and Latin.

PREPARATORY COURSES OF STUDY.

JUNIOR CLASS.

CLASSICAL.

FIRST TERM.

English.— { Composition [once a week].
 { Advanced Grammar.

Latin.—Grammar and Lessons.

Mathematics.—Percentage Arithmetic.

SECOND TERM.

English.— { Composition.
 { Advanced Analysis.

Latin.—Grammar and Lessons.

History.—United States.

THIRD TERM.

English.—Elementary Rhetoric.

Mathematics.—Completing Arithmetic.

Latin.—Grammar and Cæsar.

PHILOSOPHICAL.

FIRST TERM.

English.— { Composition [once a week].
 { Advanced Grammar.

Latin.—Grammar and Lessons.

Mathematics.—Percentage Arithmetic.

SECOND TERM.

English.— { Composition.
 { Advanced Analysis.

Latin.—Grammar and Lessons.

History.—United States.

THIRD TERM.

English.—Elementary Rhetoric.

Political Science.—Civil Government.

Latin.—Grammar and Cæsar.

SCIENTIFIC.

FIRST TERM.

English.— { Composition [once a week].
 { Advanced Grammar.

Latin.—Grammar and Lessons.

Mathematics.—Percentage Arithmetic.

SECOND TERM.

English.— { Composition.
 { Advanced Analysis.

Latin.—Grammar and Lessons.

History.—United States.

THIRD TERM.

English.—Elementary Rhetoric.

Political Science.—Civil Government.

Latin.—Grammar and Cæsar.

MIDDLE CLASS.

CLASSICAL.

FIRST TERM.

Drawing.—Free-Hand [twice a week].
English.—Elementary Rhetoric.
Latin.—Cæsar, Grammar; Prose Composition.
Mathematics.—Algebra.

SECOND TERM.

Drawing.—Free-Hand [twice a week].
Greek.—Grammar and Lessons.
Latin.—Cicero, Grammar; Prose Composition.
Mathematics.—Algebra.

THIRD TERM.

Greek.—Grammar and Lessons.
Latin.—Cicero, Grammar; Prose Composition.
Mathematics.—Algebra.

PHILOSOPHICAL.

FIRST TERM.

Drawing.—Free-Hand [twice a week].
English.—Elementary Rhetoric.
Latin.—Cæsar, Grammar; Prose Composition.
Mathematics.—Algebra.

SECOND TERM.

Drawing.—Free-Hand [twice a week].
Natural Science.—Physiology.
Latin.—Cicero, Grammar; Prose Composition.
Mathematics.—Algebra.

THIRD TERM.

Mathematics.—Completing Arithmetic.
Latin.—Cicero, Grammar; Prose Composition.
Mathematics.—Algebra.

SCIENTIFIC.

FIRST TERM.

Drawing.—Free-Hand [twice a week].
English.—Elementary Rhetoric.
Latin.—Cæsar, Grammar; Prose Composition.
Mathematics.—Algebra.

SECOND TERM.

Drawing.—Free-Hand [twice a week].
Natural Science.—Physiology.
Latin.—Cicero, Grammar; Prose Composition.
Mathematics.—Algebra.

THIRD TERM.

Mathematics.—Completing Arithmetic.
Latin.—Cicero, Grammar; Prose Composition.
Mathematics.—Algebra.

SENIOR CLASS.

CLASSICAL.

FIRST TERM.

Greek.—Grammar, Anabasis; Greek History.
Latin.—Vergil, Grammar; Prose Composition;
 Roman History.
Mathematics.—Algebra and Plane Geometry.

SECOND TERM.

Greek.—Anabasis; Prose Composition.
Latin.—Vergil, Grammar; Prose Composition.
Mathematics.—Plane Geometry.

THIRD TERM.

Greek.—Anabasis; Prose Composition.
Latin.—Vergil; Prose Composition.
Mathematics.—Solid Geometry.

PHILOSOPHICAL.

FIRST TERM.

Physical Science.—Physical Geography.
Latin.—Vergil, Grammar; Prose Composition;
 Roman History.
Mathematics.—Algebra and Plane Geometry.

SECOND TERM.

History.—Ancient History.
Latin.—Vergil, Grammar; Prose Composition.
Mathematics.—Plane Geometry.

THIRD TERM.

History.—Mediæval and Modern History.
Latin.—Vergil; Prose Composition.
Mathematics.—Solid Geometry.

SCIENTIFIC.

FIRST TERM.

Physical Science.—Physical Geography.
Physical Science.—Natural Philosophy.

Mathematics.—Algebra and Plane Geometry.

SECOND TERM.

History.—Ancient History.
Physical Science.—Natural Philosophy.
Mathematics.—Plane Geometry.

THIRD TERM.

History.—Mediæval and Modern History.
Physical Science.—Natural Philosophy.
Mathematics.—Solid Geometry.

NORMAL COURSE.

FIRST YEAR.	SECOND YEAR.
<p style="text-align: center;">FALL TERM.</p> <p>Advanced Arithmetic. English { Advanced Grammar. { Composition [once a week]. Physiology. Latin (optional).</p> <p style="text-align: center;">WINTER TERM.</p> <p>Advanced Arithmetic. English { Advanced Analysis. { Composition [once a week]. U. S. History Latin (optional).</p> <p style="text-align: center;">SPRING TERM.</p> <p>Rhetoric. Physical Geography. Civil Government. Latin (optional).</p>	<p style="text-align: center;">FALL TERM.</p> <p>Elements of Pedagogy. Algebra. Natural Philosophy. Drawing [twice a week]. Latin (optional).</p> <p style="text-align: center;">WINTER TERM.</p> <p>Elements of Pedagogy. Algebra. Ancient History. Drawing [twice a week]. Latin (optional).</p> <p style="text-align: center;">SPRING TERM.</p> <p>Elements of Pedagogy. Algebra. Review of Arithmetic and Grammar. Mediæval and Modern History. Latin (optional).</p>

All are advised to pursue the study of Latin as indicated above.

Those who complete the course will receive a certificate to that effect.

High School graduates may complete the course in one year, taking the course in Pedagogy, the Review of Grammar and Arithmetic, and such other studies as they may elect, in either the Preparatory or College Department.

Students should be well prepared in Common Branches to complete the course in the prescribed time.

Normal students not having time for the full course may select such studies as will best serve their purpose. For an understanding of the opportunities thus opened, see the various courses of study and statements on pages 28 and 56.

STUDENTS.

COLLEGIATE DEPARTMENT.

GRADUATE STUDENTS.

Allen, Cora Adelle.....B. PH. (Hiram)----Akron.
Green, Isabelle Moore.....A. B. (Buchtel) --Akron.
Holcomb, Orrin GrantB. S. (Buchtel) --Cedar Rapids, Ia.
McLean, Johnson Brown.....B. S. (Buchtel) --W. Alexandria.
Moore, John Clark.....B. PH. (Buchtel) --Akron.

Graduate Students, 5.

SENIOR CLASS.

COURSE.

Bargar, Margaret Elizabeth.....S.....Tracy.
Bateson, Carolynne Elinore.....C.....Kenton.
Clark, Harry Worthy.....PH.....Chardon.
Dean, Eva Ellen.....S.....Sioux City, Ia.
Dean, Origen Stone.....S.....Sioux City, Ia.
Findley, Samuel Emerson.....C.....Akron.
Herriff, Amy Irene.....S.....Kent.
Hollenbeck, Harland H.....C.....Chardon.
James, Joseph Hidy.....S.....Washington C. H.
Johnston, Lizzie May.....S.....Tailmadge.
Mathew, Taca.....C.....Port William.
Musson, Estelle Frances.....PH.....Mogadore.
Schumann, Neva Grace.....S.....Kent.
Seidman, Arthur.....C.....Akron.
Simpson, John Hayward.....PH.....Attica.
Snyder, Harry Lee.....S.....Peru.
Sorrick, Cora Jennie.....S.....Akron.
Stutzman, Ada Mary.....S.....Akron.
Taber, Gertrude.....PH.....Castile, N. Y.
Teeple, Arthur Rowe.....S.....Akron.
Thomas, John Lewis.....S.....Akron.
Webster, Carlos Green.....S.....Norwalk.
West, Mary Zubia.....S.....Marietta.

Seniors, 23.

JUNIOR CLASS.

COURSE.

Brophy, Elizabeth Mary	-----C-----	Suspens'n Bridge, N.Y.
Druley, Bertha Matella	-----C-----	Stafford, Conn.
Hardin, Eli Boyer	-----S-----	South Warsaw.
Harpham, Emily Congreve	-----C-----	Akron.
Hibbard, Allen Hale	-----PH-----	Akron.
Hovey, Clark Samuel	-----C-----	Fowler's Mills.
James, Mary Louisa	-----PH-----	Washington C. H.
*Jones, Minnie May	-----S-----	Jeffersonville.
Kennedy, Herbert Welles	-----S-----	North Olmstead.
*Parker, Lulu Elizabeth	-----PH-----	Akron.
Pierce, Hattie Gertrude	-----PH-----	Cedar Falls, Ia.
Putt, Wilson Arbingast	-----S-----	Akron.
Stockman, Avah Maud	-----PH-----	Aspen, Col.
*Thursby, Dennis David	-----S-----	Inland.
Underwood, Chambers	-----S-----	Danville.

Juniors, 15.

SOPHOMORE CLASS.

COURSE.

Andrews, Mary Elizabeth	-----PH-----	Hamilton.
Armstrong, Arabella Ruth	-----PH-----	Akron.
Bell, Carrie	-----PH-----	Clifton Springs, N.Y.
Canfield, Leander Randall	-----C-----	Chardon.
Couden, William Chase	-----C-----	Concord, Mich.
*Crubaugh, Pearl	-----PH-----	Akron.
Foltz, Esgar Bowen	-----C-----	Akron.
Grable, Bessie Mabel	-----PH-----	Inland.
Inman, Marcus Tullius	-----C-----	Columbiana.
James, Margaret Trylla	-----C-----	Washington C. H.
Laughead, Katherine	-----C-----	Middleport.
*Loudenback, Henry Carlton	-----S-----	Urbana.
*Martin, Ernest Whitney	-----C-----	Medina.
*McKnight, Alvin Charles	-----S-----	N. Springfield.
Mumford, Eben	-----C-----	Alcony.
Newberry, Maude Ruth	-----C-----	Petoskey, Mich.
Petty, Charles Ellsworth	-----C-----	Akron.
Pfaff, Philippine Maria	-----PH-----	Whipple.
Rankin, George Thomas, Jr	-----PH-----	Akron.
Sorrick, Chloe	-----PH-----	Akron.
*Taylor, David Spencer	-----S-----	Albion, Ind.
*Van Orman, Hattie Ellis	-----PH-----	Akron.
*Whitehead, Bessie May	-----S-----	Chicago, Ill.
Willoughby, Mae	-----S-----	Canal Winchester.

*Not in full class standing.

Sophomores, 24.

FRESHMAN CLASS.

COURSE.

Alexander, Hannah Theresa	PH	Akron.
Bennett, Abby Elvira	S	Akron.
Borst, Beulah May	C	Akron.
Chamberlain, Blanche Sophronia	C	Akron.
Cheshire, Margaretta	S	Covington, Ky.
Clifford, Raymond Alfred	S	Wadsworth.
Daugherty, John Edward	C	Akron.
Fish, Fred A.	S	Milan.
Fisher, Frank Talbot	S	Akron.
Foster, Arthur Lavara	C	Canton.
Hanscom, Austin Brewster	PH	Akron.
Johnson, Cora May	PH	Mt. Carmel.
Johnson, Kent Percival	PH	Kenton.
Loudenback, Maud Charlotte	PH	Urbana.
Lukesh, Edward Frank	S	Akron.
McColgan, Alzie May	PH	Cuyahoga Falls.
McIntosh, Irene Belle	S	Ravenna.
Moore, Jessie Lorinda	PH	Munson.
Rice, Thaddeus Waldo	S	Castalia.
Rogers, George Wait	C	Akron.
Smith, Corinna Ellen	C	Kelloggsville.
Stanley, Grace Cannon	S	Akron.
Stutzman, Grace	PH	Kent.
Taylor, Carl Barrett	C	Akron.
Taylor, Charles Clinton	S	Akron.
Taylor, John	C	Akron.
Thrasher, Halbert J.	S	Chardon.
Warner, Lydia Elmie	PH	Chardon.
Widdecombe, Blanche M.	PH	Kent.
Youtz, Amy	PH	Akron.

Freshmen, 30.

SPECIAL STUDENTS.

Bailey, Bessie Cora	Akron.
Baldwin, Lucene Rose	Norwalk.
Chapman, Cloyd Mason	Akron.
Crispin, Fannie Forrester	Akron.
Gardner, Mayme Mabel	Akron.
Green, William Adams	Akron.
Hamlin, Roy Horace	Akron.
Hollenbeck, Jessica Bell	Chardon.
McDerment, Elizabeth	Columbus.
Schnee, Robert Gilcrest	Cuyahoga Falls.

Wise, William Dennison Wadsworth.
 Woods, Richard Mitchell Akron.
 Yerrick, Harvey Leroy Akron.
 Special Students, 13.

PREPARATORY DEPARTMENT.

SENIOR CLASS.

COURSE.

Allen, Beulah Jeannette PH Akron.
 Baker, Mary Elizabeth C Johnson's Creek, N. Y.
 Barnes, Lucy Pearl S Milledgeville.
 Beach, Florence PH Aspinwall, Pa.
 Bock, Annie PH Akron.
 Butler, Walter Harold C Akron.
 Calmer, Harry Edgar S Joliet, Ill.
 Clifford, Addison Bertram C Wadsworth.
 Cole, William Marcus S Peru.
 Cranz, Clarence Henry S Akron.
 Dague, Metta Maud C Akron.
 DeWoody, Charles Frederick S Akron.
 Fisher, Elizabeth Clara S Akron.
 Gardner, James Anderson S Pittsburg, Pa.
 Gay, Nelson Merrick S Boston, Mass.
 Hardy, Maurice Luther PH Whipple.
 Holloway, Albert C. C Akron.
 Howard, Carlie Julia PH Miles Grove, Pa.
 Hoye, Mary Anna S Akron.
 Inman, Dora Belle PH Columbiana.
 Jackson, George Cleou C Akron.
 Kent, Mary Eliza S Akron.
 Libis, Lorenzo John C Akron.
 May, Louis Rudolph S Akron.
 Parsons, Harriette Day C Akron.
 Pell, James Blakly C Akron.
 Peterson, Stella Regina PH Akron.
 Pomerene, Melvin S Berlin.
 Raymond, Harry King S Akron.
 Schoeninger, Amelia C Akron.
 Scudder, Lavera May C Akron.
 Seiberling, Laird Henry S Kokomo, Ind.
 Sickman, William Forest C Marshallville.

Sims, Laura Anna Spencer -----C -----Akron.
 Spanton, Albert Isaac -----C -----Kensington.
 Thompson, James Guy -----C -----W. Farmington.
 Thompson, Walter Francis -----PH -----Akron.
 Vinton, John Alvin -----S -----Canal Dover.
 Whitehead, Frank Boosinger -----S -----Chicago, Ill.
 Wilkins, Margaret Loveria -----PH -----Cherry Grove, Pa.

MIDDLE CLASS.

COURSE.

Arnoux, Juliette Marthe -----C -----Barberton.
 Atterholt, Frank Marion, Jr. -----C -----Akron.
 Boger, Nathan Wilbert -----S -----Wadsworth.
 Carlson, Carl Alexius -----C -----Barberton.
 Crouse, George William -----C -----Akron.
 Eccles, David Gunn -----C -----Akron.
 Ewart, Aurie -----S -----Mogadore.
 Firey, Milton J. -----S -----Akron.
 Frank, John Clarence -----S -----Fairlawn.
 Gardner, Georgie Pearl -----C -----Akron.
 Hagelbarger, Carrie Rose -----PH -----Spring Mountain.
 Hawn, Acton Frank -----S -----Akron.
 Hill, Charles Sumner -----S -----Fletcher.
 Hill, Forrest Henry -----C -----Akron.
 Hoff, Helen Josephine -----C -----Akron.
 Johnston, Clara Belle -----C -----Tallmadge.
 Jones, William Ezra -----S -----Akron.
 Lackey, Hattie Elizabeth -----S -----Akron.
 Lease, Bernice -----S -----Fremont.
 Lukesh, Gustav Rudolf -----C -----Akron.
 Memmer, Ella Louisa -----PH -----Akron.
 Schnee, Ford Lincoln -----S -----Akron.
 Smith, Rowena Dell -----PH -----Blanchester.
 Spanton, William -----C -----Akron.
 Switzer, Ernest Victor -----S -----Akron.
 Thomas, Oliver Philip -----S -----Akron.
 Work, Frederic Willcox -----PH -----Akron.

JUNIOR CLASS.

Alden, Elizabeth Kingsbury -----Akron.
 Bennett, Buena Burr -----Akron.
 Brewster, May Helen -----Akron.
 Brown, Gerald Herbert -----Akron.

Caruss, Dolly Laurene	Barberton.
Daugherty, Elizabeth Edna	Akron.
Green, Bertha Florence	Independence.
Hardy, William Emmon	Akron.
Hawkins, Ruth	Fairlawn.
Hugill, Rhea Walpole	Akron.
Jackson, Annie Laurie	Akron.
Kepler, Nelson Eugene	Barberton.
Maloney, Cornelius	Akron.
Mitchell, Grace Letitia	Akron.
Mitchell, James Smith	Abington, Ind.
Oberholtzer, Albert Frank	Wadsworth.
Schuler, Louis	Akron.
Schultz, Catharine Bertha	Akron.
Underwood, Clarence	Zuck.
Warner, Bessie Ellen	Akron.
Welch, Edna Ethel	Krumroy.
Welch, Mattie Eula	Krumroy.

NORMAL DEPARTMENT.

SECOND YEAR.

Bright, Bernice	Kelloggsville.
Brown, Enid Elmyra	Fairlawn.
Dickerson, Myrtle N	Vester.
McCrum, Maud Elizabeth	Jamestown, Pa.
Motz, Carrie Eva	Akron.
Newbauer, Chloe May	Suffield.
Sheard, Joseph David	Akron.
Thursby, Bertha Blanche	Akron.
White, La Vantia	Norwalk.
Young, Cora Elizabeth	Cuyahoga Falls.

FIRST YEAR.

Botzum, Lillian Belle	Botzum.
Dodge, Mabel May	Twinsburgh.
Housley, Mary Elizabeth	Metz.
Housley, Virgil Monroe	Metz.
Humbert, William Henry	Inland.
Kelty, Hattie Louisa	Macedonia.
Kuder, Byrna Maud	Remson's Corners.

Penepacker, Maggie ----- Wadsworth.
 Rudgers, Lizzie Marie ----- Brecksville.
 Shook, Anna Christina ----- Reservoir.
 Theiss, Bertha ----- Akron.
 Vandersall, Clara Elma ----- Akron.
 Viers, Rose Irene ----- Hudson.
 Watters, Harvey Maurice ----- Akron.

UNCLASSIFIED STUDENTS.

Brown, Harry Hayes ----- Akron.
 Butterfield, Alice ----- Akron.
 Cable, Apphia Brown ----- Akron.
 Cameron, Wilford ----- Akron.
 Dickerson, Charles William ----- Vester.
 Diebolt, Henry William ----- Cleveland.
 Durr, Florence Cowles ----- Akron.
 Feldkamp, Charles Albert ----- Cincinnati.
 Giessen, Carl ----- Canton.
 Huston, Ford Weston ----- Akron.
 Johnson, Arthur ----- Twinsburgh.
 Kimmel, Flora Viola ----- El Dorado.
 Lusk, Carrie Susie ----- Akron.
 McFarlin, Anna May ----- Akron.
 McMillen, Katharine Margaretha ----- Akron.
 Palmer, Thomas Albert ----- Akron.
 Park, Kittie ----- Kenton.
 Perkins, Lillian White ----- Akron.
 Pomerene, Budge ----- Berlin.
 Rabe, Frank Albert ----- Oakland, Cal.
 Reifsnider, Bertha ----- Akron.
 Shipman, Inez May ----- Akron.
 Smith, Lettie Sefrona ----- Akron.
 Sourek, Anna Barbara ----- Akron.
 Terrass, Milford Charles ----- Akron.
 Tibbals, Ralph Waldo ----- Akron.
 Wagner, Gertrude May ----- Reservoir.
 Watters, Charles Garfield ----- Akron.
 Werner, Richard Marvin ----- Akron.
 Wheeler, May Irene ----- Akron.
 Wildes, Anna Elizabeth ----- Akron.
 Wise, Albert Joseph ----- Suffield.

SUMMARY OF STUDENTS.

COLLEGIATE DEPARTMENT.

Graduate Students	5
Senior Class	23
Junior "	15
Sophomore "	24
Freshman "	30
Special Students	13

Graduate Students	5
Classical "	27
Philosophical "	29
Scientific "	36
Special "	13

Young Men	53
Young Women	57

PREPARATORY DEPARTMENT.

Senior Class	40
Middle "	27
Junior "	22
Unclassified Students	32

NORMAL DEPARTMENT.

Second Year	10
First Year	14

Young Men Preparatory and Normal	68
Young Women " " "	77

RECAPITULATION.

Collegiate Students	110
Preparatory and Normal	145
Young Men—Collegiate, Preparatory and Normal	121
Young Women—Collegiate, Preparatory and Normal	134
Total Attendance in Collegiate, Preparatory and Normal Departments	255

This statement presents only students in regular Collegiate, Preparatory and Normal classes. Students in Music and Art, to a considerable number, are not included in this summary.

GRADUATING CLASS.

1894.

NAME.	COURSE.	RESIDENCE.
Bargar, Margaret Elizabeth	S	Tracy.
Bateson, Carolynne Elinore	C	Kenton.
Clark, Harry Worthy	PH	Chardon.
Dean, Eva Ellen	S	Sioux City, Ia.
Dean, Origen Stone	S	Sioux City, Ia.
Findley, Samuel Emerson	C	Akron.
Herriff, Amy Irene	S	Kent.
Hollenbeck, Harland H.	C	Chardon.
James, Joseph Hidy	S	Washington C. H.
Johnston, Lizzie May	S	Tallmadge.
Mathew, Taca	C	Port William.
Musson, Estelle Frances	PH	Mogadore.
Schumann, Neva Grace	S	Kent.
Seidman, Arthur	C	Akron.
Simpson, John Hayward	PH	Attica.
Snyder, Harry Lee	S	Peru.
Sorrick, Cora Jennie	S	Akron.
Stutzman, Ada Mary	S	Akron.
Taber, Gertrude	PH	Castile, N. Y.
Teeple, Arthur Rowe	S	Akron.
Thomas, John Lewis	S	Akron.
Webster, Carlos Green	S	Norwalk.
West, Mary Zubia	S	Marietta.

DEGREES CONFERRED.

COMMENCEMENT 1893.

GRADUATES.

BACHELOR OF ARTS.

Cole, Edith Maora	Norwalk.
Eberhard, Le Roy Crockett	Akron.
Fehr, Peter	Akron.
Green, Isabelle Moore	Akron.
Kingsbury, Benjamin Freeman	Defiance.
Seidman, Edward Samuel	Akron.
Shipman, Charles Hiram	Akron.
Slade, Alice Cary	Columbus.
Thomas, Anna Elizabeth	Akron.

BACHELOR OF PHILOSOPHY.

Myers, Burton Dorr	Attica.
Osborne, Robert J.	Corry, Pa.

BACHELOR OF SCIENCE.

Coffey, William Tatom	Marion, Ia.
Hardin, Willett Lepley	South Warsaw.
Holcomb, Orrin Grant	Cedar Rapids, Ia.
Hollinger, Myrven John	Copley.
Keller, Alvin	Attica.
Koenig, Charles William	St Louis, Mo.
McLean, Johnson Brown	West Alexandria.
Putnam, William Pitt	Rockland.

PRIZES.

I.

THE ALUMNI PRIZE FUND.

Awarded for excellence in scholarship.

- a.* In the Senior Preparatory Class, to Charles C. Taylor.
- b.* In the Freshman Class, to Mary E. Andrews.
- c.* In the Sophomore Class, to Herbert W. Kennedy.

II.

THE O. C. ASHTON PRIZES.

Awarded for excellence in declamation.

1893-94.

- a.* In the Senior Class, first prize to Harry W. Clark ; second prize to Carlos G. Webster.
- b.* In the Junior Class, contest not held at date of issue of catalogue.
- c.* In the Sophomore Class, first prize to Maude R. Newberry ; second prize to Arabella R. Armstrong.

III.

THE J. H. PENDLETON LAW PRIZES.

Awarded for excellence in law essays.

1892-93.

First prize to Edward S. Seidman ; second prize to Robert J. Osborne.

1893-94.

Decision not rendered at date of issue of Catalogue.

ASSOCIATION OF THE ALUMNI.

OFFICERS.

President, MRS. LUCY DANFORTH FELT, '86.

Vice-President, ALEXANDER W. MAYNES, '87.

Secretary, WILLIAM B. BALDWIN, '91.

Treasurer, CALVIN J. HILL, '86.

APPOINTMENTS FOR ALUMNI PUBLIC EXERCISES.

Orator, ROBERT TUCKER, '91.

Alternate Orator, MARY B. JEWETT, '76.

Historian, JOSEPHINE L. CHANEY, '92.

DONATIONS AND IMPROVEMENTS.

Under this head the College takes pleasure in recording from year to year, with grateful appreciation, the contributions of its friends to its development and progress.

During the past year Mr. Henry Boszar, late of Brimfield, O., has died, making Buchtel College residuary legatee of his estate under his will.

The estate not being settled yet, it is not known how much will be received by the College, but, whatever the amount may be, the will provides that it shall be permanently invested in scholarships.

At the annual meeting of the Alumni Association held in June, 1893, additional donations were made to the Alumni Prize Fund amounting to \$330. Dr. W. J. Emery, '85; Mrs. Mary M. Gardner, '88; Lizzie J. Chaney, '92; Agnes M. Claypole, '92; Edith J. Claypole, '92; and Jas. E. Cole, '92, each subscribed \$50, and Marion Bell Slade, '86, increased her former pledge to \$50, by an additional subscription of \$30. The principal of the fund now stands at \$2695.

During the year ending April 1, 1894, the College Library has received donations of books from—

- Adelbert College, Cleveland, O.
- American Bar Association, Baltimore, Md.
- American Bankers' Association, N. Y.
- American Institute of Civics, N. Y.
- Rev. O. Cone, D. D., Akron, O.
- Meadville Theological School, Meadville, Pa.
- Prof. G. S. Morris, Ann Arbor, Mich.
- Newberry Library, Chicago, Ill.
- New York State Library, Albany, N. Y.
- Ferd. Schumacher, Chicago, Ill.
- Smithsonian Institute, Washington, D. C.
- U. S. Bureau of Education, Washington, D. C.
- U. S. Civil Service Commission, Washington, D. C.

U. S. Congress, Washington, D. C.
U. S. Department of Agriculture, Washington, D. C.
U. S. Department of the Interior, Washington, D. C.
U. S. Department of War, Washington, D. C.
U. S. Nautical Almanac Office, Washington, D. C.
U. S. Naval Observatory, Washington, D. C.
Washburn Observatory, Madison, Wis.

Many public documents have been received through the courtesies of Hon. John Sherman and Hon. Calvin S. Brice, Senators, and Hon. S. A. Northway, Representative from Ohio.

A large addition has been made to the representative avifauna of the Western Reserve in the Museum by the employment of a taxidermist. Many of the specimens thus prepared have been presented by friends of the College and others have been purchased. The Entomological Collection has also been thoroughly renovated by one of the graduates of 1892, who has rearranged most of the existing materials, added many species heretofore not represented, and named the greater part of the coleoptera in the cases.

The anonymous friend mentioned in the last Catalogue—Judge E. P. Green, of Akron, has fulfilled the promise there expressed, and the cast of the American Mastodon has arrived and awaits the completion of the Science Hall, where it will be at the same time a conspicuous and useful specimen.

The College has also to acknowledge the receipt of a Case of Insects from the Ohio Experiment Station at Wooster.