

# DENISON UNIVERSITY

## Annual Catalogue 1912-1913

Granville College	- -	Page	31
Shepardson College	-	"	88
Doane Academy	- -	"	98
Conservatory of Music	-	"	115

Granville, Ohio  
March 1913

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The University Bulletins are issued quarterly and entered at the Post Office in Granville as Second Class Matter



# DENISON UNIVERSITY

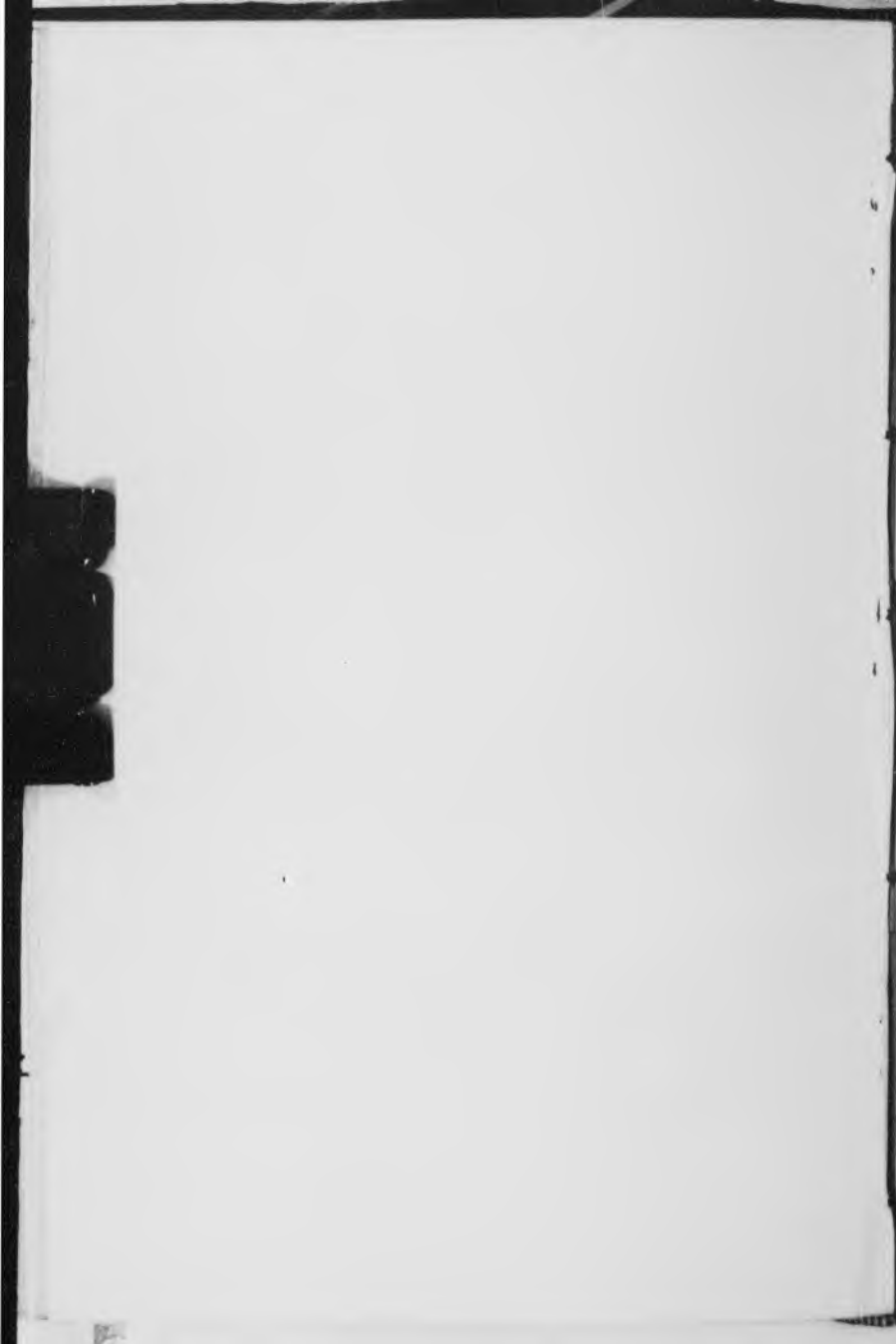
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The Eighty-Second

Annual Catalogue

of

Denison University

For the Year 1912-1913



GRANVILLE, OHIO  
1913

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DEPARTMENTS  
OF  
DENISON UNIVERSITY

Denison University Comprises Five Departments

- I. Granville College,
- II. Shepardson College,
- III. Doane Academy,
- IV. The Conservatory of Music,
- V. The School of Art.

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For Catalogue or other information  
Address EMORY W. HUNT, D. D., LL. D., President,  
GRANVILLE, OHIO

## The University Calendar

1913

February	4 Tuesday	. . .	Second Semester begins, 9 A. M.
March	27 Thursday	. . .	Spring Recess begins, 4:30 P. M.
April	3 Thursday	. . .	Spring Recess ends, 7:30 A. M.
June	8 Sunday	. . .	Baccalaureate Sermon and Sermon before Christian Associations.
June	9 Monday	. . .	Field Day. Commencement Concert, 8 P. M.
June	10 Tuesday	. . .	Graduating Exercises of Doane Academy, 10 A. M. Lewis Literary Prize Contest, 8 P. M.
June	11 Wednesday	. . .	Class Day Exercises, 10 A. M. Alumni Meeting, 2 P. M. President's Reception, 5 P. M.
June	12 Thursday	. . .	University Commencement, 10 A. M. Alumni Dinner, 1 P. M.

Summer Vacation, June 12 to September 18.

September	17 Wednesday	. . .	Examinations for Admission.
September	18 Thursday	. . .	First Semester begins, 9 A. M.
November	26 Wednesday	. . .	Thanksgiving Recess begins, at noon.
December	1 Monday	. . .	Thanksgiving Recess ends, at noon.
December	23 Tuesday	. . .	Holiday Recess begins, 4:30 P. M.

1914

January	7 Wednesday	. . .	Holiday Recess ends, 7:30 A. M.
January	15 Thursday	. . .	Day of Prayer for Colleges.
February	2-5 Mon-Thurs	. . .	Mid-year Examinations.
February	10 Tuesday	. . .	Second Semester begins, 9 A. M.
April	2 Thursday	. . .	Spring Recess begins, 4:30 P. M.
April	9 Thursday	. . .	Spring Recess ends, 7:30 A. M.
June	18 Thursday	. . .	Commencement.



# Board of Trustees

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## OFFICERS OF THE BOARD.

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G. M. PETERS, LL. D., President.

C. T. LEWIS, Esq., Vice President.

J. R. DAVIES, Esq., Secretary.

E. E. HOPKINS, Esq., Treasurer.

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### *Ex-Officio.*

EMORY W. HUNT, D. D.....Granville.

### CLASS I.—*Term Expires in 1913.*

REV. C. J. BALDWIN, D. D.....Granville.  
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W. H. DOANE, MUS. D.....Cincinnati.  
E. CANBY, Esq.....Dayton.  
REV. H. F. COLBY, D. D.....Dayton.  
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O. C. HOOPER, Esq.....	Columbus.
D. E. WILLIAMS, Esq.....	Columbus.

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AMBROSE SWASEY, Sc. D.....	Cleveland.
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J. M. SWARTZ, Esq.....	Granville.
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# Committees

## EXECUTIVE COMMITTEE.

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J. R. DAVIES,	BURTON CASE,
B. F. McCANN,	C. J. ROSE,
E. E. HOPKINS,	*D. M. SHEPARDSON,
BUNYAN SPENCER,	J. M. SWARTZ,

## FINANCE COMMITTEE.

B. F. McCANN, <i>Chairman</i> .....	Term expires 1917
W. H. DOANE.....	Term expires 1913
F. P. BEAVER.....	Term expires 1914
E. CANBY.....	Term expires 1915
E. J. BARNEY.....	Term expires 1916

## FINANCE EXAMINING COMMITTEE.

E. M. THRESHER,                      W. D. CHAMBERLIN.

## AUDITORS.

D. E. WILLIAMS,                      S. F. VAN VOORHIS.

## LIBRARY COMMITTEE.

W. H. CATHCART, *Chairman*.

E. W. HUNT,	C. J. ROSE,
W. H. JOHNSON,	O. C. HOOPER.

## COMMITTEE ON INSTRUCTION.

W. H. CATHCART, <i>Chairman</i> .	J. M. AMOS,
E. M. THRESHER,	V. R. SHEPARD,
H. F. STILWELL,	H. F. COLBY,
C. T. LEWIS,	M. BRELSFORD.

\*Deceased.

# Faculty of Instruction and Other Officers

## \*THE UNIVERSITY FACULTY.

**EMORY W. HUNT, D. D., LL. D., *President.***

*Residence, President's House, College Hill*  
*Maria Theresa Barney Professor of Intellectual and Moral Philosophy.*  
*(Absent on leave, 1912-1913)*

**RICHARD S. COLWELL, D. D.,**

*Professor of the Greek Language and Literature.*  
*(Dean and Acting President, 1912-1913)* Prospect Hill

**GEORGE F. MCKIBBEN, PH. D.,**

*Professor of Romance Languages.* Elm St., near Plum

**CHARLES L. WILLIAMS, A. M.,**

*Professor of Rhetoric and English Literature.* West Elm St.

**WILLIAM H. JOHNSON, A. M.,**

*EMORY W. BARNEY Professor of the Latin Language and Literature.*  
 Burgh St.

**H. RIDGES HUNDLEY, A. M., D. SC.,**

*Dean of Deane Academy, with rank of Professor in University Faculty.*  
 College Hill

**WILLIS A. CHAMBERLIN, PH. D.,**

*Professor of the German Language and Literature.*  
 Plum St. and Park Drive

**CHARLES E. GOODELL, A. M.,**

*Professor of History and Political Science.*  
 Granger and East College Sts.

**FRANK CARNEY, PH. D.,**

*Professor of Geology and Mineralogy.* Burgh St.  
*(Absent on leave, 1912-1913)*

**ARTHUR M. BRUMBACK, A. M.,**

*Professor of Chemistry.* Pearl St.

**GEORGE E. COGHILL, PH. D.,**

*Professor of Zoology.* Park Drive

\*The term "University Faculty," as used in this catalogue, includes all persons giving instruction in the various departments of the University; the department faculties include in each case all persons giving instruction in the department in question.

## ANNUAL CATALOGUE

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- ELLIS E. LAWTON, PH. D.,  
Professor of Physics. Sunset St.
- MALCOLM E. STICKNEY, A. M.,  
Professor of Botany. Prospect St.
- PAUL BIEFELD, PH. D.,  
Professor of Astronomy and Director of the Swasey Observatory. Elm St.
- ANNA B. PECKHAM, A. M.,  
Associate Professor of Mathematics. Stone Hall
- BUNYAN SPENCER, A. M., B. D.,  
Associate Professor of Philosophy. Corner Elm and Pearl Sts.
- THEODORE S. JOHNSON, M. S.,  
Acting Professor of Civil Engineering. West Broadway
- CLARENCE D. COONS, M. S.,  
Assistant Professor of Physics. Pearl St.
- RAYMOND W. PENCE, A. M.,  
Assistant Professor of English. Mulberry St.
- AUGUST ODEBRECHT, A. M.,  
Assistant Professor of Modern Languages. Burgh St.
- VICTOR H. HOPPE, A. B.,  
Assistant Professor of Public Speaking. East Elm St.
- FORBES B. WILEY, A. B.,  
Assistant Professor of Mathematics.  
(Absent on leave, 1912-1913)
- BLANCHE G. LOVERIDGE, A. M.,  
Dean of Shepardson College; Pedagogy and History of Art. Burton Hall
- CARL PAIGE WOOD, A. M.,  
Director of Conservatory of Music; Instructor in Musical Theory. Sunset St.
- LAURA B. PARSONS,  
Director of School of Art. King Hall
- FANNIE J. FARRAR,  
Head of Piano Department. Thresher Hall
- JOHN MOYSES PRISKE,  
Head of Voice Department. West Broadway

## DENISON UNIVERSITY

CARRIE M. HOWLAND,  
Instructor in China Painting  
Cor. Broadway and Mulberry Sta.

CLARA A. DAVIES, M.S.,  
Instructor in Science. Stone Hall

ELIZABETH M. BENEDICT,  
Instructor in Organ and Piano. Thresher Hall

IRVING STODDARD KULL, A. M.,  
Instructor in History. West Broadway

MARY L. MCKIBBEN, B. PH.,  
Instructor in French. West Elm St.

LILY BELL SEPTON, B. S.,  
Instructor in Chemistry. Domestic Science Hall

CHARLES E. DAVIS, B. S.,  
Instructor in Latin. Main St.

HELEN K. HUNT, PH. B.,  
Instructor in English. President's House

MRS. EUGENIA ELIZABETH FINLEY,  
Instructor in Domestic Science. Domestic Science Hall

BERTHA E. STEVENS,  
Assistant in Piano. Thresher Hall

SARAH H. SEYMOUR,  
Arts and Crafts. Plum St.

RUTH JEANNETTE BAILEY,  
Violin and Voice. Thresher Hall

RUTH ESTHER ROCKWOOD,  
Assistant in Harmony. Mulberry St.

WALTER LIVINGSTON, B. S.,  
Director of Physical Training for Young Men. Prospect St

CONSTANCE TEEPLE, A. B.,  
Director of Physical Training for Young Women. Burton Hall

## Principal Officers of Administration

---

EMORY W. HUNT, D. D., LL. D.,  
President of the University.  
(Absent on leave, 1912-1913)

RICHARD S. COLWELL, D. D.,  
(Dean and Acting President, 1912-1913.)

ELMER E. HOPKINS, A. B.,  
Treasurer, Curator and Business Manager.  
(Office, Room 7, Doane Academy)

MARY H. HUNT, A. B.,  
Registrar.  
(Office, Room 2, Doane Academy)

H. R. HUNDLEY, D. SC.,  
Dean of Doane Academy.

BLANCHE G. LOVERIDGE, A. M.,  
Dean of Shepardson College.

MRS. KATE S. HINES, A. M.,  
Librarian.

MRS. ALICE K. HERRICK,  
Matron of Shepardson College.

MRS. LAURA A. SWARTZ,  
Director of Dining Hall.

# Denison University

## General Information

### LOCATION.

Granville, the home of Denison University, is situated in Licking County, near the geographical center of Ohio. It lies among the moderately elevated and partly wooded hills which mark the transition from the more level portion of the State to the more diversified surface of the southeastern section, conditions of natural environment admirably suited to the spirit and purpose of college life. The community is of New England origin, and similar to the traditional New England village in the high estimate which it places upon intellectual, moral and religious forces. It has long been free from saloons.

Granville is on the Toledo and Ohio Central Railway, and by electric car to Newark, six miles distant, has access to the Pennsylvania System, the Baltimore and Ohio, and all connecting lines. It has electric car connection with Zanesville, Columbus, Springfield, Dayton and various other points, and is provided with local and long distance telephone service.

### BUILDINGS.

Among the buildings occupied by the various departments of the University the following may be mentioned:

#### **Men's Dormitories.**

Marsh Hall, erected in 1856, and Talbot Hall, completed fifteen years later, furnish together dormitory accommodations for about one hundred and fifty students. Both are brick buildings, four stories high. Lavatories with shower baths and hot and cold water are accessible to each dormitory room, on



the same floor. The rooms are provided with a white iron bedstead and mattress for each student, dresser, lounge, bookcases, study table and chairs. They are lighted by electricity and heated by hot water, from the central plant. Talbot Hall, in addition to its dormitory rooms, contains class-rooms for the departments of History, Political Science, Latin, German, Romance Languages, Mathematics, Botany and Zoology.

#### **Women's Dormitories**

There are three buildings erected as dormitories for young women, Burton Hall, King Hall, and Stone Hall. These edifices are all provided with electric lights, heated by hot water radiators, and supplied with hot and cold water for the lavatories, from the central heating and lighting plant. Together they furnish rooms for about one hundred and twenty young women, aside from reception rooms, reading rooms, several class-rooms, offices, and apartments for members of the faculty of Shepardson College. These halls, as in the case of the dormitories for young men, are named in commemoration of individuals or families intimately connected with the management and growth of the institution in its earlier days. Easily accessible to the dormitories is the Shepardson Dining Hall, a bright spacious and well equipped room in which students and teachers living on the Shepardson College grounds take their meals.

#### **The Library Building.**

Doane Hall, a building of brick and stone, was erected for the library of the University in 1878, By Dr. W. Howard Doane, a member of the Board of Trustees. Its shelves contain the general library, comprising over thirty thousand bound and unbound volumes, in addition to which several departments maintain special libraries, housed in immediate proximity to their lecture rooms and laboratories.

#### **Barney Memorial Hall.**

This building is the gift of E. J. Barney, Esq., erected in memory of his father. It is of fire-proof construction throughout, and built with the most careful attention to the needs of

the work for which it is intended. It is devoted to the departments of Physics, Geology, and Civil Engineering, and provided with fine equipment, a description of which will be found under the heading of "Scientific Equipment," a few pages further on.

#### **Doane Academy.**

This building, in addition to the principal's office, the lecture rooms and society halls of the Academy, for which it is especially designed, contains the office of the President, Registrar and Treasurer, the President's lecture room, the lecture rooms of the Departments of English and Greek, and the University Chapel. It is of Oakland pressed brick and Amherst stone, and is three stories high above the basement. It was presented to the University by Dr. W. Howard Doane. The spacious basement of this building has been fitted up to serve as temporary quarters for the department of Chemistry.

#### **Conservatory Buildings.**

The main building of the Conservatory of Music was presented by Professor Almon U. Thresher and Mrs. Thresher. It is located on Cherry Street, opposite the grounds of Shephardson College, and contains rooms for instruction and practice, with apartments for members of the faculty of the Conservatory. Adjacent to it is Recital Hall, a well equipped building for chorus practice and public musical entertainments. It is provided with opera chairs and has a raised floor, so as to give all spectators an unbroken view of the stage. The building is furnished with Steinway concert grand and parlor grand pianos and a pipe organ, the gift of Dr. Doane.

#### **Cleveland Hall and the Doane Gymnasium.**

Cleveland Hall is the home of the Young Men's Christian Association, the Gymnasium for young men and the College Literary societies. The main Gymnasium floor, with gallery and running track, occupying the east end of the building, is called the Swasey Gymnasium, in recognition of the generosity of Mr. Ambrose Swasey, of Cleveland. For the same

reason the Assembly room of the Young Men's Christian Association, in the west end of the building, is designated as Sherwin Hall, in honor of Mr. H. A. Sherwin, of Cleveland. Adjoining the main Gymnasium floor is a spacious locker room, leading at the other end to the swimming pool and lavatories. On the second floor is a large reading room, provided with a well selected list of current magazines and newspapers, open to all young men of the University. The third floor is divided into two large halls occupied by the Calliopean and Franklin literary societies. There are also committee rooms, and offices for the Director of Physical Training.

The Doane Gymnasium was erected by Dr. Doane in order to furnish similar facilities for the physical health and development of the young women of Shepardson College. It contains ample floor space for all healthful forms of indoor exercise, a good running track, a swimming pool, and such other appliances as experience shows to be valuable in maintaining robust physical health in young ladies engaged in study. That the best results may be secured from these appliances, the use of the gymnasium is under the constant supervision of a competent director.

#### **The Swasey Observatory.**

The Astronomical Observatory, built and fully equipped by Ambrose Swasey, Esq., is the latest addition to the scientific resources of the University. Erected of white Vermont marble it constitutes a highly attractive feature of College Hill. In its construction and equipment, down to the smallest detail, Mr. Swasey spared no pains or expense to bring everything into accordance with the most modern ideas of astronomical work.

#### **The Heating and Lighting Plant.**

All the buildings of the University are heated and lighted from a central station, the boiler room of which is supplied with three horizontal-tubular boilers, and such auxiliary apparatus as is needed to distribute water for heating and lavatory purposes. The lighting apparatus consists of one 45 Kilo-Watt

Thresher generator, direct-connected to a 60 horse-power Ball engine and one 75 Kilo-watt Thresher generator, direct-connected to a Russell engine of 110 horse power. The latter has a capacity of 1200 lights, the former 720. These supply light to all the University buildings, and electric current to the laboratories for experimental purposes.

#### SCIENTIFIC EQUIPMENT.

*Physics.*—The Department of Physics occupies the first and second floors of Barney Memorial Hall, and displays in its thirty-one rooms the most modern details of laboratory construction. These include offices of administration, library, lecture and recitation rooms, general and research laboratories, photometric and photographic dark rooms, instrument and preparation rooms, fire-proof vault, constant temperature vault, chemical kitchen and mechanician's shop. The laboratories are supplied with natural gas, air under pressure, vacuum, hot and cold water, soft water, time service, electrical distribution from storage battery and alternating or direct current generators. A full complement of modern apparatus is available for lecture demonstrations and student work in course, while special facilities are provided for thesis and research work.

*Geology.*—The Department of Geology occupies the entire third floor of Barney Memorial Hall. The main lecture room, in the east end, is equipped with stereopticon and permanent screen for use of slides, the collection of which numbers between four and five thousand. This room also contains relief maps and roll maps, for the illustration of lecture work, and over two hundred drawers of specimens for the elementary study of minerals. The corresponding room in the west wing is used for laboratory work in Physiography and Geography. It is well supplied with tables, maps, minerals, etc., and contains a specially designed case of one hundred and forty drawers for the filing of topographic maps. The main room on the north side is used for mineralogical work. Sets of natural and artificial crystals are kept in this room, together with rocks and minerals for experimentation. Adjoining this room is the ad-

ministrative office of the department. The main room on the south side contains the Gilbert Geological Library, presented by the eminent geologist, Dr. G. K. Gilbert, of the United States Geological Survey, in recognition of the valuable work which has been done by the Geological Department of Denison. The room is also provided with a large number of current Geological and Geographical periodicals, English, French and German. There is a work-shop and a dark-room for photographic work. The shop contains a specially designed table for mounting maps on cloth. The equipment for geological photography is especially complete and efficient.

*Civil Engineering.*—The Department of Engineering occupies the fourth and fifth floors of Barney Memorial Hall. The equipment for field work includes transits, solar attachments, levels, plane tables, compasses, leveling and topography rods of all patterns, together with all the smaller implements needed. As an aid in class-room work the department has gathered a well-selected supply of shop drawings of railway and highway bridges, roof trusses, culverts, etc., with many drawings and specifications for sewers, water systems and other municipal works. From the Highway Commission of various States the department has secured plans and specifications for every form of modern highway construction. The drafting rooms occupy the top floors of the central division, and of both wings of Barney Hall, are well lighted by large skylights, and furnished with all requirements for a thorough course in drafting. The department library and reading room is supplied with the best current technical periodicals and a carefully selected list of important books on all branches of engineering work. There is also a large collection of lantern slides for illustrative purposes.

*Chemistry.*—The Chemical Laboratories occupy the whole basement floor of the Doane Academy building. There are nine rooms, forming three laboratories, store rooms, balance room, lecture room and office, where is located a chemical library.

The equipment is ample for the needs of the courses. One store room is well stocked with glass, wood, iron and porcelain

ware, issued to the students in quantities amply sufficient for the demands of the best work. The other store room is stocked with chemicals. The equipment and supplies are selected with special reference to the aim of the course, which is to give a broad theoretical basis. The first three years of the work are devoted entirely to this end. Only students who acquire such a foundation are invited to continue work in chemistry. For all who are ready for advanced work the laboratories offer excellent means for entering upon special and technical subjects. Those who are interested in medicine, pharmacy, industrial chemistry, mining, chemical engineering and other allied branches will find in the laboratories abundant opportunity for securing preparatory training.

*Zoology and Botany.*—The Department of Botany and Zoology occupy temporary quarters in Talbot Hall, where lecture rooms and laboratories for the various classes in general biology, morphology and histology have been provided. The lecture rooms are equipped with projecting apparatus for lantern slides, microscopic preparations and opaque objects, Leuckart zoological and Borntraeger botanical charts, Ziegler and Auzoux models, and other illustrative materials.

The University Herbarium embraces representative collections from all parts of the United States and Mexico, and is especially full in local flora, affording valuable equipment for classes in systematic botany. A number of the leading botanical and zoological journals in English, French and German are accessible to students. The library of the Scientific Association receives in exchange for the *Bulletin of the Scientific Laboratories* the Proceedings and Transactions of many learned societies at home and abroad, together with the scientific publications of the various States and of the United States Government. This library, located in Barney Memorial Hall, is open for consultation every working day of the college year.

*Astronomy.*—The Department of Astronomy occupies the Swasey Observatory. Its equipment is primarily intended for teaching, but is of such high grade as to serve for special and

original research along several lines suitable to students prepared for it. Minor instruments will be added from time to time to enlarge the facilities, both for teaching and for research. Extension work will also be undertaken, through popular lectures, illustrated by lantern slides, for the benefit of the general student body and for outside communities, wishing to become acquainted with some of the various phases of the subject.

The equipment of the Observatory consists of an Equatorial telescope, of the standard Warner and Swasey type, similar in design to the 36-inch Lick and the 40-inch Yerkes. The optical parts were furnished by the John A. Brashear Company. The objective has a clear aperture of nine inches and a focal-length of 135. The finder is of three-inch aperture and 17 inches focal-length. In addition to the usual number of eyepieces, there is provided a diagonal eyepiece for zenith observation, a helioscope for observing the sun, and a standard Warner and Swasey position micrometer, for the measurement of double stars. The four-inch combined transit and zenith instrument is of the standard Warner and Swasey type, with iron base and columns. It has a universal micrometer with electrical illumination, showing dark lines in a bright field. Two twelve-inch circles are provided, one used as a setting circle, reading by opposite verniers to single minutes, the other divided on solid silver, reading by opposite verniers and magnifiers to ten seconds. The instrument has three fine levels in latitude and one for the horizontal axis. A perfect system of reversals is provided for use of the instrument, both as a transit and zenith telescope. The transit room contains also a standard Seth Thomas mean time clock, regulated to central time.

The library contains the sidereal and mean time clocks, made by Riefler, of Munich. These are the finest clocks made for astronomical purposes, surpassing all others in exactness. The cylinder chronograph is electrically connected with both clocks, the transit instrument and the equatorial, so that work done with either of these instruments, involving time records, may be permanently recorded on the chronograph sheet to one-tenth of a

second. A telegraph sounder is also provided, audible in transit and equatorial rooms, for eye and ear method of observing. The standard barometer and thermometer attached, is also placed in the library. The shelves contain a complete set of the Proceedings of the Royal Astronomical Society of London, of the Monthly Notices, and of the Royal Society Proceedings. There are the usual star maps and catalogues, eighteen-inch celestial globe, files of the more important Astronomical journals and various reference books on Astronomy and related subjects. The library is used as a computing room and with the adjoining dark room is lighted by both gas and electricity and heated by an independent hot water system.

#### LIBRARY PRIVILEGES.

The University Library is open to the Faculties and students of all departments. Its contents are classified according to the Dewey System. In addition to the general library, various special collections of books, periodicals, transactions of societies, etc., are maintained by the different departments. The Marsh Memorial Library, in King Hall, founded by Dr. and Mrs. Shepardson in memory of their daughter, Mrs. Lide Shepardson Marsh, furnishes a valuable collection of books for missionary and Bible study. A special collection of works on music is maintained in the Conservatory building, and in Burton Hall is an excellent library of literature bearing on the history and criticism of the Fine Arts.

#### SCIENTIFIC PUBLICATIONS.

The "Bulletin of the Scientific Laboratories," published under the auspices of the "Denison Scientific Association," affords an opportunity for the publication of original work by students and instructors in the several departments.

Among the contents of this Bulletin have been many of the important geological and biological studies of the late C. L. Herrick; various studies in physics, by Professor A. D. Cole; studies in the pre-glacial Drainage of Ohio, by Professor W. G. Tight; a series of papers on the Clinton Group of Ohio, by



August F. Foerste; studies on the nerve system of fishes, by Professor C. J. Herrick, a Catalogue of the Phanerogams and Ferns of Licking County, by Herbert L. Jones; the Birds of Licking County, by Irving A. Field; papers on various phases of the Geology of Licking County, by C. L. Herrick, W. G. Tight, Professor Frank Carney and others; studies in New Mexico Geology, by C. L. Herrick and Douglas W. Johnson, and a number of Professor Thomas Leonard Watson's researches in the various ore-deposits of Virginia, Georgia and North Carolina.

#### THE DENISON SCIENTIFIC ASSOCIATION.

This society aims, in the words of its constitution:

(a) To afford opportunity for the interchange of ideas by those interested in the various sciences.

(b) To collect, record, and disseminate information bearing on the sciences.

(c) To stimulate interest in local natural history and to preserve notes and specimens illustrating the same.

It has been the means of much good in arousing a desire for original scientific investigation, and the interest in its work is constantly increasing.

For information concerning the Bulletin of the Scientific Laboratories, published under the auspices of this association, address the Permanent Secretary, Professor Frank Carney.

#### THE ENGINEERING SOCIETY.

The Engineering Society is an organization composed of instructors and students who meet to read and discuss papers of technical interest, and make reports on engineering structures and other subjects relative to the work of the department of Civil Engineering. A reading room and library are maintained, accessible to all students in the department, where the leading Engineering periodicals may be consulted. An effort is made to develop the habit of constant study of Engineering literature, together with an appreciation of its value to the engineer.

## GEOLOGICAL SOCIETY.

The C. L. Herriek Geological Society was founded in 1907, "to foster a spirit of inquiry, to stimulate an interest in Geological studies independent of class work, and to emphasize the pleasure to be found by the pursuit of knowledge in nature." A monthly programme is given throughout the school year, so arranged that each member appears before the society each semester. The number of active members is limited to twenty.

## THE CHEMICAL SOCIETY.

The Denison Chemical Society is open to all interested in any way in the chemical sciences. Its object is to foster a spirit of inquiry as to the progress and applications of chemistry. Meetings are held on the first Wednesday evening of each month.

## THE DENISON LANGUAGE ASSOCIATION.

This association was organized to stimulate interest in language study and unify the work of the various language departments of the University. Both instructors and students are admitted to membership and take part in its proceedings, and men prominent in educational or literary work elsewhere are occasionally secured to present papers or addresses under its auspices.

## LITERARY SOCIETIES.

There are seven literary societies maintained in the different departments of the University,—the Calliopean, and Franklin, open to all young men in Granville College classes; the Euterpean, Philomathean and Thalian, for young women in Sheperdson College classes; the Ciceronian, and Irving, of Doane Academy. These all maintain regular weekly meetings and are of great value to the literary and social life of the students.

## THE DENISON ORATORICAL ASSOCIATION.

The aim of this organization is to promote interest in public speaking. Under its auspices a local contest is held each year to determine who shall be the representative of the college at the

Inter-Collegiate Oratorical Contest. Occasional contests in debate with other colleges have also been arranged.

#### ATHLETIC ASSOCIATIONS.

The Denison Athletic Association looks after the work in the gymnasium and provides other forms of physical training, at once interesting and profitable to the student. The payment of an annual athletic fee, assessed by the University, constitutes each male student a member of this association, entitled to all its privileges and to a vote in its management. The association possesses a fine athletic field, presented by F. P. Beaver, Esq., of Dayton. A similar association has been organized by the young women of the University, called the Shepardson Athletic Association.

#### MORAL AND RELIGIOUS INFLUENCES.

Vigorous branches of both the Young Men's Christian Association and the Young Women's Christian Association are maintained in the University. These organizations maintain regular classes in systematic Bible Study, the Young Men's Association offering a four years' course comprising the Life of Christ, the Apostolic Age, Old Testament Biography, and New Testament Doctrines. Students taking this course receive certificates upon successful examination at the end of each year, and at the end of the course a diploma, under the auspices of the International Committee of the Young Men's Christian Association, Bible Study Department.

The entire life and administration of the University, while avoiding sectarianism, is positively and emphatically in favor of the Christian religion. Each day the University assembles in the Chapel for prayers, and this service the students in all departments are required to attend, unless excused for satisfactory reasons. They are also expected to attend morning and evening church services each Sunday, full liberty being allowed to conscientious denominational preferences in selecting a place of worship. Students are welcomed in the various Sunday Schools of the village, and in the Baptist Sunday School there are several

classes taught by University instructors and intended expressly for students.

#### DIVISION OF THE SCHOOL YEAR.

The scholastic year, exclusive of the short winter and spring recesses, is divided into two semesters of eighteen weeks each. The Christmas and Easter vacations are continued, as under the former three term system, but new students desiring to enter for the latter part of the year will present themselves not at the close of one of these vacations, but at the opening of the second semester. (See Calendar, page 4.)

#### REGULARITY AND PUNCTUALITY.

Each semester opens with the Chapel service, on the morning of the day scheduled in the University calendar. Punctuality at the beginning of the session is especially desired, as losses incurred by beginning behind one's classes can never be fully repaired. Although students will be admitted at any time, it is highly desirable that they begin their studies with the Fall semester. If the attendance is expected to be for but one semester, that is best; if for longer, the regularity secured by beginning with the opening of the school year, in September, adds greatly to the profit of the study.

Without special permission to do otherwise, each student is expected to take not less than thirteen nor more than eighteen hours of work in the class-room per week.

Careful records are kept by the University officers, from which each student's character for punctuality as well as for attainments in his studies can at any time be ascertained. This information will be furnished to parents or guardians at the end of each semester, and at any other time, on application to the President.

#### CHAPEL ATTENDANCE.

Students prevented by any valid reason from regular attendance at the daily Chapel exercises must present in advance their reasons for seeking exemption from this requirement and

have the same approved by the proper authority. For young men in college classes, this matter is in the hands of the Dean of Granville College, Professor R. S. Colwell; for young men in academy classes, the Dean of Doane Academy, Dr. H. R. Hundley; for young women, the Dean of Shepardson College, Miss Loveridge.

### CLASS STANDING.

Each instructor keeps a constant record of the work of each pupil, and reports the same to the Registrar at the close of the semester. In the college classes the standing is indicated as follows: Students making a passing grade in any study are divided into four groups, designated by the letters A, B, C, and D, respectively. The letter A opposite a student's name indicates that his work for the semester, including examination, has been *excellent*; B, that it has been *good*; C, *fair*, and D, *poor*. The letter E indicates that the work has been too poor to receive credit until some condition, imposed by the instructor, has been fulfilled. F indicates a complete failure.

Students marked E must remove the imposed condition previous to the beginning of the second semester thereafter, in order to get credit for the study in question. Students marked F in any study necessary to the completion of their course must take the study over again in class, or if that is impossible, in such way as the Faculty shall direct.

*Beginning with the class to be graduated in 1913, no degree will be granted to any student whose standing shall not have been B or above for at least half the number of credit hours required for his course, nor in any single semester will more than twelve credit hours graded as low as D be counted on requirements for graduation.*

### EXAMINATIONS.

A careful examination of every class is held at the close of each semester. All students, whether candidates for degree or not, must attend all examinations in the studies which they pursue. No student whose examination in any study is reported

"incomplete" will receive credit for that study until the examination has been completed, and this must be done within one year from the date of the original examination.

#### SPECIAL STUDY FOR HONORS.

Any regularly classified student who has maintained an A rank in not less than half his work during two successive semesters of the freshman and sophomore years, and has not fallen below a passing grade in any single study, may, with the consent of the faculty, be enrolled as a student for Honors in some selected department of study. Application for such enrollment shall be made prior to the first of April of the Junior year. If the application be granted, the Professor in charge of the department selected shall assign work to the applicant substantially equal in amount to a three-hour study for one college year.

The student shall be examined on this work prior to the first of May of the Senior year. The examination shall be conducted under the direction of the Professor in charge, assisted by some other member of the Faculty to be appointed by the President, and in addition to the special assignment it shall cover in a general way all other work which the applicant has taken in the same department. If creditably passed it shall entitle the applicant to have his name placed upon the records of the University as having won Honors in this department, and the fact shall be announced on Commencement day and published in the annual catalogue.

During the interval between enrollment for Honors and examination, the student must maintain an A rank in all work done in the department to which his special study shall belong, and must not fall below B in any other department. He must also maintain an unblemished record in department.

Work done for honors must not be elementary in its character, and in no case shall it be the only work done in the department in which it is taken. Advanced elective courses already offered may be utilized as Honor courses, or special topics may be assigned to suit individual cases; but in no case shall work

upon which Honors are bestowed be counted as any part of the student's requirements for his baccalaureate degree.

### PRIZES.

1. *The Lewis Literary Prize Contest.* Charles T. Lewis Esq., of Toledo, offers to the Franklin and Calliopean Literary Societies the following prizes, to be obtained by literary contests during Commencement week: Forty dollars to the best debater, thirty dollars to the best orator, twenty dollars to the best essayist, and ten dollars to the best declaimer.

2. *The Samson Talbot Prize Reading.* This prize foundation is for the best reading of Scripture and is open to Seniors and Juniors. The prizes are \$40 and \$20, respectively.

\*3. *The Fletcher O. Marsh Prize.* A prize of \$100 to the undergraduate student in Physics who shall present the best paper upon such topic as may be assigned by the department of Physics. This prize is established by Charles A. Marsh, of the Class of 1878, as a memorial to his father and mother, who were long connected with the educational interests of Granville.

4. *The Francis W. Shepardson Prizes in History.* First and second prizes of \$50 and \$25 respectively, for the best papers or examinations on some phase of American History, to be determined by the department of History. These prizes are contributed by F. W. Shepardson, LL. D., of the Class of 1882.

5. *Lake Laboratory Scholarship Prize.* The University offers as a prize to students in the Department of Botany and Zoology a scholarship in the State University Lake Laboratory, for the summer session following the award. This prize is awarded on the basis of general excellence in the work done in these two departments. In case two applicants seem equally meritorious two such scholarships may be offered.

### SCHOLARSHIP FUND.

For deserving students in need of assistance the University has at its disposal the annual income of the following funds:

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\*Not offered for the current year.

1. The Mary K. Monroe Fund, \$30,000. The income of this fund is available for ministerial students in Granville College, and in the Theological Seminaries after graduation from Granville College.
2. The King Scholarship Endowment, of \$12,000, for the aid of young ladies in Shepardson College.
3. The Ebenezer Thresher Fund, of \$10,000, for the aid of young men of Granville College.
4. The M. E. Gray Fund, of \$5,000, for the aid of ministerial students of Granville College.
5. The David and Jane Harpster Fund, \$1,500, available for students in Granville College or Doane Academy.
6. The David Thatcher Fund, of \$1,500, available for ministerial students in Granville College or Doane Academy.
7. The Mary Arnold Stevens Fund, of \$500, for students in Granville College or Doane Academy.
8. The Shepardson Scholarship, income of \$1,000, for students in Shepardson College.
9. The Luse Scholarship, income of \$1,000, for students in Shepardson College.
10. The Bostwick Scholarship of \$1,000, established by A. F. and A. A. Bostwick, of Seville, Ohio.
11. The Griswold Scholarship, the income of \$5,000, the gift of the late G. O. Griswold, Esq., of Warren, Ohio.
12. The Lewis Scholarships, contributed by Charles T. Lewis, Esq., of Toledo, affording free tuition annually to two students.
13. The Doyle Scholarship, contributed by John H. Doyle, Esq., Toledo, Ohio, affording free tuition annually to one student.
14. The Maria Theresa Barney Fund, from which the President of the University has a varying amount at his disposal each year to be loaned to students at his discretion, without interest.
15. The Ohio Baptist Education Society has at its disposal free tuition scholarships for its beneficiaries to the number of forty, if necessary.



16. By authorization of the Trustees the President of the University may remit the tuition of a limited number of students in case of special necessity.

17. A few scholarships which were sold in the early days of the college were afterwards surrendered by the original purchasers and are at the disposal of the Faculty.

Good class standing and exemplary conduct in all relations of life are prerequisite to the enjoyment of any of these scholarships. Pupils holding them may be called upon to render a certain amount of service to the University, but never to an amount which will interfere with regular college studies.

#### FIRST DEGREES.

The degrees of A. B., B. S., and Ph. B. are conferred upon such candidates for the same as have passed satisfactory examinations upon all studies required.

Candidates for these degrees are required to pay the Treasurer their dues, including the graduating fee of five dollars, as early as June 1.

No first degree will be granted to any candidate therefor who, at the beginning of the second semester of the Senior year, shall have charged against him as incomplete any work of the course required prior to the Senior year.

#### SECOND DEGREE.

The usual second degree is conferred on completion of graduate courses of study. Undergraduates who have advanced standing may take work toward second degree, but not more than two-thirds of a year of such work may be taken previous to graduation. Students in graduate courses are subject to the same tuition, incidental and laboratory fees as others. The diploma fee for all advanced degrees is ten dollars. The particular requirements for the several degrees are as follows:

#### FOR THE DEGREES OF A. M. AND M. S.

The candidate for either of these degrees shall study in the University at least one year. He shall, with the approval of the Faculty, select one study which he shall pursue throughout the

year as a Major; and he shall also, with the advice of the Professor in his major subject, choose one or two minors in allied subjects to be pursued throughout the year. The candidate, before receiving his degree, shall present a satisfactory thesis on some topic approved by the Professor in charge of his Major.

#### THE MEDICAL PREPARATORY COURSE.

The Scientific Course includes the subjects recommended by the Association of Medical Colleges for prospective medical students, and special opportunities are offered in departments of Zoology, Botany and Chemistry to such students as may desire to secure entrance to medical schools of the best grade. To accommodate those students who desire to lay the broadest possible foundation for medicine, a year of graduate work is offered leading to the degree of Master of Science and presenting advanced courses in comparative anatomy, histology, neurology, botany, chemistry and physics.

# The Separate Departments

## I. Granville College

### HISTORICAL STATEMENT.

The name "Granville College" was the official designation of the school now known as Denison University, for about ten years previous to the adoption of the present name. At various times during the succeeding years the re-adoption of the name had been informally discussed among the friends of the institution, but the matter had not been taken up officially. When the re-adjustment of the relations between Denison University and Shepardson College came before the Board, the necessity for some separate designation for the department of the University which has to do with the instruction of young men in the four college classes led inevitably to the revival of the old name *Granville College*. Wherever this term is used, the reader will understand that it refers to the department of collegiate instruction for young men, as distinguished from the departments dealing with the collegiate instruction of young women, preparatory instruction, etc.

## Faculty of Granville College

EMORY W. HUNT, D. D., LL. D.,  
*Intellectual and Moral Philosophy.*  
(Absent on leave, 1912-1913.)

RICHARD S. COLWELL, D. D.,  
*The Greek Language and Literature.*  
(Acting President, 1912-1913.)

GEORGE F. MCKIBBEN, PH. D.,  
*The Romance Languages.*

CHARLES L. WILLIAMS, A. M.,  
*Rhetoric and English Literature.*

WILLIAM H. JOHNSON, A. M.  
*The Latin Language and Literature.*

WILLIS A. CHAMBERLIN, PH. D.,  
*The German Language.*

CHARLES E. GOODELL, A. M.  
*History and Political Science.*

FRANK CARNEY, PH. D.,  
*Geology and Mineralogy.*

ARTHUR M. BRUMBACK, A. M.,  
*Chemistry.*

GEORGE E. COGHILL, PH. D.,  
*Zoology.*

ELLIS E. LAWTON, PH. D.,  
*Physics.*

MALCOLM E. STICKNEY, A. M.,  
*Botany.*

PAUL BIEFELD, PH. D.,  
*Astronomy.*

ANNA B. PECKHAM, A. M.,  
*Mathematics.*

- BUNYAN SPENCER, A. M.,  
*Logic.*
- THEODORE S. JOHNSON, M. S.,  
*Engineering.*
- CLARENCE D. COONS, M. S.,  
*Physics.*
- RAYMOND W. PENCE, A. M.,  
*English.*
- AUGUST ODEBRECHT, A. M.,  
*Modern Languages.*
- VICTOR H. HOPPE, A. B.,  
*Public Speaking.*
- FORBES B. WILEY, A. B.,  
*Mathematics.*  
(Absent on leave, 1912-1913.)
- BLANCHE G. LOVERIDGE, A. M.,  
*Pedagogy and History of Art.*
- CARL PAIGE WOOD, A. M.,  
*Theory of Music.*
- LAURA B. PARSONS,  
*Drawing and Designing.*
- MARY L. MCKIBBEN, PH. B.,  
*French.*
- IRVING STODDARD KULL, A. M.,  
*History.*
- LILY BELL SEPTON, B. S.,  
*Chemistry.*
- WALTER LIVINGSTON, B. S.,  
*Physical Training.*
- CONSTANCE TEEPLE, A. B.,  
*Physical Training.*

## Conditions of Admission

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Regularly authenticated graduates of Doane Academy are admitted to the Freshman Class without further examination.

The graduates of certain approved High Schools are credited with their certified High School work without examination, so far as such work coincides with the entrance requirements of the University. Candidates prepared elsewhere than in Doane Academy must in every case present certificates or diplomas officially signed and showing the amount of work done and credit gained in each study. These must be presented when the student applies for admission.

Examinations for admission to the College classes will be held on the day preceding the beginning of the Fall semester, at 9 a. m. (See Calendar.)

### ENTRANCE REQUIREMENTS.

The unit employed in the following statement of Entrance Requirements comprises five hours (recitation periods) a week throughout the school year. For admission to the Freshman Class without condition fifteen units must be offered from the following recognized preparatory work, in accordance with the groups stated as follows:

#### ENGLISH, 3 UNITS.

The usual College requirements in Composition, Rhetoric and English Classics.

#### LATIN, 4 UNITS.

First Latin book, 1 unit.

Caesar and Composition, 1 unit.

Cicero, 6 orations, and Composition, 1 unit.

Virgil, six books of the Aeneid, and Composition, 1 unit.

#### GREEK, 3 UNITS.

First Greek book, 1 unit.

Anabasis and Composition, 1 unit.

Homer and Composition, 1 unit.

## FRENCH, 3 UNITS.

## GERMAN, 3 UNITS.

The course outlined by the Committee of 12 of the Modern Language Association of America, section 7-8, is recommended.

## HISTORY, 4½ UNITS.

Ancient History, 1 unit.

Medieval and Modern History, 1 unit.

English History, 1 unit.

Advanced United States History, 1 unit.

Civics, ½ unit.

## MATHEMATICS, 3 UNITS.

Algebra to Quadratics, 1 unit.

Algebra through Quadratics, ½ unit.

Plane Geometry, 1 unit.

Solid Geometry, ½ unit.

## SCIENCE, 5½ UNITS.

Physics without laboratory work, ½ unit; with laboratory work, ½ unit additional.

Chemistry without laboratory work, ½ unit; with laboratory work, ½ unit additional.

Physical Geography without laboratory work, ½ unit; with laboratory work, ½ unit additional.

Botany, ½ unit; with laboratory work, ½ unit additional.

Physiology, ½ unit.

Zoology without laboratory work, ½ unit; with laboratory work, ½ unit additional.

Mechanical Drawing, ½ unit.

From this list of possible entrance subjects the following groups are made up, the studies of the first group being required of all applicants for admission to the Freshman Class, in addition to which Group II is required of all who enter the Classical Course, Group III of all who enter the Philosophical, and Group IV of all who enter the Scientific.

GROUP I, *required of all.*

English, 3 units.

Mathematics, 2½ units (Algebra 1½ units, Plane Geometry, 1 unit).

History, 1½ units.

Total, 7 units.

GROUP II, *required of Classical students.*

(Group I, as above, 7 units.)

Latin, 4 units.

Greek, 2 units.

Elective, 2 units.

Total, 15 units.

GROUP III, *required of Philosophical students.*

(Group I, as above, 7 units.)

Foreign Language, 4 units.

Science, 1 unit.

Elective, 3 units.

Total, 15 units.

If Latin is offered as a part of the requirements in this group, it must be not less than two units, and students desiring to pursue any of the college groups for the Philosophical degree which requires Latin must of course present 4 units of Latin for entrance.

GROUP IV, *required of Scientific students.*

(Group I, as above, 7 units.)

Foreign Language, 4 units. If Latin is offered it must be not less than 2 units.

Science, 2½ units.

Elective, 1½ units.

Total, 15 units.

DEFICIENCIES IN CERTAIN BRANCHES.—Students often apply for admission to regular classes, who are behind those classes in some study. If such students show ability, assistance is afforded them in compassing their purpose. It is sometimes, however, necessary for them to secure private instruction for a short time; but this may be obtained at reasonable rates.



**STUDENTS NOT CANDIDATES FOR A DEGREE.**—Students not candidates for a degree may be admitted to the College, provided they give satisfactory evidence to the Faculty that they can profitably pursue the studies which they select.

**GENERAL REQUIREMENTS FOR GRADUATION.**—In estimating credits for the baccalaureate degree the unit is one hour a week of lecture or recitation, or two hours a week of laboratory work, through one semester. One hundred and twenty-four such units, and four units in physical training, are necessary to the completion of any course leading to a degree. Ordinarily, the student will complete sixteen such units each semester, and no student will be permitted to elect studies aggregating more than eighteen or less than thirteen units in any semester without special permission from the Faculty.

#### CLASSIFICATION OF STUDENTS.

No student will be classified as Freshman who is deficient at the beginning of the year in more than ten hours of preparatory work. For sophomore standing the student must have removed entrance conditions and gained a credit for at least twenty-two hours of college work by the beginning of the year. For Junior standing he must have completed at least fifty-eight hours of college work, and for Senior standing at least eighty-eight. Gymnasium work required of Freshmen and Sophomores respectively must be completed before they will be advanced to Sophomore and Junior standing. No student will be graduated from the University who at the close of the Spring Recess previous to graduation has not gained credit for at least one hundred and six hours of college work.

#### DISMISSION.

Students leaving before the close of a semester will not be regarded as having honorably terminated their connection with the University unless regularly dismissed by the President.

#### EXPENSES.

It is believed that a collegiate education can be obtained here at as little expense as at any other college of equal rank for

thorough work and adequate equipment in the country. The following table will indicate closely the necessary items of expense:

Tuition, \$25 each semester	\$50
Room rent in Dormitories, including light and heat, \$17.50 to \$25 each semester, according to location	\$35 to 50
Incidentals, including Gymnasium, Athletic and Library fees, \$22.50 each semester	45
Books per year, (estimated)	12
Board	88
Washing	12
Sanitaries	10
Total	\$252 to \$267

Matriculation Fees are as follows: Freshman Class, \$4; Sophomore, \$3; Junior, \$4; Senior, \$5; Elective, \$2.

Students registering for more than eighteen hours of work in one semester are required to pay an extra tuition fee of \$1 for each extra hour.

For the Laboratory Fees connected with certain scientific studies, see the statements of the various scientific departments, in the following pages.

Registration Fee, one dollar. For registrations made the first day of a semester, the fee is remitted, for the second day, one-half of the fee is remitted.

A retaining fee of five dollars is charged for the reservation of rooms in the Dormitories, which must be paid before August first. This fee is credited on room rent and is forfeited if the room is not taken.

Absence from any regular examination subjects the student to a fee of \$2 for special examination.

Board in clubs costs from \$2.30 to \$2.75 per week; in families, \$3 to \$4.50. Whatever board costs over \$2.30 per week must be added to the above estimate. Many students reduce their expenses below this sum.

All term bills are payable at the beginning of each semester. Any student compelled by sickness to leave by the middle of the semester will have one-third of semester bills refunded.

## DORMITORY FURNISHING.

Students rooming in the college dormitories are expected to provide their own bed clothing, towels, soap and other toilet appliances. For the charge specified in the preceding table the college provides the necessary furniture (bedstead, mattress, dresser, book-case, lounge, table and chairs), lights the rooms with electric light and heats them by means of hot water radiators. The living rooms are all in close proximity to lavatories, on the same floor, where shower baths are provided, with hot and cold water. Students not rooming in the College buildings must have their rooms approved by the Faculty and be subject to the general regulations of the College.

# Statement of Work in the Various Departments

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## INTELLECTUAL AND MORAL PHILOSOPHY.

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PRESIDENT HUNT.

(Absent on leave, 1912-1913)

ASSOCIATE PROFESSOR SPENCER.

The required work in this department comprises one hour a week during the first semester of the Freshman year, four hours a week during the first semester, and five hours a week during the second semester of the Senior year. Elective work in Logic is offered through both semesters, three hours per week, open to Juniors and Seniors and other advanced students at the discretion of the Instructor.

The method of the work is almost exclusively by text-book and recitation, with theses upon assigned topics. Attention is not confined to a single text-book, however, but care is taken to give the student an introduction to the best literature of the subject.

President Hunt meets the Freshmen one hour a week during the first semester in a study of the foundations of Christian truth, which is examined with special reference to the objections which it has to meet today.

Careful attention is devoted to Deductive Logic, and the most helpful systems of symbols and diagrams are introduced.

In teaching Inductive Logic, the most recent developments are investigated, and the whole subject is treated not merely as a system of mental gymnastics, but as a method of practical training for philosophical, scientific and judicial investigations.

In Psychology, the final appeal is made to consciousness, while recognition is given to the results of psychological experiment.

In Ethics, the methods and conclusions of the evolutionary school are passed in review. Especial attention is given to the analysis of conscience, and to the principles in accordance with which the character of acts must be determined.

The work is given in the following courses:

1. *Foundations of Christianity*.—Freshman year, first semester, Thursday, 11 A. M.

3. (a) *Psychology*, until Holiday recess; (b) *History of Philosophy* begun. Senior year, first semester, four hours, Monday excepted, 10 A. M.

4. (a) *History of Philosophy*, until the Spring recess; (b) *Ethics*, from the Spring recess to end of the semester. Senior year, second semester, five hours, 10 A. M.

Courses 1, 3 and 4 are required of all candidates for the various degrees conferred by the University.

5. *Logic*.—Deductive and Inductive. Open to Juniors and Seniors and others at the discretion of the Instructor. First semester, Monday, Wednesday and Friday, 7:30 A. M.

6. *Logic*.—Applied. Special attention is given to Debate. Open to Juniors and Seniors and others at the discretion of the Instructor. Second semester, Monday, Wednesday and Friday, 7:30 A. M. Courses 5 and 6 are given by Associate Professor Spencer.

### MATHEMATICS.

ASSOCIATE PROFESSOR PECKHAM.

PROFESSOR BIEFELD.

ASSISTANT PROFESSOR WILEY.

(Absent on leave, 1912-1913)

The following courses are offered:

1. *Elementary Algebra*, a review course, six weeks, followed by *Plane Trigonometry*, twelve weeks. Freshman year, first semester, Monday, Tuesday and Thursday. Sections at 7:30, 8:30 and 10 A. M.

1a. *Solid Geometry*.—Freshman year, first semester, Wednesday, 7:30 A. M. This course is for students who do not present *Solid Geometry* for entrance, and is prerequisite to course 2. Only those propositions which are necessary for subsequent work in Mathematics and Physics are discussed.

2. *Spherical Trigonometry*, six weeks, followed by advanced *Algebra*, twelve weeks. The more difficult parts of advanced *Algebra*, omitted in this course, are considered in course 6. Freshman year, second semester, Monday, Tuesday and Thursday. Sections at 7:30, 8:30 and 10 A. M.

Courses 1 and 2 are required of all candidates for degrees.

3. *Analytic Geometry*.—Sophomore year, first semester, four hours per week, Friday excepted, 11 A. M.

4. *Differential Calculus*.—Sophomore year, four hours per week, Friday excepted, 11 A. M.

3a. *Analytic Geometry and Differential Calculus*.—Sophomore year, first semester, five hours per week, 7:30 A. M.

4a. *Differential and Integral Calculus*.—Sophomore year, second semester, five hours per week, 7:30 A. M.

Courses 3a and 4a are intended primarily for students in Physics and Engineering, and are taught by Professor Biefeld.

5. *Integral Calculus*.—Junior year, first semester, four hours per week, Friday excepted, 10 A. M.

6. *Theory of Equations*.—Open to Juniors and Seniors, Second semester, Monday, Tuesday and Thursday, 10 A. M.

7. *Advanced Calculus*.—Senior year, first semester, four hours per week, Friday excepted, 11 A. M.

8. *Differential Equations*.—Open to Juniors and Seniors, Second semester, four hours per week, Friday excepted, 11 A. M.

## GREEK.

PROFESSOR COLWELL.

(Office hours, 8:30 A. M. daily, except Wednesday.)

The following courses are offered:

1. (a) *Lysias*.—Selected orations, with history of Athens under the Thirty Tyrants and the Restoration of the Democracy. (b) *Thucydides*.—Selections, with history of the Pelo-

ponnesian War. Reading at sight from Lysias, Lucian, and the New Testament. Freshman year, first semester, four hours, Wednesday excepted, 10 A. M.

2. (a) *Thucydides*.—Continuation of course 1. (b) *Hommer*. Selections from the Iliad, with sight reading from the Odyssey. Freshman year, second semester, four hours, Wednesday excepted, 10 A. M.

3. (a) *Demosthenes*.—Selected orations, usually the Philipics and Olynthiacs. (b) *Herodotus*.—Selections. Sight reading from Demosthenes, Herodotus, Diodorus Siculus, Xenophon, and the New Testament. Sophomore year, first semester, four hours, Wednesday excepted, 7:30 A. M.

4. (a) *Herodotus*.—Continuation of course 3. (b) *Plato*.—The Apology and Crito, with selections from the Phaedo. Sight reading from the Memorabilia of Xenophon. Sophomore year, second semester, four hours, Wednesday excepted, 7:30 A. M.

Courses 1-4 are required of all candidates for the degree of Bachelor of Arts and of candidates for the degree of Bachelor of Philosophy who make Greek their major language.

5. *Tragedy*.—Aeschylus, Sophocles, or Euripides. Elective for those who have completed courses 1-4. First semester, four hours, Wednesday excepted, 8:30 A. M.

6. *Aristophanes*.—Elective for those who have completed courses 1-4. Second semester, Tuesday, Thursday, Friday, 1:30 P. M.

8. *New Testament*.—Elective for those who have had courses 1-4. Second semester, Tuesday, Thursday, Friday, 8:30 A. M.

## ROMANCE LANGUAGES.

PROFESSOR MCKIBBEN.

(Office hours, Wednesday 10:00 A. M., Friday 11:00 A. M.)

ASSISTANT PROFESSOR OEBRECHT.

MARY L. MCKIBBEN.

This department offers opportunity of studying French, Italian and Spanish. Its aims are: (1) The acquisition of a

reading knowledge of the foreign language; (2) linguistic training; (3) introduction to the foreign literature and life.

The method employed includes the following features: Simultaneous beginning of grammar and translation; gradual advance to the new with frequent practice upon the old; the mastery of principles by noting and classifying examples found in the texts studied.

*French.*—

Of the courses enumerated below, applicants for the degree of Bachelor of Arts are required to take at least course 1. For the degree of Bachelor of Science, courses 1 and 2 are required. For the Degree of Bachelor of Philosophy, students who choose French as their major language upon entrance must take courses 1 and 2 and at least two four-hour courses in addition. Aside from these requirements the various courses are open as electives to students in all departments, with courses 1 and 2 in order prerequisite to any of the advanced courses. At the option of the student a year of Spanish will be accepted as the equivalent of a year of French.

1. Forms, translation, written exercises, grammar, with 80 pages of simple translation. A course for beginners. Freshman year, first semester, four hours, Wednesday excepted, two sections, 8:30 A. M., and 1:30 P. M. Repeated in second semester.

2. Continuation of the work of course 1. Grammar, with written and oral work in composition. Translation of 150 pages of prose and verse. Freshman year, second semester, four hours, Wednesday excepted, two sections, 8:30 A. M., and 1:30 P. M.

3. Grammar reviewed, with composition exercises and dictation. Erckmann-Chatrion's *Conscrit de 1813*, and *Waterloo*. Sophomore year, first semester, four hours, Wednesday excepted, 1:30 P. M.

4. Review of Grammar, forms and syntax, with composition. Nineteenth century prose and poetry. Sophomore year, second semester, four hours, Wednesday excepted, 1:30 P. M.

5. Composition and Dictation. First semester, Monday, Tuesday and Wednesday, 7:30 A. M.



6. Modern Comedies, rapid reading and summaries in French. Second semester, Wednesday, Thursday and Friday, 7:30 A. M.

7. Scientific French. Dike's Scientific French Reader. First semester, Wednesday, 1:30 P. M.

8. Scientific French. Continuation of course 7. Second semester, Wednesday, 1:30 P. M.

9-10. A course intended to afford advanced students practice in the oral use of the language by the careful study of some play, to be presented by the class. Maximum credit, two hours, time to be arranged.

11. French Literary History. Faguet, Lemaitre, or Pellissier. Open to students who have had two years of French. First semester, three hours, time to be arranged.

12. French Philology, or Old French. Open to students who have had Freshman Latin. Three hours, time and text to be arranged. Second semester.

*Italian.*—

2. Grandgent's Grammar. Prose and verse of the Risorgimento. Outline of the history of Italian Literature. The forms of the language are learned and practiced in exercises, written and oral and in translation. Elective in all courses. Second semester, Tuesday, Wednesday, Thursday and Friday, 10 A. M.

3. Modern Prose and Poetry. First semester, Tuesday, Wednesday, Thursday and Friday 2:30 P. M.

*Spanish.*—

1. Garner's Grammar and Ramsey's Reader. The forms of the language are learned and practiced in written and oral exercises and in translation. Recent prose and verse. Sight reading of business correspondence. Open as an elective to students in all courses. First semester, four hours, Wednesday excepted, 7:30 A. M.

2. Cervantes, or modern prose. Second semester, four hours, Wednesday excepted, 7:30 A. M.

The courses in Spanish and Italian, while intended as electives for upper classmen, may be taken by any who, in the judgment of the Instructor, can carry them with profit.

## RHETORIC AND ENGLISH LITERATURE.

PROFESSOR WILLIAMS.

(Office hours, Tuesday and Thursday, 10:00 A. M.)

ASSISTANT PROFESSOR PENCE.

Throughout the course, the study of Rhetoric is pursued in combination with the study of literature, American and English. Instruction is given by text-books and notes. Themes are required throughout the course. Students are made acquainted with the principles of literary criticism, and encouraged to develop intelligent appreciation of the best that has been thought and written from Caedmon to the present time. A number of electives are offered during the Junior and Senior years. All members of the Senior Class are required to appear in public exhibitions during the winter, young men with orations and young women with essays.

The following courses are given:

1. *Theme-writing and Structure of English Prose.*—Text-books, Scott and Denny's *Paragraph Writing* and the *Atlantic Monthly* for October, November and December. First semester, Tuesday, Wednesday and Friday, 8:30 A. M. and 2:30 P. M.

2. *Rhetoric.*—A study of formal Rhetoric and of specimen selections from literature. Second semester, Tuesday, Wednesday and Friday, 8:30 A. M. and 2:30 P. M.

3. *English Literature.*—Lewis, *Beginnings of English Literature*, Chaucer, *Prologue and Knight's Tale*, Spenser, *The Faery Queen*, Book I, Thayer's *Best Elizabethan Plays*. Notes on the Development of the Drama. Junior year, first semester, Monday, Wednesday and Friday, 11 A. M.

4. *English Literature.*—The text-book used is Long's, supplemented by selected readings and by notes on special topics.

Junior year, second semester, Monday, Wednesday and Friday, 11 A. M.

5. *Crawshaw's The Interpretation of Literature. Essays and Orations.* Senior year, first semester, Monday 10 A. M.

6. *Shakespeare.*—Selected plays. Second semester, Tuesday and Thursday, 7:30 A. M.

7. *Anglo-Saxon.*—Bright's *Anglo-Saxon Reader.* The language is studied with reference to its historical relations to modern English and German. First semester, Monday, Tuesday and Thursday, 1:30 P. M. Professor Chamberlin.

8. *The English Novel.* Stoddard's *Evolution of the English Novel.* Open to Juniors and Seniors. Second semester, three or five hours credit, Monday, Wednesday and Friday, 11 A. M.

9. *A Study of Prose Fiction.*—The text-book used is Perry's, which is supplemented by selected readings. First semester, Tuesday and Thursday, 11 A. M.

10. *Later American Writers.*—The text-book is Vedder's, supplemented by selected readings and by notes. Second semester, Tuesday and Thursday, 11 A. M.

11. *Elizabethan Drama.*—Selected plays of Marlowe, Lyly and Shakespeare. First semester, Tuesday and Thursday, 8:30 A. M.

12. *Anglo-Saxon Poetry.*—Beowulf. Second semester, Monday, Tuesday and Thursday, 1:30 P. M. Professor Chamberlin.

13. *Poetics.*—Gummere's "Handbook with Selections for Study." First semester, Tuesday and Thursday, 7:30 A. M.

14. *Literary Interpretation.*—The text-book used is Winchester's, which is accompanied by a study of masterpieces in prose and verse. Second semester, Wednesday and Friday, 10 A. M.

15. *The Short Story.*—Study of the technique of the short story; critical analysis of the best modern writers and original work. First semester, Monday and Wednesday 10 A. M.

17. *The Teaching of English.* A course for those who expect to teach English in high schools. Designed especially for Juniors and Seniors and open to no one below these classes without express permission from the instructor. First semester, Wednesday and Friday, 11 a. m.

18. *Advanced Theme-Writing.*—A course dealing especially with Exposition. Special attention is given to the criticism of original themes. Prerequisite, course 1. Second semester, two recitations per week, hours to be arranged.

### LATIN LANGUAGE AND LITERATURE.

PROFESSOR JOHNSON.

(Office hours, Tuesday and Friday, 2:30 P. M.)

ASSISTANT PROFESSOR PENCE.

Of the following courses, numbers 1, 2, 3 and 4 are required of all applicants for the degree of Bachelor of Arts, but courses 5 and 6 may be substituted for 3 and 4, with the approval of the Instructor. Applicants for the degree of Bachelor of Philosophy who elect the Latin group (Group C1) are required to take four semesters of work in the department, four hours per week, beginning with courses 1 and 2. For the remaining two semesters, the student may select between courses 3 and 4, and courses 5 and 6. All courses in the department are open as electives to any student who, in the judgment of the Instructor, is sufficiently prepared to pursue the work with profit, but courses 1 and 2 must in all cases precede any of the more advanced work except courses 11 and 12, on *Roman Life*, which are open to all college students.

1. (a) *Cicero*.—De Senectute and De Amicitia, one to be assigned for translation and the other employed for training in oral reading of the Latin text. (b) *Livy*.—Books XXI-XXII, or selections from the earlier books. Review of Latin Syntax. Four hours per week, Thursday excepted. First semester, two sections, 7:30 and 11 a. m.

2. *Odes and Epodes of Horace*.—Sight reading from the Satires. Outlines of History of Roman Poetry. Four hours

per week, Thursday excepted. Second semester, two sections, 7:30 and 11 A. M.

3. *The Roman Stage*.—Two plays of Plautus and one of Terence. Notes on the history of the Ancient Drama. Four hours per week, Thursday excepted. First semester, 8:30 A. M.

4. *Rhetoric and Literary Criticism of the Romans*.—This course is based upon Books X and XII of Quintilian, with collateral work in the rhetorical writings of Cicero, the Epistles of Horace and the Dialogus of Tacitus. The relation of Greek and Roman ideas to present-day problems of Rhetoric and Criticism is emphasized. Four hours per week, Thursday excepted, second semester, 8:30 A. M.

5. *The Roman Epigram and Elegy*.—Selections from Martial, and the Elegiac poets. First semester, four hours per week, Thursday excepted, 10 A. M.

6. *The Annals of Tacitus and Letters of Cicero and Pliny*.—A study of Roman politics and society at the time of the downfall of the Republic and the establishment of the Empire. In 1913, the assigned reading will be chiefly from Tacitus; in 1914, from Cicero and Pliny. Second semester, four hours per week, Thursday excepted, 10 A. M.

7 and 8. *Virgil*.—A study of the poems of Virgil and their place in the History of Literature from points of view which cannot be emphasized in the preparatory school. The two semesters are not open to election separately. Monday and Wednesday. First and second semesters, 1:30 P. M.

9 and 10. *Latin Writing*.—This work aims to secure an improvement in the student's power to analyze and appreciate the style of classical Latin authors. It is accompanied by the study of certain problems of Latin Grammar from the historical point of view. The two semesters are not open to election separately. First and second semesters, Tuesday and Friday, 1:30 P. M.

11 and 12. *Roman Life*.—An outline of the more important phases of Roman character and achievement. Ability to read Latin is not prerequisite, and the courses are open to all college

students. The work is based on Johnston's *Roman Life*, with lectures and collateral reading. Monday and Wednesday, 2:30 P. M.

### GERMAN LANGUAGE AND LITERATURE.

PROFESSOR CHAMBERLIN.

(Office hours, Tuesday and Thursday, 11 A. M.)

ASSISTANT PROFESSOR ODEBRECHT.

DR. HUNDLEY.

German is treated as a living language, to be studied in its spoken as well as its written forms. The study of the language is made the occasion of becoming acquainted with the German people in many of their cultural relations. The German department of the Library contains several hundred volumes of the best reference works and of the choicest works of literature, including the Kursehner collection of the national literature, and a complete set of the publications of the Modern Language Association of America. Two courses in Anglo-Saxon are given by the German department, in connection with the department of English.

1-2. *Elementary Courses*.—Essentials of grammar; practice in pronouncing and translating; reproduction in German of simple English expressions; about 150 pages of reading, including a few of the most familiar lyrics. Both semesters, four hours, Wednesday excepted, 10 A. M. and 1:30 P. M.

3. *Minor Fiction*.—Selections from such authors as Wildenbruch, Storm, and Baumbach, oral and written exercises in the foreign idiom; systematic study of grammatical principles, word composition and derivation. First semester, four hours, Wednesday excepted, 8:30 and 10 A. M. Prerequisite, courses 1 and 2.

4. *Dramatic and Epic Poetry*.—Critical study of Schiller's *Wilhelm Tell*, *Maria Stuart*, or *Die Jungfrau von Orleans*, and Goethe's *Hermann und Dorothea*; principles of the drama; reviews and themes in German. Composition. Second semester, same hours as course 3. Prerequisite, courses 1-3, or courses 1-2 and 5.

5. *Modern Fiction*.—Rapid reading of two or three modern novels, with little translation, but with discussion in German of the essential points. Study of idiomatic expressions. Composition. First semester, Monday, Wednesday and Friday, 7:30 A. M. Prerequisite, courses 1-3.

6. *Continuation of Course 5*.—Reading from fiction, history, and science, selected for variety of style and contents. Second semester, same hours as course 5. May follow course 4 or 5.

7 and 8. *German Culture and Literature of the Classical Period*.—A study of social and literary conditions in Germany in the latter half of the Eighteenth Century, as reflected in the works of Lessing, Schiller and Goethe. Course seven includes an interpretation of Lessing's chief critical and dramatic works, and of Schiller's *Wallenstein*. Course eight takes up the main incidents and tendencies of Goethe's life, interpreted by his own prose and poetical works, including *Faust* Part I, with selections from Part II. Both semesters, Monday, Wednesday and Friday, 8:30 A. M. Prerequisite, courses 1-4 or 5-6.

9. *Survey of German Literature*.—Thomas's *German Anthology* and Müller's *German Classics*. Outside readings on special topics. First semester, two hours per week, Tuesday and Thursday, 8:30 A. M. Follows course 6, 7 or 8.

10. *Continuation of Course 9*.—German Literature beginning with Luther. May be taken separately with the same prerequisites as course 9; same hours as course 9.

11 and 12. *German Romanticism and Realism of the Nineteenth Century*.—Dramas and fiction selected from Kleist, Grillparzer, Hebbel, Hauptmann, Freytag, Scheffel, Frenssen, etc. May be given in alternate years, if there is demand, as parallel courses to 7 and 8, or may be taken by advanced students for honor credit. Same hours and prerequisites as for 7 and 8.

## HISTORY.

PROFESSOR GOODELL.

(Office hours, 10:00 A. M. daily.)

MR. KULL.

(Office hours, 10:00 A. M. Wednesday and Friday.)

It will be the purpose in History to supplement the lectures and recitations with assigned readings and preparation of papers. No prerequisites are assigned for the advanced courses in European History, but course 1-2 is highly desirable.

1-2. *Mediaeval and Modern History*.—A general survey of European History from the decline of Rome to the close of the nineteenth century. Epochal events and dominant personalities will be studied, and special emphasis given to the institutional development and life. In introduction, the various contributions to Mediaeval Europe—Greek, Roman, Christian and German—are developed. Rise of the Papacy; mediaeval relations of church and state; feudalism; rise of modern nationalities; mediaeval and renaissance life and culture; rise and spread of Protestantism; the old regime in France; the French Revolution and the spread of its principles through the nineteenth century—these suggest the points of emphasis. Four hours, Friday excepted. Both semesters. Two sections, 1:30 and 2:30 P. M.

3-4. *American Political History*.—This is a course in general United States History running throughout the year. The period is that covered by our national life—beginning with 1783 and coming down to the close of the nineteenth century. Monday, Wednesday and Friday, 7:30 A. M.

5-6. *English History*.—Throughout the year. A course in general English History from the Saxon period to the close of the nineteenth century. The first semester covers the formative period of the English constitution and brings the course to the Tudor period. Special attention will be given in 1913-1914 to social England. The course is of special value to students in English Literature, and prospective law students. Monday, Wednesday and Friday, 8:30 A. M. Given in 1913-1914 and alternate years.



7. *French Revolution and the Napoleonic Era.*—A study is made of the transition from the ancient regime to the period of the Revolution, its tendencies and dominating personalities. Intensive study of the Revolution is made and its subsequent effect upon Europe. A study is made of Napoleon as a conqueror and a reformer. First semester. Monday, Wednesday and Friday, 8:30 A. M. Given in 1914-1915 and in alternate years.

8. *Europe in the Nineteenth Century.*—Nationality and constitutionalism are the dominant principles of the nineteenth century, and suggest the scheme of the course. Especially desirable for International Law. Second semester, Monday, Wednesday and Friday, 8:30 A. M. Given in 1914-1915 and in alternate years.

## POLITICAL SCIENCE

PROFESSOR GODELL.

(Office hours, 10:00 A. M. daily.)

2. *American Government.*—The practical workings of the various governments, local and national, will receive particular attention. The rise of party machinery will be studied, together with the development of popular government, including such questions as the initiative, referendum and recall; the extension of the suffrage; election of United States Senators by popular vote; general tendencies in state and national legislation, and other matters of equal interest. Second semester, four hours. Friday excepted, 8:30 A. M.

3. *Theories of State and Government.*—An Introduction to the principles of Political Science. Some of the questions discussed are the following: nature of the State; nature of sovereignty; origin of the State; forms of government; distribution of the powers of government; proper organization of the legislative department; same for executive and judicial departments, etc. No prerequisite, but a thorough knowledge of History and Civics is specially desirable. First semester, four hours, Friday excepted, 8:30 A. M.

4. *International Law*.—A study of the general principles of the subject. The recent tendency of the United States to mingle in the affairs of the Orient gives the subject of International Law a new interest to every intelligent American. We can no longer maintain our policy of isolation,—we are a World Power whether we like it or not. It is important, therefore, that we become familiar with the principles governing nations in their intercourse with each other. Special attention will be given to the recent developments in the law of war, and the rights and duties of neutrality. Although not required, History 8 is very desirable as a preparation for this course. Second semester, Monday, Wednesday and Friday, 11 A. M.

5. *Political Economy*.—An introduction to the study of Economics. The aim will be to give a fair amount of time to both the principles and the problems of Economics. Thus, theories of value, price, rent, wages, interest, profits, etc., will be carefully considered. In connection with these subjects the problems of the trust, business organization, labor unions, the closed shop, minimum wage, free trade and protection, questions of money and banking, etc., will receive due consideration. First semester, four hours, Friday excepted., 8:30 A. M.

6. *Money and Banking*.—An advanced course in Economics. Different systems of banking in this country and abroad will be studied. Such topics as a central bank; branch banking; asset currency; nature and value of money; influence of credit on prices; need of an elastic currency; fiat money, etc., will receive particular attention. Course 5 is prerequisite. Four hours, Friday excepted, 8:30 A. M. Will be offered in 1913-1914 and in alternate years.

7. *Constitutional Law*.—A three-hour course running through the semester. A text will be used for the leading principles, supplemented by a study of the leading cases before the United States Supreme Court. The course will not aim to be technical farther than is necessary. It is aimed to supplement the work in course 2, which deals with the practical working of

our government, while this will deal with the theory. Open to all. Monday, Wednesday and Friday, 1:30 P. M.

9. *The Government of Cities*.—Mainly a study of the problems of the American city will be considered, but continual reference will be made to European practice and experience. The following are some of the points emphasized: city government by commission; the relation of the city to the state; the city electorate; city parties and their relations to the state and national parties, etc. Monday, Wednesday and Friday, 11 A. M.

10. *Sociology*.—A study of society mainly as it is today, though some attention will be given to the evolution of certain social institutions, as the evolution of marriage, the historical development of the family, etc. Other questions, such as the problem of immigration, crime, pauperism, socialism, the race question, etc., will receive due attention. Monday, Wednesday and Friday, 7:30 A. M. Will be given in 1912-1913 and in alternate years.

## GEOLOGY.

PROFESSOR CARNEY.

(Absent on leave, 1912-1913.)

(Office hours, 7:30 A. M. daily.)

This department, which occupies the entire third floor of Barney Memorial Hall, is unusually well equipped with maps, relief models, minerals, rock specimens, and about 5,000 lantern slides. The laboratories are commodious, and fairly complete in appointments. Its library and well-lighted reading room, twenty-seven by thirty feet, places the G. K. Gilbert collection of books where it can be of most use to students; all the American periodicals bearing on geology and geography, as well as representative British, Scottish, German, and French magazines come regularly to the department library.

In its instruction the department places much emphasis on field work. We have within easy reach the formations from the Silurian to the Pennsylvanian inclusive. The topography where the Waverly and Mississippian rocks outcrop, and this is in the

immediate region of Granville, affords excellent illustrations for studies in physiography. The conditions are also specially favorable for studies in glacial geology, since we have close at hand the drift of different ice invasions, and are within a few miles of unglaciated territory.

Students desiring only a general course in geology are advised to take 3-4; the course in Geographic Influences is also of cultural value.

*The fee in each course taken with field or laboratory work, except 8, is one dollar.*

1. *Physiography*.—First semester, Monday and Thursday, 8:30 A. M. Text, Salisbury's *Physiography*; library work; three all day field trips, and eight laboratory periods. Four credits; or, without the field and laboratory work, two credits.

2. *Geography of North America*.—Second semester, Monday and Friday, 1:30. Lectures and collateral reading. No prerequisites. Two credits.

Among the topics considered in this course are: The influences which the relief features and climate of the continent have had on its history; the development and shifting of particular industries; some phases of conservation; the distribution of population; inland waterways from the viewpoint of regional geography.

3-4. *General Geology*.—Both semesters, Tuesday and Thursday, 11 A. M. Lectures; three all day field trips, and eight laboratory periods. Four credits; or, without the field and laboratory work, two credits.

5-6. *Geographic Influences*.—Both semesters, two divisions, Monday and Wednesday at 11 A. M., and Tuesday and Thursday, 10 A. M. Types of geographic influences. Geographic factors in the habitats of primitive peoples; in the development of ethnic groups; in the growth of ideas concerning the size and shape of the earth, and in map-making; in the social, industrial, and political activities of advanced peoples; influences of topographic and climatic environment on mental and moral qualities. Lectures and assigned readings. Either semester's work may be

elected independent of the other. Three credits; or, without the special library work, two credits.

7. *Economic Geology*.—First semester, hours to be arranged. Text, Ries' *Economic Geology of the United States*. Prerequisites: Engineering 1, Chemistry 1-4, Physics 1-2, Geology 3-4. Two credits.

[8. *Crystallography and Mineralogy*.—Second semester, 7:30 A. M., Fridays excepted. Fee, \$3.00. Three credits.]

9-10. *Investigation*.—Both semesters. For advanced students. Hours and credits arranged.

11-12. *Geological Literature*.—Both semesters. Prerequisite, Geology 2, or 3-4, or 5-6, and ability to read either German or French. A reading knowledge of Spanish and Italian is of advantage in this course. Meets once a week to report on assigned reading. Fee, \$1.00. Two credits.

## CIVIL ENGINEERING.

ACTING PROFESSOR JOHNSON.

(Office hours, 11 A. M. Wednesday and Friday.)

In field work the classes are divided into parties with just a sufficient number to do the required work. By rotation each member of the class becomes familiar with the duties of each position and with every different instrument used. A full set of notes of the work done by the party is kept by each member. The method of instruction in this department is largely by means of text-books and recitations, supplemented by lectures and individual instruction in field and office work. A liberal use is made of current engineering literature. In the courses in drawing the main object is to give such a training as will meet the needs of the engineer as fully as possible.

The following courses are offered:

1-2. *Mechanical Drawing*.—Use and care of drawing instruments, lettering, exercises in projection, and simple working drawings. Prerequisite, Preparatory Mathematics. Both semesters, two hours, Monday, 2:30-4:30; Wednesday, 1:30-3:30.

Fee, \$1.00. Additional hours may be assigned to those desiring a more extended course.

3. *Descriptive Geometry*.—A study of the representation of lines, surfaces, solids, tangencies, intersections, and developments, with original problems. Recitations, lectures, and drawing. Prerequisite, course 1. First semester, four hours, Friday excepted, 10-12 A. M. Fee, \$1.00.

4. *Plane Surveying*.—An elementary study of surveying methods and instruments. Use of tape, chain, compass, level, transit. Adjustments. Lectures, recitations, problems, field work and platting. Prerequisite, course 1 and Mathematics 1. Second semester, four hours, Friday excepted, 1:30-3:30. Fee, \$2.00.

5. *Railroad Surveying and Earth-work*.—Problems attending the location and construction of railways. Transition curves, computation of earth-work, platting, profiles and construction of maps. This course will alternate with course 11. Prerequisite, course 4. First semester, four hours, Friday excepted, 1:30-3:30. Fee, \$2.00.

6. *Railroad Engineering*.—The economic theory of location is studied for six weeks. This is followed by a preliminary survey of a railroad several miles in length, with preliminary map, profile and estimates; location survey, profile and cross sectioning. A location map is made, earth-work computed, estimate of haul and cost of line. A map is also made of a railroad station grounds, showing industries, etc. Prerequisite, course 5. Second semester, three credits, hours to be arranged.

7. *Applied Mechanics*.—Statics, with illustrative examples stresses in beams, moments of inertia; dynamics, strength of beams, girders and shafts. The principles of mechanics are studied with reference to their application to engineering. Mathematics 4 and Physics 1 are prerequisite. First semester, four hours, Friday excepted, 8:30 A. M.

8. *Applied Mechanics*.—A continuation of course 7. Second semester, four hours, Friday excepted, 10 A. M.

9. *Analysis of Structures*.—Determination of stresses in roof and bridge trusses by graphical and analytical methods.

Prerequisite, course 8, Mathematics 4, Physics 1. First semester, Tuesday and Thursday, 7:30 A. M., with laboratory periods to be assigned. Four credits. Fee, \$1.

10. *Roof and Bridge Design*.—A continuation of course 9. Design of actual roof and bridge trusses, and preparation of working drawings. Checking and discussion of working drawings. The department is provided with a large collection of such drawings, presented by railroads, structural iron companies and city engineers. Prerequisite, courses 8 and 9. Fee, \$1.00. Hours and credits as in course 9.

11. *Topographical Surveying and Mapping*.—The methods of conducting topographical surveys are taken up. Each party makes a complete topographical survey of a certain tract, employing plane table, stadia, transit and rectangular methods. The area is computed and a map is made showing all topographical features. Alternates with course 5. Prerequisite, course 4. First semester, four hours, Friday excepted, 1:30-3:30. Fee, \$2.00.

12. *Cement Testing*.—A study of the manufacture, properties and testing of hydraulic cements and mortars. Each student makes all the standard tests in the cement laboratory. Second semester, Wednesday, 7:30 A. M., laboratory hours to be assigned. Fee, \$2.00.

13. *Highway Construction and Maintenance*.—A study is made of the methods and materials necessary to maintain streets and highways in city and country. Prerequisite, courses 1 and 4. First semester, Monday 7:30 A. M.

14. *Hydraulics*.—A study of hydrostatics and hydrokinetics, pressure in pipes and reservoirs, flow of water through orifices and pipes, and retaining walls. Prerequisite, courses 7 and 8. Second semester, two credits. Hours to be assigned.

## CHEMISTRY.

PROFESSOR BRUMBACK.

(Office hours, 10 A. M., Monday, Wednesday and Friday.)

MISS SEFTON.

*General Chemistry*.—Arranged for college students who have never studied the subject. Offered as an alternative with Chemistry 3-4 to students who present Chemistry for entrance. Required of Scientific students who do not present the subject for entrance. Prerequisite, preparatory Physics. Fee, \$4.00. Four periods per week throughout the year. Monday and Wednesday 11 a. m., Tuesday and Thursday 10-12 a. m.

3-4. *Qualitative Analysis*.—Required of Scientific students who present Chemistry for entrance and who do not elect Chemistry 1-2 instead. Recommended to all who have had one year in Chemistry. Prerequisite, one year of Physics and Chemistry. Two laboratory periods per week through the year. Fee \$4.00. Tuesday and Friday, 10-12 a. m.

5-6. *Quantitative Analysis*.—Must be accompanied by course 7-8. Prerequisite, Chemistry 1-2 or 3-4. Fee, \$4.00. Three laboratory periods per week for the year. Monday, Wednesday and Friday, 1:30-3:30 p. m. or 2:30-to 4:30 p. m. This course alternates with 9-10 and will be offered during the year 1913-1914.

7-8. *Chemical Arithmetic*.—Designed to accompany Chemistry 5-6. Prerequisite, Chemistry 1-2 or 3-4. One period per week through the year. Hour to be arranged.

9-10. *Organic Chemistry*.—Prerequisite, Chemistry 1-2 or 3-4. Fee, \$4.00. Two recitations and two laboratory periods per week through the year. Tuesday and Thursday 1:30 p. m., Monday and Friday 1:30-3:30 p. m. This course alternates with 5-6 and will not be offered in 1913-1914.

11-12. *Inorganic Preparations*.—Students may register for either semester or both. Two to five credits. Prerequisite, one year of Chemistry. Fee, \$4.00. Daily 7:30-9:30.

13-14. *Advanced Quantitative Analysis*.—Students may register for either semester or both. Two to five credits. Prerequisite, Chemistry 5-8. Fee, \$4.00. Hours to be arranged.



15-16. *Chemical Journals*.—Students may register for either semester or both. Meeting once per week to review and discuss current Chemical literature. Open only to Juniors and Seniors who have had one year or more of Chemistry. Two credits. Hour to be arranged.

## ZOOLOGY.

PROFESSOR COGHILL.

(Office hours, 10 A. M. Monday and Friday.)

In the election of studies in Zoology students are advised that courses 1, 2, 12, 15 and 16 are adapted to the general needs of all students; 7 and 10 are recommended as preparatory to sociology, psychology and pedagogy; 3, 4, 5, 6, and 8 are planned more particularly to meet the needs of students who are anticipating the study of medicine.

1-2. *General Biology*.—This course is given jointly by the departments of zoology and botany and is also known as Botany 1 and 2. It is designed to illustrate the elementary general principles of biology in both the animal and the plant kingdoms. Three credits. Fee, \$2.50 for each semester. Lectures at 1:30 on Wednesday, laboratory 1:30 to 3:30 Tuesday and Thursday. Students who have had good courses in elementary human physiology with laboratory exercises may sometimes be admitted to the second semester's work without the first; but this is not advised and will be permitted only by special advance arrangement with the instructors.

3. *Invertebrate Zoology*.—Hegner's "Introduction to Zoology" is supplemented with informal lectures. Prerequisite, courses 1 and 2 or their equivalent. First semester. Four credits. Fee, \$3.00. Lectures Tuesday and Thursday at 11; laboratory, Wednesday and Friday, 2:30 to 4:30.

4. *Vertebrate Zoology*.—Continuation of course 3. The Thursday's lectures of this course are identical with the lectures of course 12. The Tuesday's lectures and all the laboratory work are upon comparative anatomy and embryology of verte-

brates and are planned particularly for the prospective medical student. Hours as in course 3.

5. *General Histology*.—Prerequisite, course 4. First semester. Three credits. Fee, \$3.00. Lectures, Tuesday at 8:30; laboratory, Wednesday and Friday, 7:30 to 9:30. Offered for 1912-1913.

6. *Histology and Physiology*.—Laboratory studies of the microscopic structure of the digestive, excretory and vascular systems are supplemented with lectures upon the physiology of the organs under consideration. Prerequisite, course 5. Second semester. Three credits. Fee, \$3.00. Lectures, Tuesday at 8:30; laboratory, Wednesday and Friday, 7:30 to 9:30. Offered for 1912-1913.

7. *Neurology*.—A study of the development, structure and function of the nervous system of vertebrates with special reference to the central nervous system and sense organs of man. Prerequisite, courses 1 and 2. First semester. Three credits. Fee, \$3.00. Lectures, Thursday at 8:30; laboratory, Wednesday and Friday, 7:30 to 9:30. Offered for 1913-1914.

8. *Embryology*.—Laboratory studies upon the embryos of the frog, chick and pig, with reading and discussion of recent and current literature upon embryology and related subjects of biological theory. Prerequisite, course 5. Second semester. Three credits. Fee, \$3.00. Lectures, Thursday at 8:30; laboratory, Wednesday and Friday, 7:30 to 9:30. Offered for 1912-1913.

10. *Comparative Psychology*.—A biological consideration of psychological problems. Reading of recent literature on animal psychology and experiments upon nerve-muscle physiology and animal behavior. Prerequisite, course 7. Second semester. Three credits. Fee \$3.00. Lectures, Thursday at 8:30, laboratory, Wednesday and Friday, 7:30 to 9:30. Offered for 1913-1914.

12. *Ornithology*.—A study of the natural history, classification and behavior of birds. Eight laboratory exercises of two hours each and at least eight field trips. Second semester. Two

credits. Fee, \$2.00, payable to the instructor at the time of enrollment. Lectures, Thursday at 11:00; laboratory, Saturday, 8 to 10. Field trips arranged by consultation with the instructor.

13-14. *Advanced Zoology*.—A course on assigned problems, designed as an introduction to research. Primarily for graduate students and open for undergraduate election only in special cases. Hours and credits arranged individually.

17-18. *Eugenics*.—Open to Shepardson College Students who have had Botany or Zoology 1-2 or equivalent. Lectures, Monday at 2:30 P. M. Two credits for both semesters taken together.

19-20. *Personal Hygiene and Eugenics*.—For men of college rank. Lectures, Wednesday at 10 A. M. Two credits for both semesters taken together.

## PHYSICS.

PROFESSOR LAWTON.

(Office hours, 2:30 P. M., Tuesday and Thursday.) ....

ASSISTANT PROFESSOR COONS.

The courses in Physics are arranged for four classes of students. (1) Applicants for the degree of A. B., who desire to elect one or more courses in Physics will find courses 1-4 open to their election. (2) Applicants for the degree of B. S., who are taking their major work in other departments. Courses 1 and 2 are required. Courses 3-8, 11 and 12 are elective. (3) Applicants for the degree of B. S., who desire to take their major work in Physics. Courses 1-8 are required. (4) Students who desire to take a technical course in electrical or mechanical engineering. The best education for such engineers is one in which the liberal culture of a college course precedes the training of the technical school, but many cannot afford to spend the time to complete both the college and the technical courses. The Physics Group includes all the non-technical studies of the best technical schools, and its successful completion will fit a student to enter the third year of the technical school, and thus earn both the college and the engineering degrees in six years.

The following courses are offered:

A. *Elementary Physics*.—Lectures and recitations based upon Millikan and Gale. Prerequisite to all courses in Physics. Required of all B. S. students and elective for all A. B. and B. Ph. students who do not offer one year of entrance Physics. First semester, Monday, Wednesday and Friday, 11 A. M.

B. *Elementary Physics*.—Laboratory course based upon Millikan and Gale accompanying course A. Fee, \$2.00. First semester, Tuesday and Thursday, 10-12 A. M. or 1:30 to 3:30 P. M.

C. *Elementary Physics*.—A continuation of course A. Second semester, Monday, Wednesday and Friday, 11 A. M.

D. *Elementary Physics*.—Laboratory course accompanying course C. Fee, \$2.00. Second semester, Tuesday and Thursday, 10-12 A. M., or 1:30-3:30 P. M.

1. *General Physics*.—Lecture demonstrations and recitations covering the more important principles of Mechanics, Sound and Light. Three hours a week. Prerequisite, courses A-D or their equivalent. Required of candidates for B. S. degree, elective for A. B. and B. Ph., Sophomores, Juniors and Seniors. First semester, Tuesday, Wednesday, Friday, 8:30 A. M. Mathematics I must accompany or precede.

2. *General Physics*.—A continuation of course 1, covering Heat, Electricity and Magnetism. Prerequisite, course 1. Required of candidates for the B. S. degree, elective for A. B. and B. Ph., Sophomores, Juniors and Seniors. Second semester, Tuesday, Wednesday and Friday at 8:30 A. M.

3. *Mechanics, Molecular Physics, and Heat*.—Laboratory work based upon Millikan. Elective for all students who have taken courses 1-2. Fee, \$2.00. Four hours, Monday excepted, 7:30-9:30 A. M., or 1:30 to 3:30 P. M.

4. *Sound, Light, Electricity and Magnetism*.—Laboratory work covering some of the fundamental experiments in Sound, Light, Electricity and Magnetism. One recitation and three laboratory periods a week. Prerequisite, courses 1-3. Fee, \$2.00

Second semester, recitation Thursday, 7:30 A. M.; laboratory periods, Tuesday, Wednesday and Friday, 7:30-9:30 A. M.

5. *Experimental Physics*.—An advanced course in Electrical Measurements. Prerequisite, courses 1-4. Fee, \$2.00. First semester, Monday, Tuesday and Thursday, 1:30-3:30 P. M.

6. *Experimental Physics*.—An advanced course in Light consisting of measurements in Diffraction and Interference. Prerequisite, courses 1-4. Fee, \$2.00. Second semester, Monday, Tuesday and Thursday, 1:30-3:30 P. M.

7. *Theoretical Physics*.—A lecture course covering the Kinetic Theory and elementary Thermodynamics. Prerequisite, courses 1-4. First semester, Monday, Tuesday and Thursday, 11 A. M.

8. *Theoretical Physics*. A lecture course covering selected topics in Mechanics, Magnetism and Electricity which are treated from a mathematical standpoint. Prerequisite, courses 1-4. Second semester, Monday, Tuesday and Thursday, 11 A. M.

9-10. *Elements of Electrical Engineering*.—Lecture and laboratory work based upon Pender's "Electrical Engineering." Prerequisite, courses 1-5. Both semesters, lecture and recitation; Tuesday and Thursday, 1:30 P. M.; laboratory work, Wednesday and Friday, 1:30-3:30 P. M. Fee, \$2.00.

11. *History of Physics*.—Dealing with the development of Physics, previous to the nineteenth century, from an historical standpoint. Prerequisite, courses 1-2. First semester. Monday, 8:30 A. M.

12. *History of Physics*.—A continuation of course 11 dealing with the historical development of Physics from the beginning of the nineteenth century to the present time. Second semester. Monday, 8:30 A. M.

15-16. *Thesis in Physics*.—Elective for students in the Physics Group. Students who have shown ability to profit by such a course will be assigned some subject for original investigation or the repetition of some important classical experiment. Senior, first and second semester. One to five hours.

17-18. *Physical Basis of Music*.—Lecture demonstrations presenting the fundamental principles involved in the theory of music. Elective, without prerequisite for all students in the University. Required of students in the Conservatory of Music. First and second semesters, Monday, 2:30 P. M.

#### BOTANY.

PROFESSOR STICKNEY.

(Office hours, Tuesday and Thursday, 10:00 A. M.)

MISS DAVIES.

The work in the department of Botany is designed not only for the systematic development of that branch of science for the benefit of students who wish to teach or in any other way professionally devote themselves to it, but also to emphasize, through systematic training in observation and deduction, the broader and purely cultural side of the subject. Courses 1, 2, 9, 10, 11 and 12 are particularly designed for students interested in the cultural side of science. Courses 1-4, 9 and 11 have a special bearing upon pre-medical work; 1-2, 9 and 11 should be taken by all students interested in domestic science. The following courses are offered.

1 and 2. *General Biology*.—Given jointly by the departments of Botany and Zoology, and identical with Zoology 1 and 2. A study of the properties and activities of living substances, the general organization of living things, the evolution of structure and function, and adaptation to environment. Three hours through the year. Open to general election. Required for admission to all advanced courses in Botany, except where so specified. Fee, \$2.50 for each semester. Lecture, Wednesday at 1:30. Laboratory, Tuesday and Thursday, two sections, 1:30-2:30 and 2:30-4:30. Seminar 3:30-5:00.

3 and 4. *General Botany*.—Includes a very general survey of the plant kingdom, with a study of type forms from the lowest to the highest orders. Structure, development, reproduction and classification are considered from the standpoint of biology and evolution. Four hours through the year. Two hours of lecture and recitation (based on Campbell's University Text-

book of Botany) and two laboratory or field periods. Prerequisite, Botany 1 or 2 (both advised) or the equivalent. Fee, \$3.00. for each semester. Lectures, Tuesday and Thursday at 11. Laboratory, Wednesday and Friday, 2:30-4:30.

5. *Histology of Phanerogams*.—The study of the cells, tissues and organs of flowering plants. Special reference to the technique of microscopic study. Lectures, laboratory and library work. Three hours, first semester. Prerequisite, Botany 3 and 4. Fee, \$3.00. Lecture, Tuesday at 7:30. Laboratory hours to be arranged.

6. *Physiology and Ecology of Phanerogams*.—The study of the various activities of the higher plants, and of the relation of those activities to form and structure. Lecture, laboratory and field work. Three hours, second semester. Prerequisite, Botany 5. Fee, \$3.00. Lecture, Tuesday at 7:30. Laboratory hours to be arranged.

\*9. *Economic Fungi*.— A general treatment of the more important plant diseases, such as rust, smuts, moulds and mildews; of yeasts and fermentation organisms; of pathogenic bacteria; and of edible and poisonous mushrooms. Lectures, laboratory and thesis work. Two hours, first semester. Open to general election. Fee, \$1.00. Lecture, Friday, 7:30 A. M. Laboratory hours to be arranged.

\*10. *Introduction to Forestry*.—A consideration of the character, culture, protection and uses of the forest, and an introduction to the more important problems confronting the practical forester. The value of trees is emphasized, and the identification of the native trees is a part of the laboratory work. Lectures, laboratory, field, and thesis work. Two hours, second semester. Open to general election. Fee, \$1.00. Lecture Friday, 7:30 A. M. Laboratory two hours between 1:30 and 4:30 P. M.

\*11. *Bacteriology*.—A very general treatment of the structure and activities of bacteria, with emphasis placed on their relation to human life and interests. Among the specific subjects treated are soil fertility, sewage disposal, milk problems, butter and cheese making, disease of plants and animals, and

public health. Lectures, laboratory and thesis work. Three hours, first semester. Open to general election. Fee, \$1.00. Lecture, Friday, 7:30 A. M. Other hours to be arranged.

12. *Systematic Botany*.—The principles of classification from both historical and evolutionary standpoints, and a study of the classification of flowering plants. The identification of our native plants, and the use of the herbarium, forms a part of the laboratory work. Lectures, laboratory and thesis work. Three hours, second semester. Open to general election, but Botany 3-4 advised. Fee, \$2.00. Lecture, Tuesday at 8:30. Laboratory, Monday and Thursday, 7:30-8:30. Miss Davies.

\*14. *Bacteriology*.—A continuation of Course 11, giving special attention to the bacteriology of agriculture, dairying, sanitation and disease. Lectures, laboratory and seminary work. Three hours, second semester. Prerequisite, Botany 11. Fee, \$1.00. Hours to be arranged.

17-18. *Botanical Literature*.—Either or both semesters may be taken. Prerequisite, one year of Botany. Ability to read French, German, or Italian is desirable. One meeting each week for reports on assigned readings. Two credits. Fee, \$1.00.

19 and 20. *Advanced Botany*.—Special work on assigned problems, leading to research in Botany. This course may be taken only by competent students, and with the consent of the head of the department. Hours and credits arranged individually.

#### ASTRONOMY.

Office hours, 11:00 A. M. except Saturday.)

PROFESSOR BIEFELD.

The following courses are offered.

1. *Constellation Study*.—Elective for all college students. The class meets one evening a week for the study of the principal constellations, planets, star clusters and nebulae, aided by the use of the Equatorial. Students are required to write short papers on the mythology of the constellations. Text, Monthly Evening Sky Maps. First semester, one credit hour.



2. *Constellation Study Continued.*—In the work of the second semester the student papers are on the prominent persons in the history of Astronomy, supplemented by occasional talks on the history of Astronomy. Opportunity is given to limited number of students to study some of the constellations more in detail, with the aid of the Equatorial, using Webb's "Objects for Common Telescopes." Text and hours as in Course 1.

3. *Descriptive Astronomy.*—Elective for all students who have had college Trigonometry and preferably Analytics, and Physics 1. (Mechanics, Sound and Light.) The class meets four times a week for recitation, using the equipment of the Observatory for demonstration purposes. Text, Young's "Manual of Astronomy." First semester, four hours, Friday excepted.

4. *Practical Astronomy.*—Elective for all students who have had Astronomy 3 and Physics 3, laboratory work in mechanics being of special importance. This is practically a laboratory course, taking up the work as follows: (1) *Angle and time measurements.* Work with vernier, level, micrometer, astronomical clock, and chronograph, determining their constants and using them in simple measurements. (2) *The transit instrument.* Determination of the constants of the instrument. Wire intervals of micrometer, level constant, collimation constant, azimuth constant. Adjustment of the transit. Determination of time by eye and ear method, and by chronograph. Determination of longitude by various methods. (3) *The Zenith Telescope.* Determination of geographical longitude by Talcott method. (4) *The Transit as Meridian Circle.* Determination of nadir and equator point. Determination of right ascension and declination of stars differentially, within the accuracy of the fine circle. (5) *The Equatorial.* Adjustments. Determination of the apparent place of a heavenly body, directly, by means of finely divided hour and declination circles, or differentially, by means of position micrometer. Double star work. Determination of position-angle and distance, with position micrometer. One or two recitations per week, with three or two laboratory

periods accordingly. Second semester, four credits, hours to be arranged. Text, Campbell's "Practical Astronomy."

6. *Method of Least Squares*.—Second semester, two hours, time to be arranged. Text, Comstock's "Least Squares."

7-8. *Theoretical Astronomy*.—Elective for students who have had Courses 3 and 4 in Astronomy, and Mathematics through Calculus. Not offered during the present year. This will be a three or four hour course, details to be announced later.

### PEDAGOGY.

DEAN LOVERIDGE.

(Office hours, 12-12:30, 2:15-2:45.)

A large proportion of the graduates of Denison become teachers, and some training in Pedagogy is becoming an absolute necessity in the teacher's equipment. The following courses are therefore offered, with a view to giving the student a knowledge of the conduct of a school and of the methods of classroom instruction.

1. *Methods in Teaching*.—The practical conduct of a school and the presentation of work from the standpoint of the teacher, the pupil and the subject. First semester, Monday, Tuesday and Wednesday, 7:30 A. M.

2. *History of Education*.—A brief survey of the growth of school systems their methods and their ideals. Second semester Monday, Tuesday and Wednesday, 7:30 A. M.

3. *Methods in Teaching*.—This course deals with the theoretical side of school management and instruction, as course 1 with the practical. The ideals of present-day educators are emphasized. First semester, Monday, Tuesday and Wednesday, 7:30 A. M.

4. *History of Education*.—The course is based upon course 2, emphasizing cause and effect of present-day conditions in the historical survey of school systems, their methods and their ideals. Second semester, Monday, Tuesday and Wednesday, 7:30 A. M.

Courses 1 and 2 alternate with 3 and 4 respectively, from year to year.

## HISTORY OF ART.

DEAN LOVERIDGE.

(Office hours, 12-12:30, 2:15-2:45.)

The aim of these courses is not only to give the student a knowledge of the art history of the world and to fit him for foreign travel, which in this day has become so essential a factor in training and culture, but to lead him through a knowledge of the fundamental principles of aesthetics, to a truer appreciation of that which is good in the world of fine arts.

*The courses enumerated below are all elective for Juniors and Seniors.*

2. *Appreciation in Art.*—A one hour course aiming to train the student in the power to recognize and appreciate the essential qualities of excellence in the Fine Arts. Required of all Freshmen. Second semester, Thursday, 11 A. M. Text-book, *Appreciation of Art*, by Blanche G. Loveridge.

3. *History of Painting.*—The aim of this course is to study the history of painting by epochs. Beginning with the Gothic period of Italian Art a careful study is made of the gradual evolution of painting, through the Renaissance and Decadent Periods, laying special stress upon the works of those men in whom the High Renaissance spirit of Italian painting reached its culmination. Attention is then given to the other great national schools of art, with concluding lessons on American painting. First semester, four hours Friday excepted, 8:30 A. M. Text-books: *The World's Painters*, D. L. Hoyt; *Enjoyment of Art*, Carleton Noyes; *History of Painting*, John C. VanDyke.

4. *History of Architecture.*—After a general introduction to the history of architecture, and a consideration of the relations of architecture, sculpture and painting, the study is taken up by periods, beginning with the ancient Empire of Egypt and continuing through the Renaissance in Europe. A series of lessons follows on the Architecture of English Cathedrals. The

work concludes with a study of recent architecture in Europe and the United States. The aim is to give a general view of the historic styles of architecture and a thorough understanding of their essential elements. Second semester, four hours, Friday excepted, 8:30 A. M. Alternates with course 6. Given in 1914. Text-book, *History of Architecture*, A. D. F. Hamlin.

6. *History of Sculpture*.—As the history of sculpture is mainly a history of the influence of Greek art on later times, most of the term's study is devoted to Greece and a comparison of its sculpture with that of other countries and epochs. To this is added elementary instruction in the criticism of sculpture. Second semester, four hours, Friday excepted, 8:30 A. M. Alternates with course 4. Given in 1913. Text-book, *History of Sculpture*, Marquard and Frothingham.

#### MUSIC.

MR. WOOD.

(Office hours, 11:00 A. M., Tuesday and Thursday.)

Of the courses in the Theory and History of Music, some are offered largely for their general cultural value as a natural part of any liberal education. These courses are open without prerequisites to all students in the University. Course 17-18 also has no prerequisite, and is identical with Physics 17-18. The others are mainly of a more technical nature, and cannot be elected without necessary preparation. For details consult the announcement of the Conservatory of Music, in this catalogue.

Following is a list of courses for which college credit is granted:

1-2 *Appreciation of Music*.—One hour, both semesters. Monday, 8:30 A. M. Fee \$4.00 per semester.

3-4 *Elementary Theory*.—One hour, both semesters. Thursday, 8:30 A. M. Fee \$4.00 per semester.

5-6. *History of Music*.—Three hours, both semesters. Monday, Wednesday and Friday, 1:30 P. M. Fee \$12.00 per semester.

7-8. *Harmony*.—Three hours, both semesters. Monday, Wednesday and Friday, 11 A. M. Fee \$12.00 per semester.

9-10.—*Counterpoint*.—Three hours, both semesters. Monday, Wednesday, and Friday, 10 A. M. Fee \$12.00 per semester.

11-12. *Musical Form*.—Two hours both semesters. Tuesday and Thursday, 10 A. M. Fee \$8.00 per semester.

13-14.—*Strict Composition*.—Two hours both semesters. Tuesday and Friday, 8:30 A. M. Fee \$8.00 per semester.

15-16. *Free Composition*.—Two hours, both semesters. Tuesday and Thursday, 11 A. M. Fee \$8.00 per semester.

17-18. *Physical Basis of Music*.—One hour, both semesters. Monday, 2:30 P. M. No fee for college students.

### PUBLIC SPEAKING.

ASSISTANT PROFESSOR HOPPE.

This department affords training in Expression, by finding and applying principles for developing voice, mind and body in reading and speaking. The work is in no sense a mere coaching for occasions, but a personal, cultural training which aims at helping the student get command of his own creative powers. The subject is studied as an art, and through it the student is brought into touch with the principles governing all art. The following courses are offered as college electives:

1. *Fundamentals of Expression*.—This course is basic to all work done in the department. Problems in thinking and its expression in vocal modulation; criticism and practical platform work. First semester, two sections. Monday, Wednesday, and Thursday at 11 A. M. and 2:30 P. M.

2. *Principles of Expression*.—A continuation of course one. Lectures on qualities of voice and the language of the body. Individual work in gaining a vocabulary of delivery. Second semester, same hours as course 1.

3-4. *Effective Speaking*.—Also a beginners' course in Expression, dealing with the principles governing the spoken word, with special emphasis upon the platform work in speaking. Stu-

dents appear in extempore speeches and readings. First and second semesters. Monday, Tuesday, and Thursday at 1:30 P. M.

5. *Advanced Course in Expression*.—This is a second year course in the training of the dramatic instinct and the function of the imagination in speaking. The text used is Curry's "Imagination and Dramatic Instinct." Criticism given suited to needs of the student. Prerequisite 1 and 3. First semester. Monday and Wednesday, 10 A. M.

6. *Preparation and Delivery of Addresses*.—A second year course in speaking. Prerequisite 1 and 3. Lectures on the rhetoric of oratory; such problems handled as: how to talk extempore; how to prepare a speech; how to interest and hold an audience. Second semester. Monday and Wednesday at 10 A. M.

7-8. *Platform Art*.—Designed as a third year course and open only at discretion of the instructor to those who have had sufficient training and intend to enter some phase of public speaking work, such as teaching or the ministry. First and second semesters, two hours. Time to be arranged to suit student's schedules.

10. *Oral English*.—Open to all college students without any prerequisite. Especially designed for students who are specializing in English. Analysis and vocal interpretation of literature. (a) A study in the spirit of literature, directly related to the speaking voice. (b) "Bible Stories"; "The Idylls of the King." Second semester, two hours, to be arranged.

#### DRAWING.

MISS PARSONS.

1-2. A one hour course in Free-hand Drawing, running through the year. The studio is open for this work each morning of the college week, so that hours may be arranged individually to suit other schedules. The course is open to Freshmen in all groups, and receives full college credit. In groups in which a knowledge of drawing is especially important, the group

advisers are authorized to make this course obligatory at their discretion. Fee, \$1.50. Aside from this course credit may be obtained for work in drawing in the department, on the usual laboratory basis of a one hour credit for two hours' work.

### THEORY OF ART.

MISS PARSONS.

1-2. A lecture course dealing with the underlying principles of art expression. Designed especially for students in Art, but open as an elective to all college students, with credit towards degrees. Both semesters. Tuesday and Friday, 7:30 A. M.

### PHYSICAL TRAINING.

MR. LIVINGSTON.

Physical training is essential to sound scholarship. With this in view, a progressive course in systematic and rational physical training is given, covering a minimum of two hours per week in the Freshman and Sophomore years, for which four credits are allowed. A careful physical examination of each student is made at the beginning of the school year, of which an accurate record is kept, and advice is given to assist the individual in acquiring or maintaining a healthy body.

In place of the systematic class work, those students who desire to follow other plans of physical training, by devoting four forty-five minute periods per week thereto, may receive credits for the same, as above, subject to the discretion of the Director. A short talk on the theory and practice of some athletic or gymnasium exercise from the standpoint of observer and participant is given each week, and is open to all students of the University

An elective course in Physical Training is offered to Juniors and Seniors who desire a deeper knowledge of this subject than the work of under-classmen furnishes. This course includes lectures on the history, theory and practice of gymnastics and athletics; lighting, seating, heating and ventilating of school rooms; the taking of physical measurements and examination

of heart, lungs and senses; first aid to the injured and care of minor injuries. Ample opportunity is given for practice in handling gymnastic classes and athletic teams.

### Courses of Study

The unit of work is one hour of lecture or recitation work per week throughout a semester, and 124 units are required to complete a course. *In laboratory work a two-hour period counts as one unit.* Without special permission to do otherwise, each student is expected to take not less than thirteen nor more than eighteen units of work in any one semester. For aid in choosing electives, the student may consult the schedules for the respective semesters, which will be found at the end of the volume.

To insure the organization of classes in purely elective studies the student must announce his election of any given study to the Professor or Instructor concerned thirty days previous to the close of the preceding semester.

### THE GROUP SYSTEM.

To avoid the manifest evils of unregulated election a number of groups have been formed, each leading to one of the three degrees conferred by the University—Bachelor of Arts, Bachelor of Science, or Bachelor of Philosophy. Thus the student, upon entrance, elects first the degree for which he wishes to study and then makes his choice among the different groups leading to that degree. Each of these groups emphasizes some particular line of study, such as Botany, Physics, or History, for instance, and connects with this such other branches as are fitted to secure breadth and consistency in the result as a whole, together with a more extended knowledge of the field of study which forms the center of the group. A certain amount of free election is allowed in each group. After the student has made his choice of a group, all further matters affecting his schedule of studies, including his choice of free electives, must be determined in conference with his Faculty Adviser. At the head of



each group schedule, in the pages following, will be found the name of the Faculty Adviser for that group.

The numbers following names of studies indicate the number of the course, as described in the preceding statements of the various departments of study. Odd numbers always indicate first semester courses, even numbers those of the second semester.

### GROUP SCHEDULES.

#### A. FOR THE DEGREE OF BACHELOR OF ARTS.

Six groups lead to this degree, designated A1, A2, etc. The first is especially suited to students preparing to teach Greek or Latin, or do graduate work in those branches. The second gives opportunity for advanced work in physics, with related mathematics in connection with the ancient classics. In the third, some other branch of science may be similarly emphasized; in the fourth, history; in the fifth, pure mathematics, in the sixth, English.

The common requirements of all groups for this degree are Greek, courses 1-4; Latin, sixteen units, beginning with courses 1-2; Mathematics, courses 1-2; English, courses 1-5; Philosophy, courses 1, 3 and 4; History, courses 1-2; History of Art, 2; eight units of science, and at least four units each in French and German.

#### GROUP A1. ADVISER, PROFESSOR COLWELL.

*Freshman Year.*—English 1-2, Greek 1-2, Latin 1-2, Mathematics 1-2, Philosophy, 1, History of Art 2. These requirements give a total of fifteen hours each semester, giving an opportunity to elect from one to three hours additional work with consent of the Adviser.

*Sophomore Year.*—Greek 3-4, Latin 3-4 or 5-6, History 1-2, French or German, four hours each semester. A one or two-hour course each semester may be elected in addition, with consent of the Adviser.

*Junior Year.*—English 3-4, French or German, four hours each semester, Latin or Greek, two, three or four hours each

semester. History, or History of Art, three or four hours each semester. Free election, two to five hours each semester, depending upon the student's choice between alternative requirements just stated.

*Senior Year.*—English 5, Philosophy 3-4, Logic, History or Language, two to four hours. Free election, four to eleven hours each semester.

GROUP A2. ADVISER, PROFESSOR JOHNSON.

*Freshman Year.*—English 1-2, Greek 1-2, Latin 1-2, Mathematics 1-2, Philosophy 1, History of Art 2.

*Sophomore Year.*—Greek 3-4, Latin 3-4, or 5-6, Physics or Mathematics, four hours each semester. Election, two to six hours each semester, but History 1 and 2 must be taken in the Sophomore or Junior Year.

*Junior Year.*—English 3-4, Mathematics or Physics, three or four hours each semester, Modern Language or Science, three or four hours each semester. Election, three to nine hours each semester, but History 1 and 2 must be taken if not taken in the Sophomore year.

*Senior Year.*—English 5, Philosophy 3-4, Mathematics or Physics, three or four hours each semester, Modern Language or Science, three or four hours each semester. Election, three to seven hours each semester.

GROUP A3. ADVISER, PROFESSOR JOHNSON.

*Freshman Year.*—Latin, Greek, English, Mathematics, History of Art and Philosophy, as in Group A1, described above. Election, one to three hours each semester.

*Sophomore Year.*—Greek 3-4, Latin 3-4 or 5-6, History 1-2, Science or Modern Language, three or four hours each semester. Election, two to three hours each semester.

*Junior Year.*—English 3-4, Science, four hours each semester, History or History of Art, three or four hours each semester. Election, two to three hours each semester.

*Senior Year.*—English 5, Philosophy 3-4, Science or Modern Language, three to four hours each semester. Election, four to ten hours each semester.

GROUP A4. ADVISERS, PROFESSOR GOODELL AND MR. KULL.

In addition to the general requirements for all groups leading to the A. B. degree at least thirty credits will be required in History and Political Science. The particular courses in each subject are not indicated in advance, but will be determined at the time of registration in the case of each individual student. Those wishing to emphasize Political Science in their elections will regard Professor Goodell as their adviser. Mr. Kull will advise those choosing History as their major.

GROUP A5. ADVISER, MISS PECKHAM.

*Freshman Year.*—English 1-2, Greek 1-2, Latin 1-2, Mathematics 1-2, Philosophy 1, History of Art 2.

*Sophomore Year.*—Greek 3-4, Latin 3-4, or 5-6, Mathematics 3-4. Three to six hours open to election each semester.

*Junior Year.*—English 3-4, Mathematics 5-6. Six to eleven hours open to election each semester.

*Senior Year.*—English 5, Philosophy 3-4, Mathematics or Astronomy each semester. Six to ten hours open to election each semester.

The general requirements of four units each of French and German and eight units of Science should one or both be completed by the close of the Junior year.

GROUP A6. ADVISER, PROFESSOR WILLIAMS.

*Freshman Year.*—English, Latin, Greek, Mathematics, History of Art, and Philosophy as in Group A1 described above. Election, one to three hours each semester.

*Sophomore Year.*—English 9 and 10, Latin 3 and 4, or 5 and 6, Greek 3 and 4, Modern Language. Election, two to four hours.

*Junior Year.*—English 3, 4, 6, 7 and 11, Modern Language. Election, five to nine hours.

*Senior Year.*—English 5, 13 and 15, Philosophy 3-4, History of Art 4 or 6. Election, eight hours each semester.

#### B. FOR THE DEGREE OF BACHELOR OF SCIENCE.

Seven groups lead to this degree, designated B1, B2, etc., emphasizing respectively the departments of Botany, Chemistry, Engineering, Geology, Mathematics, Physics and Zoology.

The common requirements of all groups leading to this degree are: English, courses 1-5; Mathematics, courses 1-2; Chemistry, courses 1-2 for those who do not present Chemistry for entrance, courses 3-4 for those who do; Physics, courses 1-2; Philosophy, courses 1, 3 and 4; History of Art, course 2. All candidates for this degree must present at least eight units of French or Spanish, and eight of German. Students who present two years of French or German for admission to the Freshman class must take at least eight additional units of foreign language work (French, Spanish, German or Latin) before graduation.

Time not provided for by these general requirements, or by the additional requirements of the particular group chosen, is open to free election in conference with the Group Adviser. In order to insure the formation of a class in any study which is purely elective, the student must consult his Group Adviser and the Instructor concerned at least thirty days previous to the end of the preceding semester.

##### GROUP B1. BOTANY. ADVISER, PROFESSOR STICKNEY.

This group is sub-divided as follows:

Sub-group I is designed for students who wish to make Botany their major science, with a view to teaching that subject, or to biological survey or state or government work in the Department of Agriculture. In addition to the general requirements for the B. S. degree, the group requires:

Botany 1, 2, 3, 4, 5, 6.

Drawing, Mechanical or Free-hand, one unit.

Geology 3, 4.

Zoology 3, 4, 15, 16.

Sub-group II is arranged for those who intend to go into practical agriculture, or who contemplate the United States Forestry Service. This group prepares for advanced standing in a School of Forestry. The group requirements, in addition to the general requirements for the B. S. degree, are:

Botany 1, 2, 3, 4, 5, 6, 9, 10.

Civil Engineering 1, 4, 11.

Geology 3, 4.

Zoology 3, 4, 15, 16.

In addition to the above, this group requires the summer courses in Plant Ecology and Entomology to be taken at the Lake Laboratory, Sandusky.

GROUP B2. CHEMISTRY. ADVISER, PROFESSOR BRUMBACK.

*Freshman Year.*—English 1-2, Mathematics 1-2. Philosophy 1, Chemistry 1-2 or 3-4, Zoology 15-16, History of Art 2, a Modern Language, 4 hours.

*Sophomore Year.*—Chemistry 5-8, a Modern Language four hours, Physics 1-2. Four to six hours each semester open to election.

*Junior Year.*—English 3-4, Chemistry 9-10. Seven to eleven hours open to election each semester.

*Senior Year.*—English 5, Philosophy 3-4. Nine to thirteen hours each semester open to election.

In this Group two years each of French and German are urged, also Mathematics 3-4, Geology 3-4, or 5-6, and Zoology 1-2.

GROUP B3. ENGINEERING. ADVISER, ACTING PROFESSOR JOHNSON.

*Freshman Year.*—English 1-2, Mathematics 1-2. Philosophy 1, Civil Engineering 1 or 2 and 4, Chemistry 1-2 or 3-4, History of Art 2, Physics 1-2.

*Sophomore Year.*—Physics 3-4, Mathematics 3-4, French or German 4 hours, Civil Engineering 3 and 12.

*Junior Year.*—English 3-4, Geology 3, German or French four hours each semester, Civil Engineering 7 and 13 first semester, 8 and 12 the second.

*Senior Year.*—English 5, Philosophy 3-4, Civil Engineering 9 in the first semester, 10 in the second. Election, six hours each semester. Students interested in Mining Engineering are referred to the second sub-group under Group B4.

GROUP B4. GEOLOGY. ADVISER, PROFESSOR CARNEY.

This group is subdivided as follows:

SUB-GROUP I.

Sub-group I is intended as a general culture course. Electives may be so arranged as to prepare for a teaching position in Geology and a modern language, or some other combination. The group comprises:

1. *General Requirements*, as in all scientific groups, stated on page 80.
2. *Group Requirements*, Geology 2, 3, 4, 5, 6, 11, 12; Zoology 17-18; and twelve units of other sciences.
3. *Elective*. Courses sufficient to make up the 124 units required for the B. S. degree.

SUB-GROUP II.

This group affords the training for certain lines of work in the United States Geological Survey, and also prepares for advanced standing in a Mining Engineering School.

*Freshman Year.*—Mathematics 1-2, English 1-2, Chemistry 3-4, Philosophy 1, Civil Engineering 1-2, History of Art 2.

*Sophomore Year.*—Chemistry 5-6, Physics 1-4, Mathematics 3-4, Civil Engineering 4, Geology 3-4, and French or German throughout the year.

*Junior Year.*—Civil Engineering 3 and 7, English 3-4, Geology 7, and French or German throughout the year, Geology 12. Election, six hours, second semester.

*Senior Year.*—English 5, Philosophy 3-4, Geology 11, Civil Engineering 11. Election, six hours each semester.

NOTE.—If a student presents French or German for entrance, the opportunity for election is thereby increased. Civil Engineering 11 should be elected if possible.

## GROUP B5. MATHEMATICS. ADVISER, MISS PECKHAM.

*Freshman Year.*—Mathematics 1-2, English 1-2, Philosophy 1, Chemistry 1-2, or 3-4, History of Art 2. Election, four hours.

*Sophomore Year.*—Mathematics 3-4, Physics 1-2, French or German four hours. Possible election, three to six hours each semester.

*Junior Year.*—Mathematics 5-6, English 3-4. Six to ten hours' election possible each semester.

*Senior Year.*—Mathematics or Astronomy each semester; English 5, Philosophy 3-4. Seven to ten hours' election each semester.

## GROUP B6. PHYSICS. ADVISER, PROFESSOR LAWTON.

*Freshman Year.*—English 1-2, Physics 1-2, Mathematics 1-2, Chemistry 1-2, or 3-4, Philosophy 1, History of Art 2. Election, two to four hours each semester.

*Sophomore Year.*—Physics 3-4 Mathematics 3-4. Election, seven hours each semester.

*Junior Year.*—English 3-4, Physics 5-6. Election, seven to ten hours each semester.

*Senior Year.*—English 5, Philosophy 3-4, Physics 7-8. Election, eight hours in each semester. Those desiring special or advanced work along particular lines in Physics may elect courses 15-16, and any who expect to pursue electrical or mechanical engineering are advised to elect courses 9 and 10.

## GROUP B7. ZOOLOGY. ADVISER, PROFESSOR COGHILL.

This group is subdivided as follows:

Sub-group I, recommended to students who anticipate the study of medicine.

In addition to the general requirements for all groups leading to the B. S. degree, the following courses are included:

*Freshman Year.*—Zoology 1-2.

*Sophomore Year.*—Zoology 3-4.

*Junior and Senior Years.*—Botany 3-4; Zoology 5, 8, 7, 10.

*Additional Requirements.*—Zoology 17-18 (in the Freshman year if possible) and Botany 11.

Sub-group II, recommended to Shepardson College students who desire studies relating particularly to domestic science.

In addition to the general requirements for the B. S. degree, the following courses are included:

*Freshman Year.*—Zoology 1-2.

*Sophomore Year.*—Zoology 4.

*Junior and Senior Years.*—Zoology 5, 6, 7, 9, 10.

*Additional Requirements.*—Zoology 17-18 (in the Freshman year if possible), Zoology 12, Botany 9, 11, 13.

### C. FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The applicant for this degree must select some one foreign language, ancient or modern, and pursue it through two consecutive years (16 semester units), and previous to graduation must elect not less than 8 additional units of foreign language work, in consultation with his Group Adviser. Further common requirements of all groups for the degree are, English, courses 1-5, Mathematics 1-2, Philosophy, courses 1, 3 and 4, History of Art, course 2.

Eight groups, designated C1, C2, etc., lead to this degree, emphasizing respectively the departments of Latin, Romance Languages, German, English, History, Mathematics, Pedagogy and Theory of Music.

GROUP C1. LATIN. ADVISER, PROFESSOR JOHNSON.

*Freshman Year.*—English 1-2, Philosophy 1, Latin 1-2, Mathematics 1-2, History of Art 2. Election one to three hours each semester.

*Sophomore Year.*—Latin 3-4 or 5-6, a Modern Language, History 1-2 or a Science. Free election, three to six hours each semester.

*Junior Year.*—English 3-4; a Modern Language, Pedagogy, or History of Art; Latin, Logic or History. Free election, three to nine hours each semester.



*Senior Year.*—English 5, Philosophy 3-4; Latin, History or a Romance Language. Free election, six to ten hours each semester.

GROUP C2. ROMANCE LANGUAGES. ADVISER, PROFESSOR MCKIBBEN.

*Freshman Year.*—English 1-2, Mathematics 1-2, Philosophy 1, French, four hours, History of Art 2. Elective, four or five hours each semester from departments of Mathematics, Science, or Ancient Languages.

*Sophomore Year.*—French four hours, German four hours, the remainder of the time to be filled by election from Ancient Languages, Science, Mathematics or History.

*Junior Year.*—First semester, English 3, Spanish 1, Anglo-Saxon four hours, French two hours. Possible election, three to five hours. Second semester, English 4, Spanish 2, Italian 2, French two hours. Possible election, four to six hours.

*Senior Year.*—English 5, Philosophy 3-4, Italian 3, French two hours each semester. Possible election, six to nine hours in first semester, seven to eleven hours in second.

GROUP C3. GERMAN. ADVISER, PROFESSOR CHAMBERLIN.

*Freshman Year.*—German 1-2, English 1-2, Mathematics 1-2, Philosophy 1, History of Art 2, Latin 1-2 or Greek 1-2. Elective, one to three hours each semester, with consent of adviser.

*Sophomore Year.*—German 3-4, History 1-2. Elective, seven to eight hours each semester, to be chosen both from Foreign Language and Science.

*Junior Year.*—German 5-6 or 7-8, English 3-4. A year's work of History, Foreign Language, or Science. Elective, six or seven hours each semester.

*Senior Year.*—German 9-10, Philosophy 3-4, English 5, German 7 if not previously taken. Elective six to ten hours, with English 7 and 12 advised.

If credits in modern languages are offered for entrance a corresponding amount may be deducted from the college lan-

guage requirements of the group, thus leaving more time for election from other departments.

GROUP C4. ENGLISH. ADVISER, ASSISTANT PROFESSOR PENCE.

*Freshman Year.*—English 1-2, Philosophy 1, Latin 1-2, Mathematics 1-2, History of Art 2, French or German. Election, one to three hours.

*Sophomore Year.*—English 9-10, two Modern Languages. Election, four to eight hours.

*Junior Year.*—English 3, 4, 6, 7 and 11; Modern Language. Election, five to nine hours.

*Senior Year.*—English 5, 13 and 15; Modern Language, Philosophy 3-4. Election, three to nine hours.

GROUP C5. ADVISERS, PROFESSOR GOODELL AND MR. KULL.

In addition to the general requirements for all groups leading to the B. Ph. degree at least thirty hours of History and Political Science will be required for the completion of this group. The particular courses in each subject are not indicated in advance, but will be determined at the time of registration in the case of each student. Those wishing to major in Political Science will see Professor Goodell as their adviser. Those wishing to major in History will see Mr. Kull.

*Senior Year.*—English 5, Philosophy 3-4, Political Science 1-2. Election, six to eleven hours first semester, six hours second semester.

GROUP C6. MATHEMATICS. ADVISER MISS PECKHAM.

*Freshman Year.*—Mathematics 1-2, English 1-2, Philosophy 1, History of Art 2, an Ancient or Modern Language four hours each semester. Election, four to six hours each semester. (One foreign language to be pursued through the Freshman and Sophomore years, 16 units, and not less than 8 units more of foreign language work to be elected during the course.)

*Sophomore Year.*—Mathematics 3-4; continuation of foreign language chosen in Freshman year, four hours each semester; History or Science, four hours each semester. Free election, three to six hours each semester.

*Junior Year.*—Mathematics 5-6, English 3-4, a foreign language, four hours each semester. Free election, four to seven hours each semester.

*Senior Year.*—Mathematics or Astronomy each semester; English 5, Philosophy 3-4. Election, seven to ten hours each semester.

GROUP C7. PEDAGOGY. ADVISER, DEAN LOVERIDGE.

*Freshman Year.*—English 1-2, Philosophy 1, Mathematics 1-2, History of Art 2; one foreign language through the year. Free election, three to five hours each semester. One year's work in science must be taken in this group.

*Sophomore Year.*—History 1-2. One language and one science through the year. Free election, four to six hours.

*Junior Year.*—English 3-4, Pedagogy 1-2, History of Art 3, and 4 or 6. Four to eight hours elective.

*Senior Year.*—English 5, Philosophy 3-4, Pedagogy 3-4, History of Art 4 or 6. Three hours elective.

GROUP C8. MUSIC. ADVISER, MR. WOOD.

*Freshman Year.*—English 1-2, Philosophy 1, Mathematics 1-2, German or French 1-2, Music 1-2 and 3-4, History of Art 2, Zoology 17-18, Physics 17-18.

In addition to the general requirements for the degree, the following courses are required for this group:

*Freshman Year.*—Music 1-2 and 3-4.

*Sophomore Year.*—Music 7-8, History 1-2.

*Junior Year.*—Music 9-10, History of Art, 3-4.

*Senior Year.*—Music 13-14.

Music 5-6, 11-12, 17-18, Zoology 17-18, and Italian 2-3 are also required, but not in any specific year.

A certain minimum of musical technique is requisite in the theoretical courses in advance of Music 4, and a student with no practical knowledge of music may be required to pursue the study of the pianoforte not less than two semesters. The course in Sight Reading and Ear Training is also required of Freshmen in this group. The completion of the foregoing group does not entitle the student to the regular Conservatory Diploma, the requirements for which are stated elsewhere.

## II. Shepardson College

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### HISTORICAL STATEMENT.

For several years prior to 1900, under joint agreement of the authorities of the two schools, the facilities of Denison University, including instruction, were largely accessible to the students of Shepardson College. The practical working of this arrangement gradually pointed the way to a still closer union, making it possible to offer to both daughters and sons of the patrons of the two schools an education in all respects equal, and receiving equal recognition upon completion.

In June, 1900, following these indications of practical experience, such a union was effected. The courses of Denison University, its class rooms, its material equipment and its degrees, were opened to the students of Shepardson College on exactly the same terms as to young men. While Shepardson College thus became a department of the University, co-ordinate in all scholastic matters with Granville College, it still retains its legal identity, and offers on its own account one course, differing from any of the courses of the University and leading to the title of Associate in Literature.

As the Boards of Trustees and the courses of instruction (with the exception just noted) are now the same for Granville College and Shepardson College they are not here repeated, but may be found with other general information, in the preceding pages of the catalogue.

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### OFFICERS OF INSTRUCTION AND GOVERNMENT.

EMORY W. HUNT, D. D., LL. D., President.  
*Intellectual and Moral Philosophy.*

BLANCHE G. LOVERIDGE, A. M., Dean.  
*Pedagogy and History of Art.*

- RICHARD S. COLWELL, D. D.  
*Greek.*
- GEORGE F. MCKIBBEN, PH. D.,  
*Romance Languages.*
- CHARLES L. WILLIAMS, A. M.,  
*Rhetoric and English Literature.*
- WILLIAM H. JOHNSON, A. M.,  
*Latin.*
- WILLIS A. CHAMBERLIN, PH. D.,  
*German.*
- CHARLES E. GOODELL, A. M.,  
*History.*
- FRANK CARNEY, PH. D.,  
*Geology and Mineralogy.*
- ARTHUR M. BRUMBACK, A. M.,  
*Chemistry.*
- GEORGE E. COGHILL, PH. D.,  
*Zoology.*
- ELLIS E. LAWTON, PH. D.,  
*Physics.*
- MALCOLM E. STICKNEY, A. M.,  
*Botany.*
- PAUL BIEFELD, PH. D.,  
*Astronomy.*
- ANNA B. PECKHAM, A. M.,  
*Mathematics.*
- BUNYAN SPENCER, A. M.,  
*Logic.*
- THEODORE S. JOHNSON, M. S.,  
*Engineering.*
- CLARENCE D. COONS, M. S.,  
*Physics.*

## DENISON UNIVERSITY

RAYMOND W. PENCE, A. M.,  
*English.*

AUGUST ODEBRECHT, A. M.,  
*Modern Languages.*

VICTOR H. HOPPE, A. B.,  
*Public Speaking.*

CLARA A. DAVIES, M. S.,  
*Science.*

CARL PAIGE WOOD, A. M.,  
*Theory of Music.*

LAURA B. PARSONS,  
*Drawing and Theory of Art.*

MARY L. MCKIRREN, B. PH.,  
*French.*

LILY BELL SEPTON, B. S.,  
*Chemistry.*

MRS. EUGENIA E. FINLEY,  
*Domestic Science.*

CONSTANCE TEEPLE, A. B.,  
*Physical Training.*

MRS. ALICE K. HERRICK,  
*Matron.*

ELMER E. HOPKINS, A. B.,  
*Treasurer.*

ANNA B. PECKHAM, A. M.,  
*Secretary to the Faculty.*

KATHERINE COURTNEY, B. PH.,  
*Secretary to the Dean.*

MRS. LAURA A. SWARTZ,  
*Director of Dining Hall.*

## WOMEN IN CHARGE OF COLLEGE HOUSES.

Burton Hall.....	MISS LOVERIDGE
King Hall.....	MISS PARSONS
Stone Hall.....	MISS PECKHAM
Domestic Science Hall.....	MISS SEFTON

## COURSES OF STUDY AND DEGREES.

The courses of study of Denison University, and its degrees, are all open to students of Shepardson College on equal terms with young men, and a detailed statement of studies offered in the various departments of instruction, with conspectus of courses leading to the several degrees, will be found on pages 40-87.

In addition to these courses Shepardson College on its own account offers the title of Associate in Literature for the following course, based upon the same amount of preparatory work as is required for entrance to the Freshman year in the University courses:

## FIRST YEAR.

NAME OF COURSE	COURSE NUMBER	HOURS PER WEEK
<i>First Semester—</i>		
French or German .....	F. 1	4
Philosophy .....	Ger. 1	4
Rhetoric and American Literature .....	Pb. 1	1
Science or Mathematics .....	E. 1	3
*Elective .....		3 or 4
		3 to 5
<i>Second Semester—</i>		
French or German .....	F. 2	4
Science or Mathematics .....	Ger. 2	4
Rhetoric and American Literature .....		3 or 4
*Elective .....	E. 2	3
		4 or 5

## SECOND YEAR.

NAME OF COURSE	COURSE NUMBER	HOURS PER WEEK
<i>First Semester—</i>		
French or German .....	F. 3	4
English Literature .....	Ger. 4	4
History of Art .....	E. 3	3
*Elective .....	H. A. 3	4
		5
<i>Second Semester—</i>		
French or German .....	F. 4	4
English Literature .....	Ger. 4	4
History of Art .....	E. 4	3
*Elective .....	H. A. 4 or 6	4
		5

\*The elective for which provision is made throughout this course must be History, English, Music or Art. The Music or Art must be sufficiently advanced to be regarded as college and not preparatory work, this of course to be determined by the Faculty.

It should be understood that the certificate given at the completion of this course entitles one to full credit for all work done except in Music or Art, in any one of the University Courses, should the student subsequently compete for a degree.



## ROOMS AND BOARD.

Non-resident students board and room in the College, unless other arrangements have been made with the College authorities. Students may not room in the village and board at the College dining-hall so long as there are vacancies in the dormitories.

*Hereafter, no reduction in board can be given to students returning to their homes over Saturdays and Sundays.*

Teachers and students living on the College grounds, take meals in the dining-hall.

Each student must furnish napkin and napkin ring, towels, sheets, pillow cases and bedding for single or double bed, so that two room-mates may together furnish all needful bedding. Size of pillows, 22x27 inches. Those who desire may provide window drapery, table spreads, etc. All articles of clothing and bedding must be marked with the owner's name in full. Baggage should be plainly marked, "Shepardson College," to insure prompt delivery.

In order to secure a room in advance, a retaining fee of five dollars must be deposited by each student with the Treasurer of the College. No room is regarded as engaged until this fee is in the Treasurer's hands. This sum will be applied on the bills of the first semester, unless the student fails to take the room, in which case it is forfeited. Those wishing a choice of room should apply early. Engagement of rooms in advance is understood to be for the year, unless otherwise stipulated.

Rooms engaged at the close of the school year will not be held later than July 1, unless the retaining fee has been paid.

## ADMISSION.

Shepardson College no longer maintains a preparatory department, and grants admission only to students of college grade. The requirements for entrance to the Freshman year are identical with those of Granville College, a full statement of which will be found on pages 34-37.

## DISCIPLINE.

Only such regulations are imposed as are necessary to maintain health and order. It is the endeavor of the College to develop self-knowledge and self-control. The government is educational rather than restrictive. With this in view a system of Student Government has been adopted, having for its province the conduct of the young women in the various College houses. The conduct of the young women with reference to all social engagements is under the control of the Faculty.

## MORAL AND INTELLECTUAL INFLUENCES.

Without placing any restraint upon the denominational preferences of its pupils, the College aims to surround them with salutary Christian influences. Attendance on the daily Chapel exercises and the usual Sunday service is required, but no restriction is placed upon the pupil's choice of a regular place of worship. A students' prayer-meeting is held every Monday evening. Students and teachers unite in the Young Women's Christian Association, and in classes organized for systematic Bible study.

There are three literary societies for students in Shepardson College, the Euterpean, Philomathean, and Thalian.

The Marsh Memorial Library in King Hall, established by Dr. and Mrs. Shepardson in memory of their daughter, Mrs. Lide Shepardson-Marsh, contains a valuable collection of books for Bible and missionary study; also dictionaries, encyclopedias, and other helps for general study. This library is constantly being increased by gifts from the family and friends of Mrs. Marsh.

The Reading Rooms in Burton Hall and Stone Hall are supplied with current literature, and in addition to the University Library a special Reference Library is maintained on the Shepardson College grounds, for the convenience of its students and teachers.

## PHYSICAL TRAINING.

MISS TEEPLE.

The Physical Training for young women is under the personal instruction of the physical director and consists of graded class work in gymnastics through two and one-half years. The four credits given for this work are required for graduation except of those who are excused from gymnastics by a physician. An advanced physical training class is offered those who desire to specialize in this line. Instruction in swimming, tennis, basket-ball and archery is free to all. These sports, together with walking, afford the daily exercise expected of each student resident in College halls. A physical examination is given every woman who enters the College by the director before she can begin the gymnasium work, and if necessary, corrective exercises are prescribed to meet her special needs. The aim throughout is to meet the individual physical needs of the students.

## SCHOLARSHIPS.

A number of scholarships are available for the use of students in case of necessity, provided they maintain an honorable standing in classes and live an exemplary life.

It is understood that pupils holding scholarships, if called upon, will render some service to the College. Such service, however, will in no way conflict with the pursuance of regular studies.

## EXPENSES.

No student is enrolled in any department until settlement has been made with the Treasurer and Registrar.

All bills are payable at the beginning of each semester, but students having bills amounting to more than \$25.00 may pay one-half at the beginning of the semester, or within two weeks, and the balance at the middle of the semester.

A fine of fifty cents, known as Delinquent's Fee, will be imposed upon students for the first day their bills remain unsettled after the date set for payment, seventy-five cents the

second day and an additional twenty-five cents for each succeeding week.

It is understood that all registrations are for the entire semester and the bills for the same are thereby incurred. No rebate from the semester bills is given except in case of illness, when the following rebates will be granted:

FOR STUDENTS IN SHEPARDSON COLLEGE, a rebate of \$12.50 on tuition will be granted to those only who leave by the middle of the semester; in addition to this, a rebate of \$3.00 per week on board will be granted to RESIDENT STUDENTS leaving before December 15th of the first semester or April 15th of the second semester. After these dates no rebates will be given.

NO REBATE WILL BE GRANTED ON ROOMS UNDER ANY CONSIDERATION.

FOR STUDENTS in the CONSERVATORY OF MUSIC and ART DEPARTMENTS, a rebate of one-half the tuition charge (no rebate on fees) will be granted only to those leaving before the middle of the semester.

For students taking six hours' work or less per week in the Literary Department only, the charge will be \$10.00 less than the full tuition charge.

Students taking less than ten hours per week in the Literary Department and full time in the Conservatory of Music will be charged at the rate of \$4.00 per semester hour in the Literary Department.

For students taking more than eighteen hours per week in the Literary Department, a charge of \$1.00 per semester for each extra hour is made.

Meals sent to rooms will be charged extra.

Any breakage or injury to furniture or room will be charged to the occupants of the room.

No student will be permitted to register for future work until all bills due the College have been paid.

## EXPENSES PER SEMESTER.

All College expenses (outside the Conservatory of Music, the Art Department and the classes in Domestic Science) are combined in one sum, which includes room-rent, board, tuition, and all fees except laboratory fees, as follows:

For students occupying rooms in college houses.....	\$140.00
For non-resident students.....	40.00

## EXTRA EXPENSES.

Matriculation fees are as follows: Freshman Class, \$2; Sophomore, \$3; Junior, \$4; Senior, \$5.

Students absenting themselves from the regular examinations are charged a fee of \$2 for each special examination.

Certain laboratory courses in Natural Science have fees attached, to cover cost of materials and breakage. For College classes these fees will be found with statement of the individual courses in the various departments. Fee for late registrations, fifty cents on second day of the semester, and one dollar after the second day.

Diploma fees are as follows: Collegiate, \$5.00; Conservatory of Music, \$2.00; School of Art, \$2.00.

### III. Doane Academy

#### FACULTY.

H. RHODES HUNDLEY, A. M., SC. D., Dean,  
*English and History.*

BUNYAN SPENCER, A. M.,  
*Greek.*

MALCOLM E. STICKNEY, A. M.,  
*Botany and Physiology.*

FRANK CARNEY, PH. D.,  
*Physical Geography.*

ARTHUR M. BRUMBACK, A. M.,  
*Chemistry.*

CLARENCE D. COONS, M. S.,  
*Physics.*

AUGUST ODEBRECHT, A. M.,  
*French and German.*

CHARLES ELLSWORTH DAVIS, B. SC.,  
*Latin.*

CHAS. W. HENDERSON,  
*Mathematics.*

HELEN KENDRICK HUNT, PH. B.,  
*English.*

BUNYAN SPENCER ..... Registrar  
AUGUST ODEBRECHT ..... Secretary

#### HISTORY OF DOANE ACADEMY.

This school was organized in 1831, as a preparatory department of the Granville Literary and Theological Institution. As the latter developed first into Granville College and later

into Denison University, the preparatory department remained a fundamental part of the institution. In 1887 it was organized as a separate school, with increased efficiency, under the name of Granville Academy. In 1894, Dr. William Howard Doane, of Cincinnati, presented the school with a beautiful and commodious building, and in recognition of this gift the Board of Trustees in 1895 changed the name to "Doane Academy."

#### AIM.

It is the special aim of the Academy to bestow the best quality of instruction preparatory to College. In addition to the preparatory work, however, the curriculum has been so arranged as to furnish to those not intending to pursue a course in College a first-class Academic education.

#### ADVANTAGES OF LOCATION.

The school is located in Granville, Licking County, Ohio, a village noted for beauty of surrounding scenery, healthfulness of climate, and intelligence and high moral character in its citizens. The quiet of the place is highly conducive to earnest study. The absence of saloons and all places for gambling and vice makes Granville an ideal place for young people. The social atmosphere is pure and elevating and offers to young men an opportunity for the cultivation of those graces which will enable them to appear well in good society.

#### CONNECTION WITH DENISON UNIVERSITY.

The Academy enjoys peculiar advantages by reason of connection with Denison University. The general comforts and conveniences of a plant more extensive and costly than a preparatory school might afford, are open without discrimination to students of the Academy. The Library of the University, the privilege of Cleveland Hall, and the equipment of the Scientific Departments are examples of these exceptional advantages. Besides these, the intellectual stimulus of association with the Faculty and the mature students of the College; unusual social privileges; opportunities in the way of lectures and entertain-

ments; the courses of the Conservatory of Music and of the Art Department, are further illustrations of the advantage that accrues to the Academy through union with the greater institution.

#### ROOMS FOR STUDENTS.

Within certain limitations, the rooms in the college dormitories are available for Academy students.

The rooms are arranged in suites, each suite consisting of a study 12 by 15 feet, a bed-room 8 by 11 feet, and two small closets. Each suite is designed for two students.

The rooms have been recently relitted and provided with all necessary furniture. They are lighted with electric light and heated with hot water radiators, connected with the central heating and lighting plant. There are lavatories with hot and cold water, shower baths, etc., on every floor.

If any student prefers to room elsewhere, or if at any time he finds all the rooms in the dormitories assigned to others, he can always obtain pleasant rooms in the village, either furnished or unfurnished, at moderate cost.

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### Courses of Study

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#### REGULAR COURSES.

There are three regular courses of study, the Classical, the Scientific, and the Philosophical, each extending through four years and leading to corresponding courses in the College. The holder of a diploma from the Academy is admitted to the Freshman Class of Granville College without examination on the payment of a matriculation fee.

Although these courses have been arranged with special reference to the curricula of the University, they will be found quite sufficient to prepare for entrance into any American college. An examination of the detailed scheme of these courses, found on following pages, will show that outside the required work sufficient electives are offered to insure conformity to individual needs.



## ELECTIVE STUDIES.

When the reason seems to be sufficient, students are allowed to make a judicious choice of elective studies, but this choice is never permitted to interfere with the work of the regular classes in which studies may be elected.

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Outline of the Work

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ENGLISH.

The aim of the work in this department is to insure a thorough knowledge of English Grammar; give careful grounding in the fundamental principles of Composition and Rhetoric, supplemented by extensive practice in writing; meet the "College Entrance Requirements" in English Classics; and take an outline survey of English literature.

## MATHEMATICS.

The work in Mathematics covers three years, five hours a week, divided equally between Algebra and Geometry. Algebra is given in the first year, five hours a week and extends through Quadratics. Algebra II is given five hours a week throughout the second semester of the fourth year and in addition to a thorough review, carries the subject through the progressions. An entire year is devoted to Plane Geometry giving time for extensive work in original exercises. One semester is given to Solid Geometry.

## HISTORY.

A course in General History is offered in the first year. The scope of this work may be judged from the fact that Myers' latest texts in Ancient, Mediaeval and Modern History are carefully covered. In the second year English History is given three hours a week throughout the year.

## LATIN.

The first year in this subject is devoted to a thorough mastery of the forms and underlying principles of the syntax of the

language. In the second, four books of Cæsar or the equivalent are read, and a text-book course in prose composition is given. In the third year, Cicero's orations against Catiline and his *Manilian Law, Archias and Marcellus* are read, accompanied by a continuation of the course in prose composition. Six books of Virgil's *Aeneid* are read in the fourth year, supplemented by Ovid and courses in Mythology and prose composition.

#### GREEK.

The regular course in this subject includes two years, five hours a week, covering the ordinary first year of Greek, the usual amount of the *Anabasis*, and prose composition. For those preparing for colleges requiring more Greek for entrance, provision is made for taking the additional amount in connection with the Freshman Class in Granville College.

For the benefit of those who enter the advanced courses in the Academy or who enter the Freshman Class in the College desiring to take the Classical Course but lacking Greek, a so-called "Doubblers'" class is organized which completes two years in one. Only students of tried ability and earnestness are allowed in this class, and a decline of grade below 80% immediately debars the delinquent from the class.

#### MODERN LANGUAGES.

Two years of French and two of German constitutes the work of this department. French or German may be substituted for Latin in the last two years of the Scientific Course, and a similar substitution of French, German or Greek will hereafter be allowed in the last year of the Philosophical Course; and while no work in this department is required, at present, in the Classical Course, it is hoped that no student will complete that course without at least one year of either French or German.

#### SCIENCE.

Four full years of Science are offered. Each course requires the conventional proportion of laboratory work. In the first semester of the second year, Physiology is given, and in the

second semester, Botany. Laboratory and note-book work is required in both these courses. In the third year, strong courses in Chemistry and Physical Geography are given. Both consist of text-book, lecture and laboratory work. In Physical Geography, field work is also required. In the Senior year, the subject of Physics is given, with regular weekly laboratory work throughout the year.

All the science work is done under the direct supervision of the heads of the respective departments in Granville College, and this fact, together with the exceptional equipment afforded by the connection of the Academy with Denison University, guarantees superior advantages in our Science Department.

### Admission of Students

Although students are admitted at any time, they enter to the best advantage at the beginning of the school year. Those who desire to enter after the school year has begun should, by correspondence with the Dean, ascertain before-hand, as nearly as possible, the progress that has been made by the class which they propose to enter.

#### CONDITIONS OF ADMISSION.

The requirements for admission to the First Year Class are the usual eight grades of public school work, or the equivalent; and to advanced standing, the studies previously pursued by the class which the applicant desires to enter.

No student will be admitted who is not fitted to do well the work of the first year.

An applicant not personally known to some member of the Faculty must furnish testimonials of good character, and, if from another institution, he must present a certificate of honorable dismission.

#### COURSE OF INSTRUCTION BY YEARS.

The following scheme of the studies of each course by years exhibits the work required for graduation in each together with the electives offered:

STATEMENT OF COURSES BY YEARS.

While in most cases four years will be absolutely necessary to complete the work required for graduation, it is not the policy of the school to hold back those who are clearly able to carry more than the yearly allotment. Exceptionally earnest, mature and capable students may in the four years complete all the Academy work and more or less of the Freshman year in College. The work of the Academy is so articulated with that of the College as to make this plan quite feasible, and in this way it may be possible frequently to shorten the combined work of the Academy and College courses by at least a year.

	CLASSICAL	Hours Per Week	SCIENTIFIC	Hours Per Week	PHILOSOPHICAL	Hours Per Week
FIRST YEAR	Latin I. (1st Book).....	5	Latin I.....	5	Latin I.....	5
	Algebra I (Through Quadratics).....	5	Algebra I.....	5	Algebra I.....	5
	History I (Ancient, 1st semester; Me- diaeval and Modern 2d).....	5	History I.....	5	History I.....	5
	English I (Review Grammar and Ele- mentary Composition).....	3	English I.....	3	English I.....	3
SECOND YEAR	Latin II (2d Latin Book) Caesar and prose composition.....	5	Latin II.....	5	Latin II.....	5
	Science I (Physiology 1st semester, and Botany 2d).....	5	Science I.....	5	Science I, or French I, or Ger. I.....	5
	or French I or German I.....	5	English II.....	4	English II.....	4
	English II (Rhetoric and Classics).....	4	History II.....	3	History II.....	3
	History II (English).....	3				
THIRD YEAR	Latin III, (7 of Cicero's Orations and Prose Composition).....	5	Latin III or French I or Ger. I.....	5	Two of Latin III or.....	5
	Greek I (1st Book).....	5	Science II (Physical Geography or Chemistry).....	5	Greek I, or French or German or Science II.....	5
	Plane Geometry.....	5	Plane Geometry.....	5	Plane Geometry.....	5
	English III, (Rhetoric and Classics).....	3	English III.....	3	English III.....	3
FOURTH YEAR	Latin IV, (Virgil and Prose Comp.).....	5	Latin IV, or French I or II, or Ger- man I or II.....	5	Two of Latin IV, or French I..... or II, or Greek II, or French I, or II, or German I or II.....	5
	Greek II, (Anabasis and Prose Com- position).....	5	Solid Geometry, 1st semester, and Algebra II, 2d.....	5	Chem, or Phys. Geog., or Physica, or Solid Geometry, 1st semester, and Algebra II, 2d.....	5
	Chemistry or Physical Geography, or Physics, or Solid Geometry, 1st se- mester, and Algebra II, 2d.....	5	Physics.....	5	English IV.....	4
	English IV, (Literature).....	4	English IV.....	4		

## Class Work

### REGULARITY AND PUNCTUALITY.

Every student, unless excused for special reasons, is expected to attend at least three recitations each school day. His attendance on these and on the special or public exercises of the class or of the Academy must be punctual.

*Parents are especially urged to encourage students to be present at the opening of the session, and to remain at their work till its close.* Absence from the duties of the school, whether occasioned by absence from town or by the entertainment of friends, is subversive of the highest good of the student. His pleasure, or that of his friends, should never be permitted to interfere with his daily duties.

### RECITATION PERIODS AND UNITS OF CREDIT.

The recitation periods are *one hour in length*, and a unit of credit is made by five hours of recitation a week throughout a year. Fractions of units are determined upon this basis.

It will be seen from the "Course of Studies by Years," exhibited on page 104, that fifteen units are required for graduation, but a student desiring to do so may increase this number of units to a considerable extent. This opportunity affords a special advantage to those who need to adjust their preparatory work to the entrance requirements of other colleges; while those who expect to enter Denison may, in general, secure 50% college credit for all such additional work.

### EXAMINATIONS.

Examinations are held at the close of each semester, and at intervals during the semester, at the discretion of the instructor. If a student's grade for a given semester in a given class falls below seven-tenths of the maximum, he forfeits his right to continue as a member of the class. In determining his grade, his examination mark has half the power of the average of his

term marks. Regularity in work, good conduct, spelling and diction are considered as elements in making up the student's standing.

#### RULES FOR EXAMINATION.

1. All students, whether candidates for the diploma of the Academy or not, are required to attend all examinations in the studies they pursue, unless excused by merit.

2. No student whose examination in any study is reported as "*Incomplete*," will receive credit for that study until after the examination has been completed. In case, however, the examination be not completed within one year, the unfinished study will be regarded and treated as "*Not Passed*."

3. Any student reported as passed "*Conditionally*" in any work must remove the condition within one year from the date of the examination in which it was incurred, otherwise he shall be regarded and treated as "*Not Passed*."

4. Any student reported as "*Not Passed*" in any study will receive no credit for that study until he has again pursued it as a regular class exercise, and has passed the regular examination in the same.

5. Giving or receiving aid in any examination is deemed grossly immoral, and will be visited with severe punishment.

6. Any student who is absent from examination, without consent previously obtained, must present to the Faculty a written statement of the cause of his absence; and the reason must be accepted as sufficient before he can enter his class.

7. A student who, having been absent from a regular examination in any class, applies for a special examination, or any student who takes an examination for the removal of a condition, must present to the instructor the Treasurer's receipt for the examination fee before receiving credit for such special examination.

### RULES GOVERNING ABSENCES FROM CLASS EXERCISES.

I. If a student shall be absent no more than five times from any class exercise during one semester, these absences shall be treated as excused.

II. The absences in excess of five shall be treated as *excused* or *unexcused*, at the discretion of the instructor.

III. When a student has been absent more than five times from any class, if these absences have been consecutive, he shall be required to pass an examination upon the part of the work covered by the period of absences; if the absences have occurred at different periods during the semester, the examination shall be upon such part of the work of the semester as the instructor shall determine. The student's standing for the period of absences shall be determined by his examination.

IV. These examinations shall not be considered special examinations in the sense of requiring an extra fee.

V. Every student who shall have been present at every recitation of a class during the semester shall have his three lowest marks in that class changed into that mark above 70 of which he has the greatest number.

### REPORTS.

At the close of each semester of study the Secretary of the Faculty mails to the parents or guardian of each student in the Academy a report of the standing attained by such student in each study pursued during the semester, together with a record of his absences and deportment.

Reports concerning individual students will also be furnished by the Dean at any time upon the request of the parent or guardian.

### SCHOLARSHIP PRIZES.

#### *Alpha Delta Tau and Kappa Zeta.*

In the Spring of 1910 Doane Academy was honored by being granted the Theta Chapter of Alpha Delta Tau, the honorary fraternity for preparatory schools corresponding to Phi Beta

Kappa in colleges. From the upper fifth of each graduating class a certain number are elected to the society each year, and the distinction which such an election confers provides an important stimulus to excellence in scholarship, as well as an appropriate reward for such excellence.

Through the generosity of one of Denison's most loyal alumni, two scholarship prizes have been offered. These prizes consist of Alpha Delta Tau badges, emblems of the Honorary Society, to which the valedictorian and salutatorian, the two graduates who are highest in scholarship, are elected each year.

The Kappa Zeta honorary society for girls also has a chapter here and the Kappa Zeta key is given each year to the girl graduating from Doane Academy with highest rank in scholarship.

#### IRVING-CICERO LITERARY PRIZE CONTEST.

For several years a spirited and friendly rivalry has existed between the two literary societies of the Academy. As a result of this the societies held for several years a public contest with no reward in view except that of the honor of being victor.

To stimulate the desire for honor and to encourage faithful work in societies, the Faculty of the University adopted the following resolutions:

1. That the contest be held between the holiday recess and the close of the first semester of each year.
2. That the winners of the contest in Declamation and Essay be granted each a scholarship for the first semester of the next school year.
3. That the winners of the contest in Oration and Debate be granted each a scholarship for the two successive semesters following that in which the contest is held.

#### SHERWIN PRIZES.

H. A. Sherwin, Esq., of Cleveland, has established in the Academy a first and second prize of \$50 and \$25, respectively. These prizes are unique in their terms. The conditions of award



are changed every year, and are announced only at the close of the year. Excellence in general scholarship with personal merit, excellence in Greek, excellence in Latin, and acquaintance with matters of current interest have been made the basis of award in the different years since the prizes were established.

#### ATHLETICS.

Besides holding membership in the general athletic Association of the University entitling them to all the privileges of that organization, the students of the Academy have their own athletic association and maintain their own teams in the various branches of sport. Their athletics are supervised by a board of athletic control and a graduate manager. Contests in football, basket-ball, and baseball are held with the more important high schools in this section of the State.

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### Graduation Appointments

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#### THE HONOR MEN.

The member of the graduating class whose average standing in the studies of the Junior Year and the first semester of the Senior Year is highest, is the last speaker on the programme of Graduation Day, and is called the Valedictorian. To the member of the class whose rank is next highest, is given first place on the programme with the title of Salutatorian. No student who has not recited with the classes of the Academy in at least eight full studies during these three semesters can receive either of these appointments.

#### OTHER SPEAKERS.

Every student who is eligible to the Diploma of the Academy writes an oration, and, having signed it with a fictitious name, hands it to the Dean of the Academy before April 15. The orations thus prepared are read to a committee whose members are ignorant of the authorship of the production, and those four that are considered best are selected as the orations to be presented at the graduating exercises of the Academy.

## EXPENSES.

The following is a summary of the principal necessary expenses during the Academic year:

Tuition, \$22.50 each semester.....	\$ 45 00
Room rent, including furnishing, lighting, heating and care, \$17 50 to \$25.00, according to location.....	\$35 00 to 50 00
Incidentals, including Gymnasium, Athletic, and Library fees, \$22.50 each semester.....	45 00
Books.....	12 00
Board, 39 weeks.....	90 00
Washing.....	12 00
Incidentals.....	10 00
Total.....	\$249 00 to \$264 00

The Laboratory fee for students in *Physics*, *Physiology* and *Botany* is \$2.00 per semester; for *Chemistry*, \$3.00, and for *Physical Geography*, \$1.00.

The fee for Diploma at Graduation is two dollars.

Fee for late registration, 50c on second day of the term and \$1.00 after the second day.

A fee of \$2.00 is charged for special examination.

Board in Clubs costs from \$2.35 to \$2.75 per week; in families, \$3.00 to \$4.50. When board costs over \$2.35 per week, the excess must be added to the estimate given above. Many students reduce their expenses below that sum. Rooms in the village are always to be had at prices ranging from 50 cents per week up. In the estimate above, reference is made to rooms in the dormitories, and includes heat, light, furniture and baths.

All bills are payable at the beginning of each semester, before students take their places in their classes. Any student compelled by sickness to leave by the middle of the semester will have one-third of the semester bills refunded.

The really necessary expenses of a student for a year, exclusive of clothing and traveling, are about \$250.

## Miscellaneous

### GOVERNMENT.

It is the desire to establish and maintain a relation of confidence between teacher and pupil, and to stimulate those sentiments which mature into Christian manhood. Students are encouraged in self-government, and to this end the greatest possible freedom is accorded them; but they are continually taught the difference between liberty and license, and the duty of practicing that self-denial which is necessary to the highest good both of themselves and their fellows. While it is the aim of this school to do all the good possible to every student, it is in no sense a reform school, and no student whose influence is found to be injurious will be suffered to remain.

### MORAL AND RELIGIOUS INFLUENCES.

The whole life and administration of the school, without being sectarian, are pronounced and positive in favor of the Christian religion. The exercises of each day include Scripture reading and prayer in the Chapel. This service the students are required to attend. They are also expected to attend Church twice each Sunday. Two regular weekly prayer meetings are sustained by the students. Members of the Academy are made welcome in the various Sunday Schools of the village. In the Baptist Sunday School, several classes, taught by College and Academy Instructors, are intended expressly for students.

### SCHOLARSHIPS.

By a vote of the Board of Trustees, the President of Denison University may remit the tuition of a limited number of students in cases of necessity. A few scholarships surrendered by the original purchasers, are under the control of the Faculty, and are assigned by them at the beginning of each year.

### VOLUNTARY SOCIETIES.

There are connected with the Academy and conducted by the Students, two literary societies—the Ciceronian and the

Irving. Each society has its own hall, which is neatly and tastefully furnished, and in which it holds weekly meetings.

The students of the Academy are also admitted to membership in the Denison University branch of the College Y. M. C. A., in the Scientific Association and in the Athletic Association of Denison University.

#### PUBLIC EXERCISES.

During the year the Literary Societies each hold three special public meetings—an "Extra" at about the time of the Thanksgiving recess, an "Annual" during the Winter, and a "Commencement" toward the close of the year. The graduating exercises of the Academy are held during the Commencement week of Denison University. Members of the class completing the work of the Academy participate in the programme. The diploma of the Academy is given to each student who completes in a satisfactory manner any of the regular courses of study.

#### DISMISSION.

No student who leaves the school before the close of a semester will be considered as having honorably severed his connection with the Academy unless he has been duly dismissed by the Dean.

Any further information may be obtained by communicating with the Dean of the Academy.

#### HONORS AND PRIZES FOR 1912.

##### *Scholarship Prizes, Alpha Delta Tau Badges.*

First Honor—Arthur Lowell Johnson.

Second Honor—Earl Chesshir.

##### *Election to Alpha Delta Tau.*

Arthur Lowell Johnson,

Earl Chesshir,

Paul Prior Rugg.

Roy B. Deer,

Jas. W. Gainfort,

Poul L. McCann.

*Kappa Zeta Key*, Blanche E. Dull.

*Sherwin Prizes.*

First Prize, Fifty Dollars, Nelson G. Rupp.

Second Prize, Twenty Five Dollars, Roy B. Deer.

*Competitive Oration,*  
William Clifton Jordan.

*Cicero-Irving Contest.*

Debate, Roy B. Deer.

Oration, W. W. VanKirk.

Essay, G. W. Edmunds.

Declamation, L. L. Anderson.

*Ewart Bible Prizes.*

Reading, First Prize, Cicero Society, Roy B. Deer.

Reading, Second Prize, Cicero Society, John Bjelke.

Essay, First Prize, Cicero, A. A. Cutler.

Essay, Second Prize, Cicero, J. W. Gainfort.

Reading, First Prize, Irving Society, James Macpherson.

Reading, Second Prize, Irving Society, L. L. Anderson.

### Schedule of Recitations

		7:30-8:30	8:30-9:30	10:00-11:00	11:00-12:00	1:30-2:30	2:30-3:30
FIRST YEAR.		Latin I. 5	Algebra I. 5	History I. 5		(Latin I. 5)	English I. 3 M. W. & F
SECOND YEAR.		History II. 3	Latin II. 5	(German I)	English II. 4	(Laboratory 2)	Physiology 5 1st sem. Botany 5 2nd sem.
THIRD YEAR.	Classical	Geometry 5	Greek I. 5		Latin III. 5	English III. 3 M. W. & F	
	Scientific	Geometry 5	(French I)	(German I)	(Latin III. 5)	(German I) English III. 3 (Laboratory 2) (French I)	Physical Geography 5 Chemistry 5
	Philosophical	Geometry 5	(French I)		(Latin III. 5)	English III. 3 (Laboratory 2)	Phys. Geog. 5 (Chemistry)
FOURTH YEAR.	Classical		English IV. 4	Doublers' Greek 5 (Greek III)	Greek II. (Physics 1st sem. 2 1/2)	(Solid Geom. 1st sem. 5) Algebra II. 5 2nd sem.	Latin IV. 5
	Scientific		English IV. 4	(Laboratory 2) (German II. 5.)	Physics 5 Lab. Tu. & Th Tec. M., W., F	(French II) (Solid Geom. 1st sem. 5) Algebra II. 5 2nd sem.	(Latin IV. 5)
	Philosophical		English IV. 4	(D's Greek 5.) (Laboratory 2.) (Greek III. 4) German II. 5	(Physics 1st sem. 2 1/2)	(Solid Geom. 1st sem. 5) and Algebra II. 5 2nd sem.	(Latin IV. 5)

## IV. Conservatory of Music

### FOREWORD.

Music in some form has always been taught in the educational institutions of Granville. For many years the work was of a semi-private character, but growing larger and more important, was taken under the management of Shepardson College for women. The rapid progress of the work led in 1894 to the organization of a Conservatory, the acquisition of a suitable building for teaching and practicing, and the building of Recital Hall adjoining. In 1900, the College and University were united, and the Conservatory of Music was separated from Shepardson College, becoming a co-ordinate part of Denison University. Thresher Hall, the Conservatory building, is now too small for all the demands upon it, and until a new building can be obtained, practice pianos are placed in nearby college buildings.

Musical instruction in the college curriculum has long ceased to be an experiment. Each year more colleges and universities are recognizing music in one or more of its branches as a legitimate and desirable part of a liberal education. Denison University has been progressive in this regard, first by granting college credit for work in the theoretical courses of the Conservatory, on an equal footing with any other elective study, and secondly by establishing, under the group system described elsewhere, one group (C8) leading to the degree of B. Ph., with Theory of Music as the major subject. This close affiliation between College and Conservatory has greatly encouraged the increasing enrollment of students from the literary department of the University who wish to acquire some serviceable knowledge of music as a part of their college course.

In most Conservatories the proportion of men students is small. This is probably the relic of an immemorial prejudice against the musician's profession, which in more recent years

has often had the effect of relegating music study to women, along with cooking and sewing. It is the aim of this institution to foster in every way a true sense of the dignity of music, both as a cultural study and as a branch of scholarship, and to bring the men in the University into closer touch with its musical life. The endeavor has always been to require of students, especially candidates for graduation, the broadest possible education, not only in music, but in other branches as well. No student can do satisfactory work in music without at least the foundations of a liberal education. Special attention is therefore called to the academic studies required for graduation, as well as the comprehensive requirements in musical theory.

The large number of concerts and recitals given each year by outside artists, by members of the Faculty, and by the various local organizations, together with the proximity of the abundant musical life of Columbus, afford greater opportunities to hear good music well executed than are enjoyed by many larger schools of music. Through strengthening of the course of study and broadening of the requirements for graduation, the standard of efficiency of graduates is constantly rising, and recent additions to the curriculum enable the Conservatory to offer a course as thorough as that of any school in Ohio.

#### FACULTY.

CARL PAIGE WOOD, A. M., A. A. G. O., Director.

*Theory and History of Music.*

Final Honors in Music, Harvard University. Studied Harmony and Composition there under Professors John K. Paine, Walter R. Spalding, and Frederick S. Converse, and at the New England Conservatory under Wallace Goodrich. Studied Piano under William A. Paull, and Organ under Henry M. Dunham, in Boston. Associate of the American Guild of Organists.

FANNIE JUDSON FARRAR,

*Head of Piano Department.*

Pupil in Piano of J. Emil Ecker, Toledo, Ohio; Constantin Sternberg, Philadelphia; Bertrand Roth, Dresden; Tobias Mat-



thay, F. R. A. M., and Claude F. Pollard, A. R. A. M., London. Student in Vienna in 1894. Pupil in Musical Kindergarten of Mrs. Fannie Church Parsons, Chicago.

JOHN MOYSES PRISKE.

*Head of Voice Department.*

Studied under Albert Vissetti, Sir John Santley, and Randegger in London; William L. Whitney in America, and Luigi Vannuccini in Italy. Made opera debut in Italy. Until 1911 teacher in the W. L. Whitney International School of Opera in Boston, with appearances in opera, oratorio and concert.

ELIZABETH BENEDICT,

*Organ and Piano.*

Pupil of Harrison Wild, Chicago, in Piano and Organ. Pupil of Alexander Guilman in Paris, summer of 1907. Colleague of the American Guild of Organists.

RUTH JEANNETTE BAILEY,

*Violin, Voice, and Solfeggio.*

Pupil of Carl Peirce, Mabel Stanaway-Briggs, and Samuel W. Cole, at the New England Conservatory of Music.

BERTHA ELIZABETH STEVENS,

*Assistant in Piano.*

Graduate of Denison Conservatory of Music, 1907. Pupil of Constantin Sternberg in Philadelphia.

CLARENCE D. COONS, M. S.,

*The Physical Basis of Music.*

Assistant Professor of Physics in Denison University.

RUTH ESTHER ROCKWOOD, A. A. G. O.,

*Assistant in Harmony.*

Graduate of Denison Conservatory of Music, 1910. Associate of the American Guild of Organists, 1911.

## OFFICERS OF ADMINISTRATION.

EMORY W. HUNT, D. D., LL. D.,  
*President of the University.*

ELMER E. HOPKINS, A. B.,  
*Treasurer of the University.*  
(Office in Doane Academy.)

CARL PAGE WOOD, A. M.,  
*Director and Registrar of the Conservatory.*  
(Office in Thresher Hall.)

ELIZABETH BENEDICT,  
*Secretary of the Conservatory Faculty.*

BERTHA E. STEVENS,  
*Conservatory Librarian.*

FANNIE J. FARRAR,  
*In Charge of Thresher Hall.*

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 Departments of Instruction
 

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- A. Course in Piano.
- B. Course in Voice.
- C. Course in Violin.
- D. Course in Organ.
- E. Course in Theory and History: 1-2, Appreciation; 3-4, Elementary Theory; 5-6, History; 7-8, Harmony; 9-10, Counterpoint; 11-12, Form; 13-14, Strict Composition; 15-16, Free Composition; 17-18, Physical Basis.
- F. Ensemble Classes: (a) Solfeggio, (b) Public School Music, (c) Normal Training, (d) Piano Classes, (e) String classes.
- G. Musical Organizations: (a) Engwerson Choral Society, (b) Denison Orchestra, (c) Denison Glee Club, (d) Shep-ardson Glee Club, (e) Sinfonia Fraternity.

## A. COURSE IN PIANO.

It is difficult to specify a set course adapted to the needs of all pupils, so it has seemed best to suit the work to individual requirements.

Great care is taken that the foundation work be thorough, the understanding of the action of the instrument coming first, then tone production through the natural laws that govern it, followed by technical facility and velocity.

A good technique is absolutely essential to satisfactory piano playing, but should be considered as a means to an end, not an end in itself. The effort should always be toward artistic interpretation, which is impossible without an adequate technique.

The course includes the study of music of both Classic and Romantic composers, and to this is added the principles of expression, which, in connection with a good tone production, constitutes the secret of playing with expression, so far as this can be taught.

The foremost educators of the day regard music as a "noble and valuable branch of social and personal culture," and as only a small proportion of persons are specially gifted musically, the effort is made to teach piano as a cultural study as well as a profession. Music is coming to be regarded as an essential part of a well rounded education, and the intelligent study of the piano and its literature is found to result in a mental development as great as that gained through other academic work.

## B. COURSE IN VOICE.

The object of this course primarily is correct placing of the voice, so that the tones are even and firm throughout the entire range. Particular stress is laid on proper control of the breath, rhythm, and phrasing, together with enunciation and stage presence.

The exercises and songs used are selected according to the requirements of the individual for continuous development in technical powers and interpretation. Use is made of the classic

song literature of all schools, especially the German, and from our own American song writers. Advanced pupils study Schumann, Schubert, Franz, Brahms, Beethoven, and arias from the standard oratorios and operas.

Effective practice is hardly possible without some familiarity with the piano. Candidates for graduation must have at least two semesters of serious piano study, and at least two semesters' training in the Chorus.

#### C. COURSE IN VIOLIN.

Good tone production and clear intonation will receive a large share of attention, then will follow studies and special technical exercises to meet the needs of the individual. As the student becomes more and more proficient, pieces, sonatas, and concertos by the classic and modern masters will be studied.

It will be the purpose, throughout the course, to work not only for technical proficiency, but also for the higher and broader plane of artistic conception and interpretation. At least two semesters of piano study are required of candidates for graduation.

Students are encouraged and helped in ensemble playing, and those sufficiently advanced are admitted to the University Orchestra. The experience thus gained is by no means the least valuable part of the training, and is required of candidates for graduation.

#### D. COURSE IN ORGAN.

A certain facility at the piano and in sight-reading is necessary before the course can be entered, and this must be proved to the satisfaction of the instructor, who may prescribe such additional work as may seem advisable in preparation. A good organ touch, comprising legato and staccato playing, steadiness and smoothness of style, are the objective aims.

Rink's Organ School, Buck's Studies in Phrasing and Bach's Little Preludes and Fugues compose the ground work of study. This is followed by sonatas by Mendelssohn, Merkel, Guilmant, selections by Widor, Dubois, Boellman, Lemare, Best, Hollins, Buck and Parker.

Special attention will be given to hymn playing, accompanying and registration to meet the practical needs of church work.

#### E. COURSE IN THEORY AND HISTORY.

In the so-called Theoretical classes the object is not so much to develop the latent powers of possible future composers, although this is provided for, as to educate all students in the intelligent appreciation and enjoyment of music. To this end, besides the strictly technical courses more general ones are offered, such as those in History and in Appreciation, requiring no previous musical training. Considerable time is taken in all classes for discussion and analysis of the best examples available bearing on the subject under discussion. At the same time, due emphasis is laid on technical study and original work, as the best preparation for study of the works of the masters.

In the technical classes the laboratory method mainly is pursued. The students work out exercises on the board, subject to criticism and discussion by the instructor and the class, while original expression of musical ideas is constantly sought for. Students are urged to make practical every-day application of their theoretical knowledge.

College credit may be obtained for any of the numbered courses. Those who intend to complete the Theoretical course are advised to take courses 3-4, 7-8, 9-10, and 13-14 in consecutive years. See also the schedule of Group C8 on page 87. The description of the courses follows:

1-2. *The Appreciation of Music*.—MR. WOOD.

One hour per week, both semesters. Monday, 8:30 A. M.

This is an entirely non-technical course, and is open without restriction to all students of the University. The appreciation of good music depends on the ability to listen intelligently. The object of the course, therefore, is to point out the structural principles of musical art, and to show clearly what constitutes real merit in any of the varied fields of musical activity. The work will consist of lectures and analysis, with collateral reading and critical reports of the various current recitals.

3-4. *Elementary Theory of Music*.—Mr. WOOD.

One hour per week, both semesters. Thursday, 8:30 A. M.

This work, or its equivalent, is a required introduction to all higher courses. The elements of music are summarized, and the modern system of musical notation is studied in detail, including the signs and directions used in printed music, and the analysis of rhythms. Ample practice is given in scale writing, transposition and the use of all the clefs, with the notation peculiar to various instruments. The work concludes with an elementary study of intervals and triads, with their inversions, preparatory to the course in Harmony.

5-6. *History of Music*.—Mr. WOOD.

Three hours per week, both semesters. Monday, Wednesday and Friday, 1:30 P. M.

This is a literary course, and requires no special musical training, although this is very advantageous.

The work consists largely of assigned reading and comparative study by the student, with written reports, tests and theses. The emphasis is laid on investigation of the far-reaching causes and effects of the various phases and the interrelations of the different periods in the evolution of the art, rather than on the memorizing of names and dates. The Conservatory collection of primitive instruments is used to illustrate the early stages of music, while as far as possible typical music of the successive periods is played in class. The Conservatory library of over seven hundred volumes is freely drawn upon rather than any one text-book.

7-8. *Harmony*.—Mr. WOOD.

Three hours per week, both semesters. Monday, Wednesday, and Friday, 11:00 A. M. Prerequisite, *Solfeggio* and *Elementary Theory*, or their equivalent.

Knowledge of the pianoforte adequate at least to play an ordinary hymn-tune at sight is necessary in the study of harmony.

Reviews of intervals and triads; dominant and secondary chords; suspensions; augmented and altered chords; modula-

tions; organ-point. The work consists of the harmonization of given melodies in bass or soprano, mostly in four parts, and the composition of original pieces in simple style. These are written both on the blackboard and outside the class-room, and corrected and discussed by the instructor. After revision the exercises are copied into note books and kept for reference. As far as practicable demonstration at the key-board is demanded from each member of the class.

9-10. *Counterpoint*.—MR. WOOD.

Three hours per week, both semesters. Monday, Wednesday and Friday, 10:00 A. M. Prerequisite, courses 7-8.

Some proficiency in piano playing is necessary. The principles of harmony are applied to the melodious treatment of two or more voice parts in combination. The work includes free harmonization of choral melodies, two, three and four-part counterpoint in the several orders, contrapuntal and imitative treatment of subjects in different voices for organ or strings. Opportunity is given for original work, and practice is afforded in reading and playing quartets, etc., from open score.

11-12. *Musical Form*.—MR. WOOD.

Two hours per week, both semesters. Tuesday and Thursday, 10:00 A. M. Prerequisite, courses 7-8.

This course has for its ultimate aim the intelligent appreciation of music and a wide acquaintance with the best of it, as well as some insight into the technique of composition. While it cannot be taken to advantage without a knowledge of harmony, it may by permission be taken in the same year as courses 7-8.

Study of thematic construction and elements of composition, consisting chiefly of the analysis (both in the class-room and independently by the student) of the principal instrumental forms, as illustrated by the works of the great composers, classic and modern. These works are, so far as is possible, actually performed in class. The player-piano is an invaluable adjunct to the equipment of the course, since with its aid students can by constant repetition become familiar with orchestral and other

works to a degree not otherwise possible. The library contains a comprehensive selection of roll music to which the class has access. Practice is given in construction of the smaller musical forms, such as hymn-tunes, and the dance forms of the classic suite.

13-14. *Strict Composition*.—MR. WOOD.

Two hours per week, both semesters. Tuesday and Friday. 8:30 A. M. Prerequisite, courses 9-10.

Proficiency in pianoforte or organ playing is necessary. This course consists of the analysis and composition of the advanced forms of polyphonic music, and requires a command of the technique of harmony and counterpoint. It is a necessary preparation for the larger and freer forms of composition.

15-16. *Free Composition*.—MR. WOOD.

Two hours per week, both semesters. Tuesday and Thursday, 11:00 A. M. Prerequisite, courses 9 to 12.

In the first semester the technical facility acquired in the earlier courses is applied to the making of original vocal settings of selected texts. Considerable time is devoted to the analysis of standard choral works and songs. The student composes short pieces for men's voices, for women's voices, and for mixed chorus, unaccompanied. Later various types of accompaniment figures are studied, and settings are made with piano or other accompaniment. Solo songs for the various voices are also written.

The work of the second semester consists of the analysis and composition of vocal and instrumental music in the larger forms, with instruction and practice in writing for orchestral instruments separately and in combination. Practice is given in reading from vocal and orchestral scores.

17-18. *The Physical Basis of Music*.—ASSISTANT PROFESSOR COONS.

One hour per week, both semesters. Monday, 2:30 P. M.

This is a lecture course given by the University Department of Physics, without prerequisites either in music or science.



With the aid of ample apparatus are demonstrated the fundamental laws of acoustics, on which depend the production and character of musical tones. The nature of scales, intervals and chords is discussed, and a theoretical study is made of the construction and qualities of various musical instruments.

#### F. ENSEMBLE CLASSES.

(a) *Solfeggio*.—MISS BAILEY.

One hour per week, both semesters. This work, or a satisfactory equivalent, is required of candidates for graduation in any department of the Conservatory.

The course is provided to meet the needs of all who are in any degree deficient in the fundamental principles of music, such as rhythm, intervals, scales, etc., or who are unable to read vocal or instrumental music readily at sight. It includes both ear-training and sight-singing. The pupils are trained to write, in correct notation, musical phrases which are played or sung to them, beginning with the simplest phrase in the major mode, and progressing until difficult melodies in either major or minor can be notated with facility. The sight-singing course begins with the simplest intervals and rhythms, progressing by easy stages until it includes the most difficult passages to be found in modern vocal music.

(b) *Public School Music*.—MR. PRISKE.

One hour per week, both semesters, or two hours per week, one semester. Time to be arranged.

In this course the aim is to give an equipment for successful work in teaching public school music. The instruction is along broad lines, and a knowledge of the fundamental facts to be taught is presupposed. The effort throughout the entire course is to develop clearly and thoroughly the principles of pedagogy and psychology that apply to such teaching, and to show by actual demonstration the manner in which to apply these general principles to the special problems of the several grades. The work of the course is based upon the Normal Music Course and the Modern Music Series used so successfully in the Boston and

Brookline schools. The training, however, is broad enough to enable the student to use any other text-books in his teaching.

(c) *Normal Class*.—MISS FARRAR.

This course is offered primarily at the request of piano students, but will include nothing not of advantage to any music student who intends to teach, since the study of the piano is necessarily the foundation for the teacher of any branch of music.

The course will present the best methods of teaching notation, rhythm, and elementary theory, as well as the relation of psychology to music, the principles of expression for interpretation, applicable to the rendition of all music, and the principles of tone-production on the piano.

The class will meet one hour a week for both semesters. One semester of Theory or Solfeggio is required for entrance. The course may be extended and broadened later if the demand seems to warrant it.

(d) *Piano Classes*.—MISS FARRAR.

Ensemble classes are maintained in piano, both duet and quartette work being done. The classes are free, and this work is required of all pupils sufficiently advanced.

(e) *String Classes*.—MISS BAILEY.

As far as material offers itself practice is held in trio and quartette work, with performance in public on suitable occasions. Advanced pupils are coached in ensemble with piano.

## G. MUSICAL ORGANIZATIONS.

(a) *The Engwerson Choral Society*.—MR. WOOD, DIRECTOR.

Membership is open to all who can read music sufficiently well. The dues are fifty cents each semester. Two principal concerts are given each year, with notable artists assisting. According to the present custom, Handel's "Messiah" is sung each year at Christmas, while Geibel's "Nativity," Rossini's "Stabat Mater," Mendelssohn's "Hymn of Praise" and

"Elijah," Brahms' "Song of Fate," Bruch's "Fair Ellen," Ware's "Sir Oluf," Debussy's "Blessed Damozel," and Haydn's "Creation" are other works recently given. Rehearsals are held on Monday evenings throughout the college year.

(b) *The Denison Orchestra*.—MR. WOOD, DIRECTOR.

Membership is not limited to students enrolled in the University, but offers to anyone of sufficient ability the opportunity of playing classical and modern composition under suitable direction. The Orchestra assists the Choral Society in presenting some of its oratorios, besides giving at least one concert independently in the spring. Regular rehearsals are held on Thursday evenings throughout the college year. Membership is free to those admitted.

(c) *The Denison Glee Club*.—KARL RICHTER BABB, DIRECTOR.

This is an organization of twenty young men chosen by annual competitive examination from the men of the University community. It is now entering upon the seventh year of its career with prospects for a very successful season. About twenty concerts are given each year, engagements being filled in Ohio, Pennsylvania, New York, Michigan, Indiana, and Illinois. The programmes are made up of classical numbers, popular glees, and college songs.

(d) *The Shepardson Glee Club*.—HARRIET ELIZABETH HAGGARD, DIRECTOR.

This club consists of twenty-four girls, and with the exception of the officers is reorganized each Fall by competitive examination. The annual concert is given early in May, and last December an extra programme was presented, which was repeated in Newark. The club comprises the best voices of Shepardson College and the Denison Conservatory, and is steadily growing in efficiency.

(e) *The Sinfonia Fraternity*.—In June, 1912, a chapter of Phi Mu Alpha (Sinfonia) was installed at Denison, for the purpose of uniting the men of musical interests. A violoncello recital by Hans Kronold was presented in December, and other activities are planned.

## Requirements for Graduation

### MUSICAL STUDIES.

Candidates for graduation must select one branch of applied music and pursue it to the satisfaction of the head of that department. No fixed course is set, and obviously no definite time can be given for the satisfactory completion of this part of the work, but ample opportunity is given for gauging the candidate's progress by means of the Student Recitals, both public and private.

In the Voice and Violin Departments candidates are required to pursue the study of the piano sufficiently (two semesters at a minimum) to enable them to play easy accompaniments at sight. All candidates for graduation are required to sing in the Chorus or play in the Orchestra for at least two semesters.

Theoretical work required in all departments comprises two semesters each of Solfeggio, Appreciation, Elementary Theory, History, Harmony, Counterpoint, Form, Strict Composition, and Physical Basis as described above.

### LITERARY STUDIES.

In addition to the musical studies required, candidates for graduation must satisfy the full requirements for entrance to the Freshman Class of Denison University, and complete one year of French, German, or Italian, and one year of English equivalent to that of the Freshman year in Denison University. Evidence that this work has been completed elsewhere will be accepted upon the same terms as in the Colleges.

### THE DIPLOMA.

The Conservatory Diploma is granted on recommendation of the head of a department to students who have completed the course of study prescribed for that department, and have given evidence of requisite musical ability. Candidates for the Di-

ploma must give proof of artistic promise by giving a public recital in their Senior year.

### THE CERTIFICATE.

The Conservatory Certificate is granted on the completion of a prescribed course in no wise shorter or easier than the Diploma course. The only difference in the requirements is the substitution of work in either Normal Training or Public School Music for the public Graduating Recital, and proof of some aptitude for teaching.

### INCOMPLETE COURSES.

Students who complete satisfactorily not less than a year's work in any department, or any course in Theory, Public School Music, or the like, may obtain a statement to that effect, signed by the instructor concerned, together with a copy of the Registrar's record.

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## Expenses

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No student is enrolled in any department until settlement has been made with the Conservatory Registrar and the University Treasurer.

Bills of \$25.00 or less are due at registration.

If bills amount to more than \$25.00, one half is due at registration, and the remainder at the middle of the semester.

A fine of one dollar is imposed on a student who reports to the Treasurer later than one day after registering.

The fee for the Conservatory Diploma or Certificate at graduation is two dollars.

#### EXPENSES BY SEMESTER.

Tuition in Pianoforte, Voice, Violin or Organ—private lessons, one hour per week.....	\$ 30 00
Tuition in Pianoforte, Voice, Violin or Organ—private lessons, one-half hour per week.....	17 00
Tuition in Pianoforte or Voice under Head of Department—private lessons, one hour per week.....	40 00

Tuition in Pianoforte or Voice under Head of Department—private lessons, one half hour per week	22 00
Tuition in Harmony, Counterpoint or History of Music—class lessons three hours per week	12 00
Tuition in Fests, Canon and Fugue, or Composition—class lessons two hours per week	8 00
Tuition in Apprehension, Elementary Theory, Solfeggio, Public School or Normal Training—class lessons one hour per week	4 00
Rent of practice piano, per hour per week	1 00
Rent of organ, per single hour	15

Tuition fees include such incidentals as the use of the reference and sheet music libraries, and admission to one Artist Concert each semester.

An annual scholarship, the gift of Mrs. E. S. Shepardson, of Boston, is at the disposal of the Conservatory Faculty.

The attention of Conservatory students is called to various courses described elsewhere in this catalogue, especially those in Languages, Fine Arts, Public Speaking, Hygiene, and Physical Training.

Students taking two or more lessons per week in the Conservatory and ten hours or less in the College are charged at the rate of four dollars per semester hour for the college studies. This provision applies to the course known as Music 17-18, it being offered in the College and not in the Conservatory.

## General Information

There are no formal entrance requirements beyond the evidence of ability to profit by the instruction offered. The work of the year is divided into two semesters (see the University Calendar on page 4), and students may best enter the Conservatory at the beginning of a semester, although private lessons may be taken up at any time. No registrations are accepted, however, for less than the remainder of the semester. In case of illness or other sufficient reason, students withdrawing before the middle of a semester may receive a rebate of a trifle less than half of their tuition and practice fees.

The Sheet Music Library furnishes the necessary music for students including a selection of symphonies, sonatas, etc., in

duplicate for analysis by the classes in theory. The fee for the use of this music is included in the tuition fee. A Music Store is maintained by the Conservatory, through which students can purchase text-books, music, etc., at discount prices.

The music branch of the University Library, consisting of over seven hundred volumes of literature and music, is housed at the Conservatory, and is available on the same terms as the main library. There is also a collection of primitive musical instruments of great interest, most of which have been presented by Denison alumni.

The Conservatory is equipped with practice pianos of the highest grade. Hours and rooms for practice should be engaged at the time of registering, and no other use of instruments or rooms is allowed without special permission.

Semi-private Student Recitals take place frequently throughout the year, and students are expected to attend. A public recital is given by the more advanced students near the end of each semester. All students are under obligations to perform at recitals when so directed by their instructor. In justice to all concerned, students are not allowed to perform in public without the knowledge and consent of the instructor.

At the end of each semester a report of each student's work is sent home. Fuller information of this kind will be gladly furnished at any time by the instructors or by the Director.

Besides the festivals of the Choral Society and various other concerts, a number of Faculty Recitals are given during the year, and several Artist Recitals, most of which are free to Conservatory students. Each year a historical series of recitals is given, presenting informally the music of individual composers or periods. An operetta is given each spring by students in the voice department and others.

The following artists have appeared in Granville and Newark during the past few years, some of them more than once: Sopranos—Grace Bonner Williams, Lucile Stevenson, Edith Sage MacDonald, Millicent Brennan, Caroline Hudson-Alexander, Lorene Rogers-Wells. Contraltos—Maude Wentz Mac-

Donald, Elsa Hirshberg, Ernestine Schumann-Heink, Elizabeth Thompson Wilson, Jane Lang Graninger. Tenors—Cecil James, Charles Hargreaves, Joseph Schenke, George Harris, Jr., Walter Earnest, Claude Saner. Baritones—Cecil Fanning, Arthur Leroy Tebbs, Henry Irving Fisher, Walter Bentley Ball. Basses—Oley Speaks, Ernest Gamble, Julian Walker, William Harper, Marcus Kellerman, Giuseppe Campanari. Pianists—William Sherwood, Augusta Cottlow, Hans Richard, Julian Pascal, Edith Haines-Kuester. Pianist-Lecturers — Harry Brown Turpin, Edward Baxter Perry, Theodor Bohlmann. Violinists—Sol Marcossou, Otto Meyer, Francis MacMillan, Emil Sturmer. Violoncellists—Charles Heydler, Hans Kronold. The Cleveland Philharmonic, the Spiering, and the Olive Mead String Quartettes. The Marcossou-Heydler Trio. The Cincinnati, the Columbus, and the St. Paul Symphony Orchestras.

For further information in regard to the Conservatory of Music, address Carl Paige Wood, Director, Granville, Ohio.



## V. School of Art

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LAURA B. PARSONS, Director.

*Drawing, Painting, Composition, and Design.*

Graduate of the Art Department of Shepardson College; student in the Metropolitan Art School, of New York City, and in the Friedrich Fehr School of Art, of Munich.

CARRIE MARIE HOWLAND,

*China Painting.*

SARAH H. SEYMOUR,

*Arts and Crafts.*

Special Diploma in Fine Arts from the Teachers' College of Columbia University.

BLANCHE G. LOVERIDGE, A. M.,

*History of Art.*

### COURSE OF STUDY.

*First Grade.*—Geometrical solids in outline—also in light and shade.

Principles of elementary perspective.

Cast drawing from historic ornament; masks; hands and feet; details of human face.

Simple studies from still life.

Out-of-door sketching in pencil, chalk, and ink.

Design and composition.

*Second Grade.*—Advanced cast drawing from full length figure. More elaborate studies from still life. Design and composition. Still life in oil or water colors. Out-of-door sketching in water colors.

*Third Grade.*—Cast drawing from the full length figure. Drawing from life costumed model. Composition. Life studies

in oil and water colors. Advanced work in still life. Flower studies and interior compositions. Landscape painting in water colors and oils. Especial attention is given to variety of light effects.

#### CHINA PAINTING.

The work in china painting is conducted according to the best modern methods in technique and design.

#### METAL WORK AND ELEMENTARY JEWELRY.

The standard of work in this department is that of the old craftsmen—that a thing must be suited to its use, well made, and beautiful.

The class in hammered metal begins with the shaping of bowls and trays, and the construction of light fixtures, or table silver, is easily within the reach of the average student. The jewelry work includes the making of rings, pins and pendants, and only genuine stones are used.

In connection with the Metal and Jewelry course is a course in *Simple Design*, to aid the pupil in correct proportions, spacing etc. The course begins with simple line designs, and later on, colors, worked into wood block printing.

In addition to the courses described above, the Director of the Art School offers a two-hour course in Theory of Art, open to all College students, and a one-hour course in Free Hand Drawing, open to all Freshmen who may need it in order to meet the requirements of some particular group, or may desire it for purposes of their own. College credit is allowed for this work in any of the regular courses, and aside from these special courses, credit may be obtained for work in drawing on the laboratory basis of a one-hour credit for two hours' work.

### General Information

Those registered for regular work in the Art School are admitted, free of charge, to the Class in History of Art, which embraces the study of architecture, sculpture, painting and the

lives of the great masters. These courses in History of Art must be taken as a condition of graduation. A thesis in art is required from each applicant for graduation.

An Art Reception will be given during Commencement week, at which time the work done in the studio during the year will be on exhibition. For this reason it is important that the work be left in charge of the Director of the Department until the close of the year.

Pupils will receive certificates from the Art Department after having completed the required course of three years. No such certificate will be given, however, to any student whose general educational attainments are not sufficient to admit to Freshman standing in the University.

#### TUITION.

The tuition is the same for each semester, as follows:

Painting, Water Colors .....	\$25 00
Oil Colors .....	25 00
On China .....	25 00
Black and White .....	25 00
Arts and Crafts .....	25 00

Students taking full time in the School of Art and less than ten hours in the Literary Department will be charged at the rate of \$4.00 per semester hour in the Literary Department.

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## Home Economics and Household Art

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EUGENIA E. FINLEY, Director.

*Cookery, Dietetics, Chemistry of Foods, Household Management, Sewing, Basketry.*

#### COURSE OF STUDY.

A course of study is offered comprising two years, and combining the special work of this department with certain courses in other departments, as indicated in the following paragraphs:

*First Year.*—English 1-2, Personal Hygiene 19-20. Element-

ary Chemistry 1-2, General Biology 1-2, Cooking 1-2, Sewing 1-2, Basketry 1, Design 2, Chemistry of Food 1-2, Household Management 1, Household Hygiene 2.

*Second Year.*—Philosophy 1, Elementary Psychology 1-2, Zoology (9) 1, Botany (14) 2, Bacteriology (11) 1, Appreciation of Art 2, Pedagogy 1, Domestic Architecture 2, General Physics 1 2, Cooking 1, Dietetics 2, Sewing 1-2.

#### OUTLINE OF WORK.

*Cookery.*—Study of fuels and equipment of kitchen, general principles of cookery, illustrated by the preparation of simple and more elaborate dishes, utilization of left-overs, serving of meals.

*Chemistry of Foods.*—Study of food products, their chemical composition, and the chemical changes involved in their preparation. Study of the most important elements, Proteids, Carbohydrates, fats, mineral matter, water and their chief compounds. Food relation to the body. Effect of alkalies and acids. Fermentation and putrefaction. Processes of drying, salting, smoking, canning and preserving. Planning of menus.

*Dietetics.*—Study of digestion, absorption and assimilation of food constituents. Dietary standards. Planning of menus according to these standards. Planning and preparing of special diets for the sick.

*Household Hygiene.*—The house, its location, lighting, heating, ventilating, disposal of wastes and plumbing—all with reference to health. House furnishings.

*Sewing.*—Hand sewing, including hemstitching, darning, felling, gathering, and button-hole making.

*Machine sewing.*—Tucking, hemming, ruffling, etc.

*Dressmaking.*—Cutting and fitting—Shirtwaists, summer dresses, fitted linings and tailor work—all full sized garments.

*Design.*—Design for costumes, embroidery, basketry, and all household decorations—educating the student to appreciate good design.

*Basketry.*—The fundamental principles of the art of weaving are taught, using both raffia and reed. Dyeing of both reed and raffia is also studied.

*Household Management.*—The Theory of Housekeeping, Business Customs and Accounts, Marketing, Laundry, etc.

Other subjects included in the two years' course outlined above and not described in the immediately preceding paragraphs are taken with the regular college classes, and a full description of each course will be found in the statement of the department to which it belongs. (Consult the General Index at the close of the volume.)

*Admission.*—Students are admitted to the special studies in this department at any time, but are strongly advised to enter at the beginning of a semester. They should be eighteen years old and prepared to do well the work of the first year. All special students in this department are required to take physical training.

*Expenses.*—

Cooking, two hours per week for one semester.....	\$15 00
Sewing, two hours per week for one semester.....	12 00
Basketry, two hours per week for one semester.....	12 00

In cooking, all supplies are furnished, with no additional expense to the student. In sewing, each student furnishes her own materials, and may determine the quality of the same.

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## Society of the Alumni

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The Society of the Alumni was organized in 1859. All graduates of the University in honorable standing, without regard to sex, are considered as members. Former students who did not graduate are admitted as associate members. In 1907 the Society prepared a volume of nearly three hundred pages, containing a general catalogue of alumni together with much historical material covering the origin of the college and its development during the three-quarters of a century ending with the Commencement of June, 1906. Since that date an annual bulletin

tin has been published, giving changes in addresses and occupation and other important information concerning the Alumni. The Society also issues a Quarterly Bulletin, devoted to the general interests of the University, and published from Chicago, under the editorial management of Samuel B. Brierly, class of '75, President of the Society.

The officers of the Society for the current year are:

President.....	SAMUEL B. BRIERLY, '75
	106 North LaSalle St., Chicago, Ill.
Vice President.....	WALLACE H. CATHCART, '90
	Cleveland, Ohio.
Secretary-Treasurer.....	W. H. JOHNSON, '85
	Granville, Ohio.

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### Alumni Teachers' Agency

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As requests for teachers frequently come to various teachers and officers of the University, an agency has been organized to assist worthy applicants who are educated here in securing positions to teach. Friends of Denison University who as members of school boards or otherwise have influence in filling teaching positions are cordially invited to correspond with this agency, and are assured that all recommendations given will be based on actual merit. Address,

DENISON TEACHERS' AGENCY,  
Granville, Ohio.

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### Phi Beta Kappa

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The standing of Denison University has received significant recognition by the action of the Senate and Council of Phi Beta Kappa, in granting a charter for the organization of a chapter in Denison. This society was established for the express pur-

pose of recognizing and fostering high scholarly attainment in college work, election to membership being confined to Juniors and Seniors who have shown themselves qualified for such an honor on that basis. The Denison chapter is known as the Theta Chapter of Ohio. The chapter was duly installed, and the charter delivered, by the National President of the Society, Dr. Edwin A. Grosvenor, on the eighteenth of January, 1911.

## Denison Summer School

A Summer session of Denison University will be held at Summerland Beach, a point on Buckeye Lake. Summerland is most easily reached by going to Millersport, on the Ohio Central railroad, as it is just outside Millersport.

### TIME.

The Summer School will last six weeks, beginning June 23d and closing August 1st.

### FACULTY.

The faculty will be mainly members of the regular faculty of Denison University. In addition to these a number of men of wide reputation as educators have been secured from elsewhere for a series of lectures designed especially for teachers.

### EQUIPMENT.

The equipment of Denison University, as far as needed for the courses offered, will be transferred and placed at the disposal of those in attendance.

### COURSES OFFERED.

Courses will be offered in History, English, Latin, Mathematics, German, Chemistry, Physics, Botany, Physiology, Astronomy, Agriculture, Music, Oratory, and general review courses in the common branches of special interest to teachers. Courses will also be offered in Primary Methods. These will be under the direction of a trained specialist in this line.

### CREDITS.

It has been arranged that full credit for work satisfactorily done in the Summer School will be given in the University, or Doane Academy, as the case may be.



## EXPENSES.

The necessary expenses will be moderate. The entire cost of the Summer term need not exceed \$35.00, and it may be brought somewhat below that amount for those who are willing to economize.

For detailed statement as to courses of instruction, expenses, etc., write to

C. E. GOODELL, Director,  
Granville, Ohio.

## Degrees Conferred in 1912

### HONORARY.

*Doctor of Laws:*

Lewis E. Hicks, Ph. D., Berkeley, California, President  
Emeritus of Rangoon College, Burma.

*Doctor of Laws:*

Rev. Cornelius Woelfkin, D. D., Pastor of the Fifth Avenue  
Baptist Church, of New York City.

*Doctor of Laws:*

G. M. Peters, Esq., Cincinnati, Ohio.

*Doctor of Divinity:*

Rev. F. P. Briggs, Pastor of the Baptist Church, Morgan-  
town, W. Va.

*Doctor of Divinity:*

Rev. E. Bruce Kinney, Topeka, Kansas, District Secretary  
of the American Baptist Home Mission Society.

*Doctor of Divinity:*

Rev. George T. Webb, of the American Baptist Publication  
Society, Philadelphia, Pa.

### MASTER OF ARTS.

William Oliver Greene,

Olive Ann Jenkins

### MASTER OF SCIENCE.

JOHN BROCKENBOROUGH WOODWARD.

### BACHELOR OF ARTS.

JOSEPH HAYES COBY,  
WILLIAM HENRY CUTLER,  
FREDERICK MILTON DERWATER,  
ALBERT MILTON DIXON,  
FRANK LESLIE FLEESER,  
EDWARD PAVSON LUNNELL,

RAYMOND B. STEVENS,  
WILLIS SOUTER WERR,  
FRED ELLSWORTH WOLF,  
JUANITA STEPHENSON BOND,  
ETHEL DEMING,  
JENNIE GRACE TRACY.

## BACHELOR OF SCIENCE.

ROBERT MCBETH ALLBAUGH,  
 JOSEPH HASKELL BOUTWELL,  
 SCOTT WILLIAM CAMP,  
 BEN CHARLES FORSYTHE,  
 KARL WILHELM FRASCH,  
 RUSSELL EZRA KIMMELL,  
 ROBERT FRANKLIN MCCANN,  
 PAUL DAVID MORROW,  
 CLAUDE STARR MORTON,  
 TRACY MINARD PATRICK,

LOUYS ANTHONY RUMSEY,  
 MANLY HARRISON SHIPLEY,  
 CLIFFORD SCOTT STILWELL,  
 IVAN RAY TANNEHILL,  
 DEXTER JUNKINS TIGHT,  
 CHARLES BLOUNT VANCE,  
 STAFFORD RIDDLE WEBB,  
 DAVID ELMER WOODS,  
 JULIA SARAH MOORE.

## BACHELOR OF PHILOSOPHY.

CHARLES ELLSWORTH DAVIS,  
 WILLIAM EVIN HUFFMAN,  
 DONALD NEWTON JEWETT,  
 WARREN DEMPSEY MILLER,  
 MAX BRADLEY NORPELL,  
 CHESTER ALDRITH POE,  
 ARTHUR ALBERT SCHAUWECKER,  
 HENRY WALTER STEVENS,  
 GEORGE RUSSELL STRAYER,  
 JOHN ALVIN THOMPSON,  
 SUMIO UESUGI,  
 HOMER EDGAR WICKENDEN,  
 MARIETTA BALL,  
 HARRIET NEWELL BRITTAN,  
 NETTIE KATHERINE COURTNEY,  
 EVANGELINE DAVIES,  
 EDNA LUELLA EDWARDS,  
 AGNES BERTHA EWART,

MILDRED ALICE HAWKE,  
 MARJORIE FRANCES HOLDEN,  
 HELEN JOAN HULTMAN,  
 EDITH ANNA LONGBON,  
 BERTHA MAE MCCRABY,  
 RUTH MATHER,  
 GRACE EMELE MILLER,  
 MABEL LOUISE MOORE,  
 BEATRICE ELIZABETH O'NEAL,  
 EDITH MARGARET PHILBROOK,  
 LULU MARGARET POUND,  
 EMILY EVELYN SAYRE,  
 CECILE BELLE SHREVE,  
 MARGARET SMITH,  
 META AMANDA STEVENS,  
 FLORENCE EDNA WILSON,  
 JANE ANN WILLIAMS.

## ASSOCIATE IN LITERATURE.

RUTH ISABEL HOPKINS,

HAZEL LUCILE GREENE.

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 Honors and Prizes Awarded in 1912
 

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*Special Honors in English:* MARIETTA BALL, HELEN J HULTMAN.

*Special Honors in German:* FLORENCE EDNA WILSON.

*Special Honors in Mathematics:* ETHEL DEMING, MARGARET SMITH.

*Special Honors in Zoology:* JULIA S. MOORE.

Special Honors in History were awarded to Newton H. Carman in 1911, but the usual announcement was omitted from last year's catalogue by error.

*The Lewis Contest:* Debate, GEORGE F. FINNIE Franklin; Oration, RAYMOND C. MOORE, Franklin; Essay, ARCHIE RAY TUTTLE, Franklin; Declamation, no award.

*The Samson Talbot Bible Reading Prizes:* First prize, HENRY WALTER STEVENS; Second prize, RAYMOND C. MOORE.

*The Francis W. Shepardson History Prizes:* First prize, MAX B. NORFELL; second prize, MARGUERITE M. McNUTT.

*The Senior English Prizes:* For young men, first prize, FRED E. WOLF; second prize, FREDERICK M. DERWACKER. For young women, first prize, JULIA S. MOORE; second prize, EDITH M. PHILBROOK.

*Medal for Excellence in Debate,* R. B. STEVENS.

# Students in Granville College Classes

## GRADUATE STUDENTS.

- CARRIE B. ALLEN, A. B., Newark, *Latin*.  
JUANITA STEVENSON BOND, A. B., Granville, *Latin*.  
NETTIE KATHERINE COURTNEY, B. Ph., Freeport, Ill., *German*.  
SCOTT WILLIAM CAMP, B. S., Mt. Vernon, *Zoology*.  
THEODORE S. JOHNSON, B. S., Granville, *Physics*.  
LOUYS ANTHONY RUMSEY, B. S., Stryker, *Chemistry*.

### Senior Class.

- |                                   |                          |
|-----------------------------------|--------------------------|
| EDWARD RAYMOND ASHCRAFT, Sc.,     | Howard.                  |
| ROBERT MILTON ASHLEY, Sc.,        | Newark.                  |
| KARL RICHTER BABB, Sc.            | Xenia.                   |
| GEORGE ELMER BLACK, Cl.,          | Mt. Vernon.              |
| JOSEPH EDWARD BOMAN, Sc.,         | Thurston.                |
| HARRY HAMILTON BURNHAM, Sc.,      | Medina.                  |
| WILLIAM JORDAN CURBIN, Ph.,       | Marion.                  |
| CHARLES RUSSELL DEETER, Sc.,      | Sault St. Marie, Ont.    |
| HAROLD ELDON DUNLAP, Sc.,         | Urbana.                  |
| EDWIN THOMAS EDWARDS, Sc.,        | Ironton.                 |
| GEORGE FERGUSON FINNIE, Cl.,      | Newton-on-Ayr, Scotland. |
| KENNETH LEMMON HALL, Sc.,         | Newark.                  |
| WALDO HUNTLEY HEINRICH, Sc.,      | Granville.               |
| CHESTER HOYT HILL, Ph.,           | Osaka, Japan.            |
| WILLIAM WALTER HOLT, Sc.,         | Troy.                    |
| ASHLEY COLLETT INWOOD, Ph.,       | New Burlington.          |
| FREDERICK WILLIAM MADSEN, Sc.,    | Clark Grove, Minn.       |
| QUINCY ALLEN MAIN, Sc.,           | Ashley.                  |
| HUBERT HORATIO MARTIN, Sc.,       | Seattle, Wash.           |
| LESTER EDWIN MITCHELL, Ph.,       | Cambridge.               |
| RAYMOND CECIL MOORE, Cl.,         | Beaver Dam, Wis.         |
| RUEL ERNEST NOTTINGHAM, Sc.,      | Conneaut.                |
| EARL HAGGERDORN NOYES, Sc.,       | East Greenwich, R. I.    |
| FRANK DENMAN OLNEY, Sc.,          | Coshocton.               |
| CHARLES HENRY READ, Sc.,          | Xenia.                   |
| CLIFFORD ENERICK REICHARD, Sc.,   | Troy.                    |
| CLARENCE EARL RICHARDS, JR., Ph., | Columbus.                |
| EDSON COLDREN RUPP, Ph.,          | Braintree, Mass.         |
| DON CARLETON SIMKINS, Sc.,        | Newark.                  |

ARCHIE RAY TUTTLE, Ph.,	Mt. Gilead.
RICHARD WATKIN WATKINS, Sc.,	Granville.
RAYMOND RUSSELL WEAVER, Sc.,	Zanesville.
HOWARD WILLIAM WERT, Ph.,	Defiance.
JAMES WATSON WELPE, Cl.,	Ironton.

## Junior Class.

ALBERT MCKAY AKERS, Ph.,	South Euclid.
ELBERT LEWIS BARR, Ph.,	Xenia.
EUGENE JUDSON BARNES, Sc.,	Dayton.
LESTER JAMES BLACK, Sc.,	Newark.
CHARLES CLAYTON BROWN, Sc.,	Haskins.
CASTLE MARLATT BROWN, Ph.,	Joliet, Ill.
LOUIS LUDEN BRUCE, Sc.,	Garrettsville.
MAXWELL THOMAS BURNHAM, Ph.,	Medina.
JOHN SHINEMAN CLARK, Sc.,	Hampton, Iowa.
GEORGE DEARMOND CURTIS, Sc.,	Clarksburg, W. Va.
JOHN NORMAN DABROW, Ph.,	Cleveland.
EDWARD HULLER DAVIS, Cl.,	Allur, India.
FREEMAN ESSEX, Ph.,	Troy.
EUGENE COPPEMAN FISKY, Sc.,	Granville.
WILSON WASHINGTON GALLOWAY, Ph.,	Xenia.
ROBERT DUMORE GROSS, Sc.,	Granville.
JUSTIN EDWARDSON HARTIG, Sc.,	Tecumseh, Mich.
JOSEPH FREDERICK HARRISK, Sc.,	Granville.
CLAUDE RUSSELL HASTINGS, Sc.,	Akron.
CHARLES WOOD HENDERSON, Ph.,	Granville.
GRANTON PARKER HILL, Ph.,	Bellefontaine.
HAMILTON FRANCIS HORTON, Sc.,	Granville.
ROSS HOWELL, Sc.,	Bladensburg.
CURWIN MATTHEWS, Sc.,	Jackson.
FRANK MCCARTY MATTHEWS, Sc.,	Philo.
ROBERT BERTIS MILLAN, Sc.,	Salamanca, N. Y.
DWIGHT MUNSON MOORE, Sc.,	Zanesville.
LAWRENCE NEWTON MOORE, Sc.,	Zanesville.
JAMES BOY MORRISON, Ph.,	Whiting, Ind.
RALPH HARRIS MORROW, Sc.,	Granville.
ARA C. MYERS, Ph.,	Marysville.
ROBERT WILLIAM PERCE, Cl.,	Cincinnati.
KENNETH AUGUSTUS PYEPPER, Sc.,	St. Paul, Minn.
THOMAS WARREN PHILLIPS, Sc.,	Granville.
ARTHUR CLAYTON PROCTY, Sc.,	Granville.
GARNETT MARTIN IDEY, Cl.,	Bridgeport, W. Va.
CLIFTON FRANK SCHROFF, Sc.,	Sandusky.

HARRY JULIUS SCHULMAN, Ph.,	Norwich, Conn.
ROLLIN WOODRUFF SCHWEGMAN, Sc.,	Pomeroy.
CAREY JUDSON SCOTT, Ph.,	Granville.
JOHN PAUL SELLERS, Sc.,	Wellston.
LAWRENCE EVERETT SMITH, Ph.,	Granville.
JOHN ANDREW THIELE, Ph.,	Dayton.
PAUL SPURGEON TRACY, Ph.,	Hubbard.
ROGER EUGENE TUTTLE, Sc.,	Springfield.
ERNEST GILBERT VILLERS, Sc.,	Marietta.
CARMI LEWIS WARNER, Sc.,	Granville.
ROBERT REDDING WEBER, Sc.,	Toledo.
ARDON KIRK WHEELER, Sc.,	Zanesville.
EARLE THEODORE WOLFE, Sc.,	Dayton.
JAMES LAWRENCE WRIGHT, Sc.,	Granville.

**Sophomore Class.**

HOMER BURTON ADKINS, Sc.,	Newport.
BYRON BALDWIN ASHBROOK, Sc.,	Pataaskala.
BOYCE EMERSON BRADFORD, Sc.,	Otsego.
ROY CHETWYNDE BROWN, Sc.,	Toledo.
STROTHER ANDERSON CAMPBELL, Ph.,	Berea, W. Va.
LAMBERTSON HAROLD CHAILLE, Ph.,	Detroit, Mich.
F. LEE CHERRY, Sc.,	Zanesville.
PAUL FOSTER CLARK, Sc.,	Dayton.
ROBERT MCGILBRE COLLETT, JR., Ph.,	Wilmington.
LEONARD BURFORD COX, Sc.,	Cairo, Ill.
ALBY SWEET FLEMING, Sc.,	Mt. Vernon.
CLARENCE LUTHER FOX, Ph.,	Dayton.
ADIN A. GRUBB, Sc.,	Johnstown.
NEIL ESBURN HANSEN, Ph.,	Mansfield.
ARTHUR MELVIN HARSHBARGER, Ph.,	Granville.
NORMAN FREEMAN HASCALL, Sc.,	Toledo.
HENRY DEMING HOPKINS, Sc.,	Granville.
LEONARD GEORGE HOWELL, Sc.,	Ironton.
RAY EDMUND HOWELL, Sc.,	Bladensburg.
JOSEPH REASON HOY, Ph.,	Newell, W. Va.
JOHN PAUL DECKER JONES, Sc.,	Maumee.
RALPH JONES, Sc.,	Parkersburg, W. Va.
ORLAND BETHEL KIRK, Sc.,	Piedmont.
JACOB HENRY KNAFF, JR., Sc.,	Parkersburg, W. Va.
RAYMOND EMILY LADD, Ph.,	Bowling Green.
JOHN BUDD LONG, JR., Ph.,	Council Bluffs, Iowa.
JUDSON ULERY MCGUIRE, Ph.,	Granville.
WALLACE WILLIAM MASTELLER, Ph.,	Mt. Vernon.
EDWARD PULLMAN MILLS, Ph.,	Ashtabula.

CHARLES OSWALD MITCHELL, Sc.,	Toledo.
CAREY PITT MOORE, Sc.,	Newton Center, Mass.
BRYANT CHARLES MORRIS, Ph.,	Troy.
ROBERT STEPHEN MORRIS, Ph.,	Nottingham.
ASSBURY LEONCE ODESRECHT, Ph.,	Columbus.
WAYNE CONVERSE OVERTUREY, Ph.,	Newark.
CHARLES WILSON PRINE, Sc.,	Hillsboro.
LESTER MORSE RANKIN, Ph.,	Dayton.
RANDOLPH RECTOR, Ph.,	Pawtucket, R. I.
DAVID EDWARD REESE, Ph.,	Cleveland.
GEORGE MILTON ROUDEBUSH, Ph.,	Newtonville.
ERI JAY SHUMAKER, Cl.,	Lorain.
CHARLES TRUESDALE STEVENS, Ph.,	Newark.
CLIFFORD ELMER THOMSON, Sc.,	Troy.
HERVEY ALDRICH TRIBOLET, Ph.,	Myingyan, Burma.
JUDSON BLAKE WALKER, Ph.,	Toledo.
JOHN ST. CLAIR WARD, Sc.,	Duncan's Falls.
EARLE WATKINS, Sc.,	Granville.
WILLIAM BAYARD WHITE, Sc.,	Springfield.
ARTHUR CONSAUL WICKENDEN, Cl.,	Toledo.
CLYDE CURTIS WILSON, Sc.,	Carlisle, Ind.
HAROLD ARTHUR WINGRAVE, Ph.,	Detroit, Mich.
PAUL VERN WOOLEY, Sc.,	Galveston, Ind.
ROBERT WILLIAM WORST, Ph.,	Dayton.
WILLIAM EARLEN YATES, Cl.,	Wolf Summit, W. Va.

## Freshman Class.

ROBERT NICHOLS ADAIR, Ph.,	Xenia.
CLYDE STEWART ADAMS, Sc.,	Newark.
JUSTUS REYNOLDS ALDERMAN, Sc.,	McConnellsville.
ROBERT MCGAFFIN ARMSTRONG, Sc.,	West Waterloo, Iowa.
JOHN SAMUEL BARRINGTON, Sc.,	Granville.
HORACE ROBERT HIGGS, Ph.,	Granville.
LYMAN CROWELL BOYNTON, Ph.,	Ashtabula.
RAYMOND EMMANUEL BROHOLM, Cl.,	Albert Lea, Minn.
VERGIL NEAL BROWN, Sc.,	Joliet, Ill.
HOWARD GEORGE BUCKLEY, Sc.,	Marietta.
GORDON JACOB BURRER, Sc.,	Sunbury.
HARRY BEAHAN CARNEY, Sc.,	Granville.
FREDERIC LATIMER CHASE, Sc.,	Newark.
QUINCY ADAMS CHEADLE, Cl.,	Newark.
ROLLA WALDO COCHRAN, Ph.,	Trinway.
DONALD SINCLAIR CRAWFORD, Sc.,	Rochester, N. Y.
HENRY DONALD DAWSON, Sc.,	Haskins.



ROY BURTON DEER, Ph.,	Harbor Beach, Mich.
JOHN THURSTON EDGERLY, Sc.,	Ottumwa, Iowa.
CYRIL JACK EDWARDS, Ph.,	Cleveland.
JAMES WILLIAM GAINFORT, Ph.,	Wexford, Ireland.
HORACE LONGIA GRILEY, Sc.,	Cincinnati.
CALVIN FINLEY HAMILTON, Cl.,	McKeesport, Pa.
CHAUNCEY GAIL HAMILTON, Ph.,	Bellefontaine.
WILBERT JOHN HARNISH, Sc.,	Dayton.
WILLIAM EDWARD HAYDEN, Ph.,	Richwood.
RALPH LESTER HAZLETT, Ph.,	Sterling, Colo.
EARL ALBON HEWITT, Ph.,	Kenyon, Minn.
THOMAS LLOYD HICKMAN, Cl.,	St. Paul, Minn.
WILLIAM HARRISON HOBART, Sc.,	Troy.
ARTHUR LOWELL JOHNSON, Cl.,	Granville.
HAROLD L. KIER, Ph.,	Granville.
DONALD MCKINLEY LADD, Sc.,	Bowling Green.
STUART LEFEVRE LAPP, Sc.,	Norwood.
ALBERT HARROLDE LARUE, Ph.,	East Liverpool.
LEE HARRISON LYMAN, Sc.,	Elyria.
EARL ROSENDALE MARSH, Sc.,	Bowling Green.
CARL HARVEY MASTELLER, Sc.,	Mt. Vernon.
ELIOT WINTHROP MORRELL, Sc.,	Dayton.
ERNEST HENRY MORRIS, Sc.,	Springfield.
HOWARD CARTWRIGHT NELLES, Sc.,	Toledo.
HAROLD WILBUR NIXON, Sc.,	Marietta.
JOHN JAMES OVER, Sc.,	Irwin, Pa.
EDGAR WESLEY OWEN, Sc.,	Beverly.
EARL JAMES PERKINS, Sc.,	Denver, Colo.
ISAAC HARRIS PETERMAN, Ph.,	Plain City.
WILLIAM LORING PHILLIPS, Sc.,	Elgin, Ill.
LYMAN COLE PINKERTON, Ph.,	North Bend, Oregon.
CHARLES ALPHEUS POWELL, Sc.,	Chillicothe.
DELBERT RANDALL PRATT, Sc.,	Granville.
ALLEN THOMAS PRICE, Ph.,	Morgan Park, Ill.
HURLEY DeVERA RALSTON, Sc.,	Coshocton.
ROBERT JOHNSON REESE, Sc.,	Struthers.
THOMAS HUGH REES, Sc.,	Girard.
LELAND DURWOOD SCHOCK, Sc.,	Norwalk.
RAYMOND CHESTER SMART, Ph.,	Sidney.
JOHN NEIL SPENCER, Sc.,	New Straitsville.
GLOYD STANKARD, Sc.,	Toledo.
HENRY SANFORD STOUT, Sc.,	Dayton.
IRVIN LEVI SWANSON, Sc.,	Golaghat, Assam, India.
MARK SWISHER, Sc.,	Urbana.

JOHN STUART TATTERSHALL, Sc.,	Dayton.
EDWARD MILAN TAYLOR, Ph.,	Marion.
CARL LOUIS THIELE, JR., Sc.,	Dayton.
FOSTER TYLER, Sc.,	Alexandria.
KENNETH LYON ULLMAN, Ph.,	Granville.
DONALD ELLIS VANWINKLE, Sc.,	Cheyenne, Wyo.
ROBERT PAXON VICKERS, Sc.,	Salem.
DANA DAVID WALKER, Sc.,	Newark.
SEWELL GUY WAITE, Sc.,	Newport, Ky.
JOHN ALLING WARD, Ph.,	Newark.
RUSSELL ELDRIDGE WEST, Sc.,	Rochester, N. Y.
RUSSELL HILL WILLIAMS, Sc.,	Kalamazoo, Mich.
CHARLES SOMERVILLE WILLIS, Ph.,	Washington C. H.
HARRY MOZIER WOOD, Sc.,	Mt. Gilead.
WILFRED COLE WOODYARD, Ph.,	Guadalajara, Mexico.
STANLEY ALLEN WRIGHT, Sc.,	Granville.
WAYNE ADDISON YOAKAM, Sc.,	Homer.

## Special Students.

LOYD LARUE ANDERSON,	Kane, Pa.
GERALD BROWNE ATHEY,	Dayton.
WILLIAM STORRS BALDWIN,	Chicago, Ill.
CLARENCE LLEWELLYN BEACHLER,	Dayton.
JOHN LEANDER BUELEK,	Wellsville.
RALPH GERALD CARSON,	McLeansboro, Ill.
PAUL WICKES CURTIS,	North Fairfield.
EVAN HOWARD DAVIES,	Granville.
CLIFFORD HENRY DILG,	Dayton.
GRAHAM HOLLAND SPRINGSTON HAMRICK,	Spencer, W. Va.
ASA RHOLSTON HILL,	Ohswéken, Ont.
TOWER WADSWORTH KING,	Marion.
IRVIN PAUL BETTIG,	Carlisle.
LEWIS DUDLEY SCOTT,	Osaka, Japan.
LOYD SHARP,	Wauseon.
ELMER SAMUEL STENGEL,	Buffalo, N. Y.
FRANK HENRY VENN,	Malden, Mass.
LESLIE HAINES WINANS,	Toulon, Ill.
ERNEST FORSYTHE WOODWARD,	Washington C. H.

## Students in Shepardson College Classes

### Senior Class.

RUTH ALICE ADLER, Ph.,	Canton.
SARAH FULLER ANDERSON, Cl.,	Newton Center, Mass.
BESSIE LEONORE BENNETT, Ph.,	Momence, Ill.
EMILY KEER COLWELL, Cl.,	Granville.
STELLA BERTHA COX, Ph.,	Mt. Vernon.
KATHERINE CURTIS CRITCHFIELD, Ph.,	Mt. Vernon.
HARRIET DAVIS, Ph.,	Massillon.
LOIS ETHEL DEBERRY, Ph.,	Terra Alta, W. Va.
ORGA DICKERSON, Ph.,	Radnor.
MAUD EDNA FERGUS, Ph.,	Tippecanoe City.
JENNIE CHRISTINE HARTLEY, Sc.,	Paris, Ill.
RUTH FREEMAN HASTINGS, Ph.,	Akron.
EDNA MARGUERITE HAYES, Ph.,	Mt. Vernon.
ELIZABETH ADAMS JONES, Ph.,	Granville.
JESSIE MARGARET LAING, Ph.,	Bedford.
HAZEL GERTRUDE LONG, Ph.,	Council Bluffs, Iowa.
MARY MARGARET McCLURE, Ph.,	Newark.
FLORENCE GRACE McINTYRE, Ph.,	Toledo.
MARGUERITE MAY McNUTT, Ph.,	Bristol.
HAZLE LILLIAN MARTIN, Ph.,	Hebron.
JULIA MARTHA MOREY, Ph.,	Fairport, N. Y.
MARY HENRIETTA MONRO, Ph.,	Kalamazoo, Mich.
BESSIE EDITH NICOLLS, Sc.,	Beaver Dam, Wis.
EVA ARMINTA NIXON, Ph.,	Granville.
ELSIE CONSTANCE NORTH, Ph.,	Beaver Dam, Wis.
ANN ELIZABETH OWEN, Ph.,	Newark.
LAURA NEWELL PROUTY, Sc.,	Granville.
EMMA LUELLE ROSE, Ph.,	Collins.
JULIA VINTON SEAGRAVE, Cl.,	Granville.
EDITH MAY SOUTHWALL, Ph.,	Dayton, Ky.
MARGARET ELMA STEERE, Ph.,	Ionia, Mich.
HELEN MITCHENER STREATOR, Ph.,	Washington, Pa.
VEDA VANDEVOERT, Cl.,	Mayfield, Mich.
EDITH CHRISTINE WYKKEL, Ph.,	Kalamazoo, Mich.

## Junior Class.

RUTH WOODIN ABELL, Sc.,	Toledo.
HAZEL MAE BAILEY, Ph.,	Highland Park, Ill.
MILDRED GAYNELLE BAILEY, Ph.,	Mansfield.
EDITH JESSIE BROWN, Ph.,	Newark.
ALICE MAY BULLETT, Ph.,	Buffalo, N. Y.
VIVIAN CRITCHFIELD, Ph.,	Wheaton, Ill.
GRACE ELLEN DOUT, Ph.,	Mt. Vernon.
ETHEL LOTTIE DYE, Ph.,	Akron.
DOROTHY FINCH, Ph.,	Chicago, Ill.
RHODA IVA GALBRAITH, Sc.,	Toledo.
MARGARET CAROLINE GOOCH, Sc.,	Watertown, Mass.
C. LUELLA GRAHAM, Ph.,	Paris, Ill.
FERN MARIE GRIFFETH, Ph.,	Granville.
LILLIAN LEONTINE GROLTON, Ph.,	St. Louis, Mo.
HARRIET ELIZABETH HAGGARD, Ph.,	Watertown, Mass.
BESSIE ANNA MATILDA HAGMEIER, Sc.,	Newark.
FLORENCE HANNAHS, Ph.,	Johnstown.
VERA HOCKETT, Ph.,	Chillicothe.
HARRIET OLNEY HUNT, Ph.,	Granville.
GLADYS KEMPER, Ph.,	Granville.
MARJORIE LEA MCCUTCHEON, Ph.,	Franklin, Va.
MARION CHARLOTTE MILLER, Ph.,	Salamanca, N. Y.
LENA ROSE NETH, Ph.,	Middleton, Idaho.
LILLIS PRICE, Ph.,	Morgan Park, Ill.
RUTH ESTHER ROCKWOOD, Ph.,	Granville.
RACHEL HOLBROOK SEAGRAVE, Cl.,	Granville.
CLARA EMILY SHELDON, Ph.,	Granville.
IRENE GERTRUDE SHENBERGER, Ph.,	Circleville.
MARY GRACE SHENBERGER, Ph.,	Circleville.
KATHLEEN BLAINE SIMMS, Ph.,	Dayton.
DOROTHY RUTH SWARTE, Ph.,	Granville.
RUTH LEVILE THOMAS, Ph.,	Chicago, Ill.
HELEN DOROTHY WOLCOTT, Ph.,	Conover.
LORA SMYTHE WRIGHT, Ph.,	Granville.

## Sophomore Class.

MARGARET MINERVA ALLEN, Sc.,	Chicago, Ill.
HARRIET AMELIA BARRINGTON, Ph.,	Granville.
RUTH ANNE BARRINGTON, Ph.,	Granville.
EDITH MARIE BEARD, Ph.,	Wilkinsburg, Pa.
VIRGINIA BLACKFORD, Ph.,	South India.
LILIAN BISHOP BOGGS, Sc.,	Cincinnati.
HAZEL EDNA BOLIN, Ph.,	Minneapolis, Minn.

- MARGARET BOYER, Ph.,  
 GRACE MILLICENT CHAMBEELIN, Ph.,  
 HELEN MARGARET ENGLAND, Ph.,  
 BERTHA ELIZABETH FRANK, Ph.,  
 HELEN GILMORE, Cl.,  
 OLIVE MARGARET GRAYBURN, Ph.,  
 IMCOGEN ADAMS HAMBLEN, Ph.,  
 WINIFRED LOUISE HAMILTON, Ph.,  
 CARRIE HOOVER HAWLEY, Ph.,  
 VERDA FAY HENRY, Ph.,  
 VIOLA CAROLINE HILL, Ph.,  
 JOSEPHINE EULALIA HILLIARD, Ph.,  
 ALICE BLANCHE HUTCHISON, Ph.,  
 PHEBE ALICE JOHNSON, Cl.,  
 MABEL MEAD JONES, Ph.,  
 ESTHER BLANCHE LEMON, Ph.,  
 ETHEL MARIE LYON, Ph.,  
 JOICY FAY MCKINNEY, Ph.,  
 ELIZABETH DAVIS MATTHEWS, Ph.,  
 MILDRED MOORE, Ph.,  
 ETHEL MORROW, Ph.,  
 BEULAH ALLEN MOYER, Ph.,  
 VIVIAN BERTHA PERRY, Ph.,  
 VIRGINIA MARTHA PUTNAM, Sc.,  
 ANNA MARGARET RAMEY, Cl.,  
 MARJORIE RETTIG, Ph.,  
 ABIGAIL EMMA ROWLEY, Sc.,  
 ETHEL FRANCES RUSSELL, Ph.,  
 EDNA MARY SCHROFF, Ph.,  
 RUTH ELIZABETH SHAFFER, Cl.,  
 ETHEL JULIA SHARER, Ph.,  
 VERA MAY SMITHER, Ph.,  
 SARAH WOOD STASEL, Ph.,  
 RUTH STEWART, Ph.,  
 HARRIET LAURA STODDARD, Ph.,  
 LUCILE SUMMERS, Ph.,  
 MARY SUVOONG, Sc.,  
 SUSAN JULIETTE THRESHER, Ph.,  
 MARGARET ETHEL TIPTON, Ph.,  
 SARAH RUHAMA TRITT, Ph.,  
 IRENE SUSAN TULLOSS, Cl.,  
 ETHEL MORSE VORHEES, Ph.,  
 MARGARET WASSON, Ph.,  
 EVA LUCILLE WRIGHT, Ph.,  
 Library, Pa.  
 Granville.  
 Zanesville.  
 Granville.  
 Granville.  
 Wilkinsburg, Pa.  
 Granville.  
 Kankakee, Ill.  
 Pataskala.  
 Walls Ferry, Ark.  
 Santa Anna, Calif.  
 Newark.  
 Granville.  
 Mead, Neb.  
 Granville.  
 Cleveland.  
 Charleston, W. Va.  
 Ben's Run, W. Va.  
 Jackson.  
 Zanesville.  
 St. Louis, Mo.  
 Paris, Ill.  
 Chillicothe.  
 Orange, Calif.  
 Newark.  
 Troy.  
 Chester, W. Va.  
 Chicago, Ill.  
 Sandusky.  
 Brookville, Pa.  
 Hebron.  
 Burlington, Iowa.  
 Newark.  
 Newark.  
 Newburg, N. Y.  
 Parkersburg, W. Va.  
 Shanghai, China.  
 Kansas City, Mo.  
 Ironton.  
 Urbana.  
 Newark.  
 Nelsonville.  
 Marshalltown, Iowa.  
 Granville.

## Freshman Class.

RUTH EDWINA ADAIR, Ph.,	Adrian, Mich.
HELEN PRICE BAKER, Ph.,	Cleveland.
NELLIE BALLOU, Cl.,	Newark.
EUNICE ESTELLA BARNES, Cl.,	Monroeville.
ESTHER LAUREL BARNES, Ph.,	Remington, Ind.
ELIZABETH LOUISE BARTLETT, Ph.,	Mt. Vernon.
MABEL FRIEND BAUMAN, Ph.,	Pleasantville.
WINIFRED PHYLLIS BRADSHAW, Ph.,	Chillicothe.
LILLIAN ALYRETTA BROWN, Cl.,	Monroeville.
ALMA LOUISE BRUMBACK, Sc.,	Granville.
FAITH BRYANT, Sc.,	Toledo.
KATHERINE MARIE CARMODY, Ph.,	Van Wert.
CONSTANCE DAY CHENEY, Ph.,	Morgan Park, Ill.
MARIE ALICE COLE, Ph.,	Pittsburgh, Pa.
ANABEL SHILLING CONRAD, Ph.,	Newark.
LAURA MABEL COOK, Ph.,	Granville.
BERNICE ERNESTINE DAVENPORT, Sc.,	Mandalay, Burma.
EDITH IONE DEMING, Cl.,	Newark.
MARGARET DEWEY, Ph.,	East Cleveland.
ALICE ELIZABETH DIETER, Ph.,	Dayton.
BLANCHE ELLA DULL, Ph.,	Bird's Run.
ELIZABETH SOPHIA EDMONSON, Ph.,	Little Rock, Ark.
MARY ESTELLA EDWARDS, Ph.,	Bowling Green.
ALICE BELL EISWALD, Ph.,	Mansfield.
BEAH GRACE EVANS, Ph.,	Granville.
MARY RUTH FERGUS, Ph.,	Tippecanoe City.
SUNIE CAREY FERGUSON, Cl.,	Vepery, Madras, India.
FLORENCE DOVE FOSTER, Ph.,	Ottumwa, Iowa.
MARTHA FULTON, Ph.,	Newark.
EDITH CLAUDE GEACH, Ph.,	Granville.
MARY ABBAIN GEIGER, Sc.,	Hebron.
EMMA LENA GEIS, Cl.,	Myitkyina, Burma.
BESSIE MAY GREGG, Ph.,	Granville.
LAURA CORNELIA HARRIS, Ph.,	Manlius, N. Y.
IRMA HAUSER, Sc.,	Chicago, Ill.
MABEL HERRICK, Ph.,	Granville.
LILLIAN ISABEL HULBERT, Ph.,	Wauwatosa, Wis.
HELEN IRENE HUMPHREY, Ph.,	Butler, Pa.
ADA BURKETT JOHNSON, Cl.,	Meade, Neb.
LAURA ELIZABETH JOHNSON, Cl.,	Meade, Neb.
VIOLA MAY JOHNSON, Ph.,	Cincinnati.
DOROTHEA JESSIE LAPP, Ph.,	Norwood.
CLARA DAVIS LOOMIS, Ph.,	Cleveland.

DOROTHY EMMA McCANN, Sc.,	Dayton.
ETHEL GENDELL McDANEL, Ph.,	Covington, Ky.
RUTH ROGERS MCKINLEY, Ph.,	Lansing, Mich.
ANN MARIAH MARTIN, Ph.,	Grand Junction, Colo.
ESTHER LEE MARTIN, Sc.,	Seattle, Wash.
MABEL MARGARET METZ, Ph.,	Newark.
ETHEL NEFF MORRIS, Ph.,	Springfield.
HELEN OLNEY, Ph.,	Brooklyn, N. Y.
KATHERINE OLNEY, Ph.,	Brooklyn, N. Y.
FLORENCE HELEN REES, Sc.,	Pemberville.
LILLIAN SCRUBY, Ph.,	Chillicothe, Mo.
VEDA LUCILLE SEDGWICK, Ph.,	Martin's Ferry.
MAE RUTH SMITH, Ph.,	Wausau, Wis.
ESTHER VICTORIA SMYTH, Ph.,	Galion.
EMILIE SPENCER, Ph.,	Granville.
LOUISE MAY SPIVEY, Cl.,	Dayton.
PETRANA STAMENOVA, Ph.,	Bulgaria.
MERRIE SOPHIA STEERE, Ph.,	Ionis, Mich.
MINNIE WIEST STOCKUM, Ph.,	Trotwood.
ALICE BREEN TIFFT, Ph.,	Wauwatosa, Wis.
EUNICE VAIL, Ph.,	Atoka, Okla.
DOROTHY VANWINKLE, Sc.,	Cheyenne, Wyo.
EDNA BROWNING WALCUTT, Ph.,	Columbus.
SARAH ELIZABETH WALKER, Cl.,	Newark.
ETHEL EGBERT WEST, Ph.,	Rochester, N. Y.

## Special Students.

GRACE ADELE BOND,	Granville.
IVA CANFIELD,	Columbus.
VIRGINIA BROWN CRAWFORD,	Mitchell, Ind.
LAUREL DEANE DEVOL,	Granville.
BERTHA MAE EBERLE,	Quaker City.
ESTHER MARY HAMPSON,	Pleasantville.
ANNA HUTCHISON,	Granville.
MARGUERITE ANNA KINEIG,	Dayton.
MAMIE EDNA LLOYD,	Granville.
GLADYS FLORENCE MACDOWELL,	Chillicothe.
MARIE ALICE MCGUIRE,	Granville.
RUTH ADELINE MARTIN,	Ongole, India.
HAZEL SMITH MEAD,	Beloit, Kansas.
LELIA BLANCHE MEARS,	Hanover.
LEONTINE MOORE,	Newark.

SARA VANHORNE MOOREHEAD,

ALTA BELLE O'DANIEL,

ALTA ELIZA PALMER,

ETHEL MAY POPE,

ELLA MARIE REYNOLDS,

Zanesville.

Granville.

Pataskala.

Kenton.

Middletown.



## Students in Doane Academy

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### Graduating Class 1912.

JOHN SAMUEL BARRINGTON, Sc.  
HARRY BEAHAN CARNEY, Sc.  
EWART GLADSTONE CARNEY, Sc.  
WILLARD JASON CHAMBERLAIN, Ph.  
F. E. CHERRY, Ph.  
EARL CHESSUR, Sc.  
GEORGE WINFIELD DAY, Ph.  
ROY BURTON DEER, Cl.  
CARL ALSTEIN FOSS, Sc.  
JAMES WILLIAM GAINFORT, Cl.  
NIEL ESBURN HANSEN, Cl.  
ARTHUR MELVIN HARSHBARGER, Ph.  
RAY HOWELL, Ph.  
ARTHUR LOWELL JOHNSON, Cl.  
WILLIAM CLIFTON JORDAN, Ph.  
HAROLD KIER, Sc.  
ORLAND BETHEL KIRK, Sc.  
ROY LETHERMAN McCANN, Sc.  
ELIOT WINTHROP MORRILL, Sc.  
ASA C. MYERS, Cl.  
HOWARD CARTWRIGHT NELLIS, Sc.  
CHARLES ALPHEUS POWELL, Sc.  
DELBERT RANDOLPH PRATT, Sc.  
DAVID EDWARD REESE, Sc.  
PAUL PRIOR RUGG, Cl.  
FRED PAUL SHELDON, Ph.  
KENNETH LYON ULLMAN, Sc.  
FERN ASHBROOK, Sc.  
VIRGINIA BLACKFORD, Sc.  
ALMA BRUMBACK, Sc.  
RUTH ELIZABETH DEARDORFF, Ph.  
BLANCHE DULL, Ph.  
OLIVE MARGARET GRAYBURN, Cl.  
MABEL HERRICK, Ph.  
JOICY FAY MCKINNEY, Ph.

## Senior Class.

LOYD LARUE ANDERSON,	Kane, Pa.
JOHN E. ARBLASTER,	Kittanning, Pa.
BYRON EUGENE ASHBROOK,	Granville.
GERALD BROWN ATHEY,	Dayton.
CHARLES RAY BELL,	Hardinsburg, Ind.
JOHN LEANDER BJEKKE,	Wellsville.
RALPH GERALD CARSON,	New Berlin, Ill.
PAUL WILKES CURTIS,	Fairfield.
CLYDE ROBERT DUNLAP,	Harbor Beach, Mich.
ROGER DERUYTER FERRIS,	Toledo.
ASA RHOLSTON HILL,	Oshwekan, Canada.
JOSEPH REASON HOY,	Newell, W. Va.
WILLIAM CAREY KEMPER,	Granville.
TOWER WORDSWORTH KING,	Marion.
WILLIAM ZANES LYNN,	Newark.
HUGH BYRUM NICHOLSON,	St. Mary's.
NELSON GADD RUFF,	Braintree, Mass.
LEWIS DUDLEY SCOTT,	Granville.
EDWIN OTTO TANNEHILL,	Granville.
ERENEZER SANDS THRESHER,	Kansas City, Mo.
WALTER WILLIAM VANKIRK,	Canton.
FRANK HENRY VENN,	Malden, Mass.
CHARLES WILLIAM WELLWOOD,	Ning Wan Fu, China.
LESLIE HAINES WINANS,	Toulon, Ill.
RHODA LOUISE BOGGS,	Jorhat, India.
LOIS C. DAVIS,	Granville.
SYLVIA EASTMAN,	Fredericktown.
DORIS R. FREDERICKSON,	Congo Free State.
ELAH HARRIS,	Granville.
ELVA LINTON,	Columbus.
HELEN LOCKHART,	Granville.
MARY ALICE MCGUIRE,	Granville.
RUTH ADELAIDE MARTIN,	Ongole, India.
GRACE RUSSELL SEAGRAVE,	Rangoon, Burma.
MARGARET STEELE,	Chillicothe.
LUCILE CLARE TILBE,	Rangoon, Burma.
MARIE F. TILBE,	Rangoon, Burma.

## Junior Year.

RICHARD RICHARDS BARRINGTON,	Granville.
PHILIP LUKE BUEKEL,	Shimotera, Japan.
ROY ELDO BROWN,	Saskatchewan, Canada.
HERVEY DOYLE CHANDLER,	Cadiz.

HAROLD LINGLE CLARK,	Congo Free State.
RUSSELL ASHMORE CURRAN,	Marion.
CLIFFORD HENRY DILG,	Dayton.
GEORGE WATKIN EDMUNDS,	Martin's Ferry.
ROBERT CLINTON GILMORE,	Granville.
CHARLES LAURENCE GOODELL,	Granville.
RUSSELL MORSE GRIFFETH,	Granville.
JAMES ERNSHAW GRUBE,	Xenia.
EMMETT FITZPATRICK HARTSOCK,	Yardley, Pa.
CHARLES HERRERT HASKINS,	Granville.
ALFRED JANNEY JOHNSON,	Granville.
MILLARD LEROY JORDAN,	Pleasant City.
CORNELIUS FREDERICK McNEIL,	Toledo.
JAMES MACPHERSON,	Dayton.
JOHN McCOWEN MARTIN,	Rochester, N. Y.
BOSIN GABIL MOMIN,	Tura, Assam.
ROBERT PAUL NIXON,	Granville.
JOHN CHRISTIANO ROSA,	Boston, Mass.
GORDON STIFLER SEAGEAVE,	Rangoon, Burma.
DAVID HAROLD SPEICHER,	Kit Yang, China.
JAMES ORVILLE WILTSHIRE,	Vigo.
BERTHA MAUD BOOGS,	Sattenapalle, India.
DOROTHY BRISON,	Millersport.
MARGARET MARIE HEINRICHs,	Ramapatán, India.

## Second Year.

ERNEST BODENWEBER,	Cleveland.
LEON MANVILLE BUTLER,	Toledo.
FRIEND MORRIS COCHRAN,	Salama, W. Va.
HAROLD DISCHO DEYO,	Urbana.
WAYVIS WILLIAM FERRIS,	Toledo.
HERBERT EUGENE HILL,	Osaka, Japan.
JOHN WALKER HUNDLEY,	Granville.
FRANK EARL KESLER,	Farmington, Ill.
HENRY RICHARDS LESLIE,	Granville.
WILLIAM HARRISON PRICE,	Youngstown.
HERMAN GEAR SPENCER,	Granville.
ANDREW SPIRIAK,	Youngstown.
PARKER TILBE,	Rangoon, Burma.
JAMES OSCAR WHITE,	Sabina.
LYDIA BUCKLAND,	Granville.
MARY FLORENCE CARNEY,	Granville.
FRANCES ISABEL CARNEY,	Granville.
MARGARET COLWELL,	Granville.

FLORENCE ETTA OEDERBACH,  
HELEN DRURY RAY,  
ETHEL LILLA YOUNG,

Columbus.  
Granville.  
Kentung, China.

**First Year.**

MILAN FORREST ASHBROOK,  
ARTHUR TALBOT BAWDEN,  
CARL H. BUEFELD,  
MICHAEL CHEVAN,  
ROBERT DEWOLF COGHILL,  
STUART COLLETT,  
LISTON DRUIT GOFF,  
ROBERT TAYLOR GOODELL,  
LUTHER HERMAN HORLACHER,  
JOSHUA RUSSELL KECKLEY,  
SPURGEON GLEN KEMPER,  
WALTER HIGGINS KULL,  
THOMAS FRANCIS McMAHON,  
DONALD CHASE MURRAY,  
HAROLD COOKE PHILLIPS,  
PHILIP BENJAMIN REISTER,  
CHARLES FREDERIC ROLLER,  
STANLEY BURTON SIMPSON,  
JOHN SOCACH,  
CHARLIE SEYONG,  
CLIFFORD WARD SWANSON,  
ADAM WEIR,  
GEORGE STEWART WOLFF,  
ARTHUR CLARENCE WYSE,  
ALICE ELIZABETH CHANTLER,  
FRANCES ELMA HASKINS,  
FRANCES JONES,  
DOROTHY CATHERINE LESLIE,  
DOROTHY GRACE MARTIN,  
MARGARET ELIZABETH SPEICHER,  
HARRIET AUSTIN TIGHT,

Granville.  
Granville.  
Granville.  
Szemelk, Hungary.  
Granville.  
London, England.  
Martin's Ferry.  
Granville.  
Dayton.  
Newark.  
Granville.  
Beloit, Wis.  
Farmington.  
Granville.  
Jamaica, W. I.  
Hamilton.  
Warren, Pa.  
Chicago, Ill.  
Kurtie, Hungary.  
Shanghai, China.  
Golagat, India.  
Clinton, Ind.  
Valcartier, Canada.  
Fayette.  
Tarentum, Pa.  
Granville.  
Chicago, Ill.  
Granville.  
Ongole, India.  
Kit Yang, China.  
Granville.

**Electives.**

CLARENCE LLEWELLYN BEACHLER,  
QUINCY ADAMS CHEADLE,  
ALBERT HENRY CROISSANT,  
HORACE LONGIN GRILEY,  
CALVIN FINLEY HAMILTON,  
WILLIAM EDWARD HAYDEN,

Dayton.  
Newark.  
St. Louis, Mo.  
Cincinnati.  
McKeesport, Pa.  
Richwood.

- EARL ALBON HEWITT,  
THOMAS LLOYD HICKMAN,  
WILLIAM JACOB HOUSTON,  
ROSS HOWELL,  
REGINALD HEBER LATTA,  
ISAAC HARRIS PETERMAN,  
LYMAN COLE PINKERTON,  
DAVID EDWARD REESE,  
LELAND DURWARD SCHOCK,  
LLOYD HAYDEN SHARPE,  
CHARLES VINCENT SLANE,  
RAYMOND CHESTER SMART,  
JOHN ANDREW THIELE,  
LINCOLN HOWARD TITUS,  
FOSTER TYLER,  
JAMES EDWARD WILLIAMS,  
ROBERT JONES WILLIAMS,  
ROBERT WILLIAM WORST,  
HELEN PRICE BAKER  
NELLIE BALLOU,  
EUNICE ESTELLA BARNES,  
LILLIAN BROWN,  
LELA MAY BUCKLAND,  
IVA CANFIELD,  
MAUDE COCHRAN,  
ETHEL IONE DEMING,  
SUSIE CAREY FERGUSON,  
VIOLA CAROLINE HILL,  
ADA BURKETT JOHNSON,  
LAURA ELIZABETH JOHNSON,  
VIOLA MAY JOHNSON,  
MARGUERITE ANNA KINZIG,  
ANNA MARIE MARTIN,  
RUTH MAY SMITH,  
JOSEPHINE SPAIN,  
LOUISE MAY SPIVEY,  
PETRANA STAMENOVA,  
EUNICE VAIL,  
SARAH ELIZABETH WALKER,  
MARION FAE YOUNG,  
Kenyon, Minn.  
St. Paul, Minn.  
Apollo, Pa.  
Bladensburg.  
Graysville.  
Plain City.  
North Bend, Ore.  
Massillon.  
Norwalk.  
Wauseon.  
Wheatland, Wyo.  
Sidney.  
Dayton.  
Columbus.  
Alexandria.  
Granville.  
Columbus.  
Dayton.  
Cleveland.  
Newark.  
Newark.  
Monroeville.  
Hebron.  
Columbus.  
Salama, W. Va.  
Newark.  
India.  
Santa Anna, Cal.  
Meade, Neb.  
Meade, Neb.  
Cincinnati.  
Dayton.  
Grand Junction, Col.  
Wausau, Wis.  
Columbus.  
Dayton.  
Granville.  
Atoka, Okla.  
Newark.  
Newark.

# Students in the Conservatory of Music

## DIPLOMAS CONFERRED JUNE, 1912.

LELAND ASHER ARNOLD, *Piano*.  
SELMA META LADZINSKI, *Voice*.  
RUTH ESTHER ROCKWOOD, *Piano*.  
MARJORIE FRANCES HOLDEN, *Voice*.

### Graduate Student.

RUTH ESTHER ROCKWOOD, Granville.

### Seniors.

MARION GRAYSON ROSE, *Voice* (Diploma Course) Granville.  
DOROTHY RUTH SWARTZ, *Voice* (Diploma Course) Granville.  
BLANCHE ELLA DULL, *Normal* (Certificate Course) Granville.  
BERTHA MAE EBBELE, *Normal* (Certificate Course) Quaker City.

### Unclassified.

ALBERT MCKAY AKERS,	South Euclid.
JUSTUS REYNOLDS ALDERMAN,	McConnelsville.
ETHEL INEZ BENOIT,	Alexandria.
HESSIE LENORE BENNETT,	Momence, Ill.
RUTH LOUISE BOGGS,	Granville.
MARTHA ELIZABETH BOND,	Granville.
GLADYS IRENE BONSHIRE,	Newark.
DOROTHY BRISON,	Millersport.
LILLY ALVERETTA BROWNS,	Monroeville.
LYDIA BELLE BUCKLAND,	Granville.
IYA CANFIELD,	Columbus.
ALICE ELIZABETH CHANTLER,	Tarentum, Pa.
CONSTANCE DAY CHENEY,	Morgan Park, Ill.
ALLIE MARGARET CHRYSLER,	Granville.
NITA COLLINS,	Johnstown
MARGARET BANCROFT COLWELL,	Granville.
LEONARD BURFORD COX,	Cairo, Ill.
LAURA M. COOK,	Granville.
STELLA BERTHA COX,	Mt. Vernon.
KARL EMMETT CRILLY,	Newark.
KATHERINE CURTIS CRITCHFIELD,	Mt. Vernon.
PAUL WICKES CURTIS,	North Fairfield.
ETHEL LOTTIE DYE,	Akron.

LOIS ETHEL DEBERRY,	Terra Alta, W. Va.
ORGA DICKERSON,	Radnor.
SYLVIA EASTMAN,	Fredericktown.
ELIZABETH S. EDMONSON,	Little Rock, Ark.
MRS. BERTHA T. EULER,	Granville.
MARY RUTH FERGUS,	Tippecanoe City.
ALBY S. FLEMING,	Mt. Vernon.
NELLIE ELLIOTT FLEMING,	Newark.
ROBERT C. GILMORE,	Granville.
BESSIE MAY GREGG,	Granville.
HARRIET ELIZABETH HAGGARD,	Watertown, Mass.
BESSIE A. HAGMKIER,	Marion.
IMOGEN ADAMS HAMBLEN,	Granville.
WINIFRED LOUISE HAMILTON,	Kankakee, Ill.
ESTHER MARY HAMPSON,	Pleasantville.
ELAH DELONE HARRIS,	Granville.
FRANCES ELMA HASKINS,	Granville.
RALPH LESTER HAZLETT,	Sterling, Col.
MARIE MARGARET HEINRICHS,	Granville.
HENRY DEMING HOPKINS,	Granville.
LILLIAN ISABELLE HULBERT,	Wauwatosa, Wis.
ALICE BLANCHE HUTCHISON,	Granville.
ADA BURKETT JOHNSON,	Mead, Neb.
LAURA ELIZABETH JOHNSON,	Mead, Neb.
JOHN PAUL JONES,	Maumee.
MABEL MEAD JONES,	Granville.
GLADYS KEMPER,	Granville.
MARGUERITE ANNA KINZIG,	Dayton.
ESTHER BLANCHE LEMON,	Cleveland.
GLADYS MACDOWELL,	Chillicothe.
ANNE MARIAH MARTIN,	Grand Junction, Colo.
PEARL B. MERCER,	Newark.
MABEL MARGARET METZ,	Newark.
MARION CHARLOTTE MILLER,	Salamanca, N. Y.
ETHEL NEFF MORRIS,	Springfield.
RALPH HARDING MORROW,	Granville.
LENA ROSE NETH,	Middleton, Ida.
VERA NORRIS,	Granville.
HELEN OLNEY,	Brooklyn, N. Y.
KATHERINE OLNEY,	Brooklyn, N. Y.
EUNICE A. PARK,	Pataskala.
VIVIAN BERTHA PERRY,	Chillicothe.
ETHEL MAYE PHILLIPS,	Fredonia.
MARJORIE RETTIG,	Troy.

JOHN MILLARD ROCKWOOD,	Granville.
LILLIAN SCRUBY,	Chillicothe.
GORDON STIFLER SEAGRAVE,	Granville.
VEDA LUCILE SEDGWICK,	Martin's Ferry.
ETHEL JULIA SHAKER,	Hebron.
ESTHER SMYTH,	Marion.
DAVID HAROLD SPEICHER,	Granville.
EMILIE SPENCER,	Granville.
ELEANOR L. STASEL,	Newark.
MERRIE S. STEERE,	Ionia, Mich.
MINNIE WIEST STOCKUM,	Trotwood.
HARRIET L. STODDARD,	Newburgh, N. Y.
LUCILE SUMMERS,	Parkersburg, W. Va.
ALICE B. TIFFT,	Wauwatosa, Wis.
KENNETH LYON ULLMAN,	Granville.
EDNA BROWNING WALCUTT,	Columbus.
JUDSON BLAKE WALKER,	Toledo.
MYRTLE BELLE WALKER,	Kirkersville.
ESTHER VIOLA WARNER,	Granville.
JESSIE M. WELLS,	Hebron.
MARIE WHITEHEAD,	Granville.
JAMES WATSON WOLFE,	Ironton.
EVA LUCILE WRIGHT,	Granville.
MARION FAE YOUNG,	Newark.



## Students in School of Art

RUTH WOODIN ABELL,	Toledo.
HELEN P. BAKER,	Cleveland.
NELLIE BALLOU,	Newark.
E. LAUREL BARNES,	Remington, Ind.
HARRIET AMELIA BARRINGTON,	Granville.
EDITH M. BEARD,	Wilkinsburg, Pa.
BEULAH BELT,	Granville.
GRACE ADELE BOND,	Granville.
LYDIA BOSWELL,	Granville.
VERGIL N. BROWN,	Joliet, Ill.
FAITH BRYANT,	Toledo.
LYDIA BUCKLAND,	Granville.
GORDON JACOB BURRER,	Sunbury.
MRS. FRANK CARNEY,	Granville.
STELLA COX,	Mt. Vernon.
VIRGINIA CRAWFORD,	Mitchell, Ind.
LAUREL DEVOL,	Granville.
ALICE E. DIETER,	Dayton.
HELEN ENGLAND,	Zanesville.
ADIN A. GRUBB,	Johnstown.
JUSTIN RICHARDSON HARTZOG,	Tecumseh, Mich.
RALPH L. HAZLETT,	Sterling, Col.
WALDO H. HEINRICHS,	Ramapatan, India.
V. FAYE HENRY,	Ironton.
HARRY DEMING HOPKINS,	Granville.
JOSEPH R. HOY,	Newell, W. Va.
ALICE HUTCHISON,	Granville.
ANNA HUTCHISON,	Granville.
JOHN PAUL JONES,	Maumee.
MAMIE LLOYD,	Granville.
HAZEL G. LONG,	Council Bluffs, Ia.
GLADYS MACDOWELL,	Chillicothe.
HAZEL MARTIN,	Hebron.
CARL H. MASTELLAR,	Mt. Vernon.
DOROTHY E. McCANN,	Dayton.
FLORENCE McINTYRE,	Toledo.
MABEL M. METZ,	Newark.
ROBERT BEMIS MILLER,	Salamanca, N. Y.
CHARLES OSWALD MITCHELL,	Toledo.

DWIGHT MOORE,	Zanesville.
LAWRENCE N. MOORE,	Zanesville.
SARA VANHORN MOOREHEAD,	Zanesville.
RALPH HARDEN MORROW,	Granville.
BEULAH MOYER,	Paris, Ill.
BELL NICHOLS,	Alexandria.
BELLE O'DANIEL,	Granville.
ALTA E. PALMER,	Pataskala.
THOMAS WARREN PHILLIPS,	Granville.
CHARLES WILSON PRINE,	Hillsboro.
LAURA NEWELL PRUTY,	Granville.
NORA LENA RAMSOWER,	Granville.
RANDOLPH RECTOR,	Pawtucket, R. I.
CLARENCE EARL RICHARDS,	Columbus.
RUTH RICKERT,	Newark.
ABIGAIL EMMA ROWLEY,	Chester, W. Va.
LOUYS ANTHONY RUMSEY,	Stryker.
ETHEL RUSSELL,	Chicago, Ill.
ETHEL J. SHARER,	Herbron.
MARK SWISHER,	Urbana.
MARIE TILDE,	Granville.
MARGARET E. TIPTON,	Ironton.
HARVEY ALDRICH TRIBOLET,	Burma.
VEDA VANDERVORT,	Mayfield, Mich.
ADALINE VORHEES,	Nelsonville.
CARMI LEWIS WARNER,	Granville.
MARGARET WASSON,	Marshalltown, Ia.
MRS. CHARLES WATKINS,	Granville.
ERNEST FORSYTHE WOODWARD,	Washington C. H.
PAUL VERNON WOOLEY,	Galveston, Ind.

## Students in Denison Summer School

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CHARLES M. ANDREWS,	Baltimore.
LELAND ARNOLD,	Mt. Vernon.
MRS. GUY BELT,	Millersport.
CAROLINE BERNDT,	Newport, Ky.
JOHN BJELKE,	Wellsville.
LOUISE BOGGS,	Granville.
ALMA L. BRUMBACK,	Granville.
ROBERT M. COLLETT,	Wilmington.
ESTHER COOK,	Hebron.
KATHERINE CRITCHFIELD,	Mt. Vernon.
MABELLE CUNNINGHAM,	Cleveland.
VINNIE M. DAWSON,	Portsmouth.
RUTH DEARDORFF,	St. Augustine, Fla.
ROY BURTON DEER,	Harbor Beech, Mich.
MARGARET EDER,	Millersport.
GEORGE F. FINNIE,	Newton-on-Ayr, Scotland.
KATHRYN FRYE,	Millersport.
ALMA GILMER,	Basil.
MARIE GRAHAM,	Newark.
SUE GUTHRIE,	Newark.
FRANCES HASKINS,	Granville.
AGNES HERRON,	Cleveland.
WALTER W. JONES,	Hilliards.
WILLIAM C. JORDAN,	Greenville.
H. L. KAGAY,	Baltimore.
DOROTHY KRAMER,	Hebron.
ELVA LINTON,	Columbus.
LEOTA LITTLEJOHN,	Baltimore.
MAY McCLURE,	Newark.
MARY MCGREGOR,	Portsmouth.
MRS. P. A. McKEOWN,	Portsmouth.
EDNA McNEIL,	Sidney.
IVY McNEIL,	Sidney.
EMERSON MILLER,	Newark.
CHARLES O. MITCHELL,	Toledo.
BOSIN GABIL MOMIN,	Turn, Assam.
H. C. MONROE,	Akron.
AMY MONTGOMERY,	Newark.

DOROTHY MONTGOMERY,	Newark.
EVA A. NIXON,	Granville.
BERTHA OUTCALT,	Basil.
LURETHIA PARRISH,	Millersport.
ELIZABETH A. PIXLEY,	Portsmouth.
MARIE L. PIXLEY,	Portsmouth.
CLARA PRICE,	Baltimore.
ETTIE L. RADCLIFFE,	Cleveland.
MARION G. ROSE,	Granville.
FANCHON SEEVER,	Millersport.
MINNIE A. SHAFFER,	Granville.
HAROLD SMUCKER,	Newark.
EDITH M. SOUTHALL,	Dayton, Ky.
JOSEPHINE SPAIN,	Columbus.
CLYDIA STEWARD,	Stoutsville.
RUTH STEWARD,	Newark.
FLORENCE M. STOUT,	Stoutsville.
DOROTHY M. SWARTZ,	Granville.
ISABEL D. TALBOTT,	Sistersville, W. Va.
KENNETH ULLMAN,	Granville.
INEZ WILSON,	Seio.
ISSEL WISE,	New Lexington.
ANNA WISEMAN,	Sherrett's.
GRACE WOODYARD,	Calle de Hidalgo, Mexico.

## Summary of Student Attendance

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Graduate Students .....	6
Seniors, Granville College .....	34
Shepardson College .....	34
<hr style="width: 10%; margin-left: auto;"/>	
Juniors, Granville College .....	51
Shepardson College .....	34
<hr style="width: 10%; margin-left: auto;"/>	
Sophomores, Granville College .....	54
Shepardson College .....	51
<hr style="width: 10%; margin-left: auto;"/>	
Freshmen, Granville College .....	78
Shepardson College .....	68
<hr style="width: 10%; margin-left: auto;"/>	
Special Students, Granville College.....	19
Shepardson College .....	20
<hr style="width: 10%; margin-left: auto;"/>	
Doane Academy, Senior Year .....	37
Junior Year .....	28
Second Year .....	21
First Year .....	5
Electives .....	46
<hr style="width: 10%; margin-left: auto;"/>	
Conservatory of Music .....	96
School of Art .....	69
<hr style="width: 10%; margin-left: auto;"/>	
Total enrollment in regular sessions, exclusive of all repetitions	590
Enrollment in Summer School, at Buckeye Lake.....	62

## Schedule of Courses and Hours

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All odd numbered courses in the following tables belong to the First Semester, even numbered courses to the Second.

The figure in the first column to the right of the name of the course indicates the number of hours credit given; the next column gives the page of the catalogue on which the course is described; the third column to the right of the course name indicates the division of certain courses into sections, or into lecture and laboratory work. In the columns headed with the names of the days of the week is indicated the hour of recitation for each day on which the class meets. The student will of course use this schedule in connection with the statement of general requirements of the Group which he has chosen, and with the full description of courses given in the detailed statements of the various departments of study. Starred courses (\*) have some peculiarity which cannot be given in the tabulated form of the schedule and for which the student must consult the full description of the course, which will easily be found by using the page reference in the third column.

The Gymnasium hours scheduled are for the required physical exercise of Freshmen, Sophomores and electives of not more than two years' attendance. The detailed assignment of days for individual students will be arranged with the Physical Director.

## Schedule of Courses and Hours

NAME OF COURSE.	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
Art History 2.....	1	71					11:00			Dean Loveridge
Art History 3.....	4	71		8:30	8:30	8:30	8:30			Dean Loveridge
Art History 4.....	4	71		8:30	8:30	8:30	8:30			Dean Loveridge
Art History 6.....	4	72		8:30	8:30	8:30	8:30			Dean Loveridge
Art Theory 1-2.....	2	75			7:30			7:30		Miss Parsons.
Astronomy 1-2.....	1	68								Professor Biefeld
Astronomy 3-4.....	4	69								Professor Biefeld
Astronomy 6.....	2	70								Professor Biefeld
Botany 1 and 2.....	3	66	{ Lec.			1:30				} Professor Stickney
			{ Lab. 1		{ 1:30 2:30		{ 1:30 2:30			
			{ Lab. 2		{ 2:30 3:30		{ 2:30 3:30			
Botany 3 and 4.....	4	66	{ Lec.		11:30		11:30			} Professor Stickney
			{ Lab.			{ 2:30 3:30		{ 2:30 3:30		
Botany 5 and 6.....	3	67	{ Lec.		7:30					} Professor Stickney
			{ Lab.							
*Botany 9.....	2	67	{ Lec.					7:30		} Professor Stickney
			{ Lab.							
*Botany 10.....	2	67	{ Lec.					7:30		} Professor Stickney
			{ Lab.	{ 1:30 2:30						

### Schedule of Courses and Hours—Continued

NAME OF COURSE	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
*Botany 11	3	67						7:30		Professor Stickney
Botany 12	3	68	{ Lec.	7:30	8:30		7:30			} Miss Davies
			{ Lab.	8:30			8:30			
*Botany 14	3	68								Professor Stickney
*Botany 17-18	2	68								Professor Stickney
*Botany 19 and 20		68								Professor Stickney
Chemistry 1-2	4	60	{ Lec.	11:00		11:00				} Professor Brumback
			{ Lab.		10:00 11:00		10:00 11:00			
Chemistry 3 and 4	2	60	Lab.		10:00 11:00			10:00 11:00		} Miss Sifton
			Lab. I	1:30		1:30		1:30		
Chemistry 5 and 6	3	60	Lab. II	2:30 2:30		2:30 2:30		2:30 2:30		} Professor Brumback
			Lec.	3:30		3:30		3:30		
Chemistry 7 and 8	1	60	Lec.		1:30		1:30			Professor Brumback
Chemistry 9 and 10	4	60	{ Lec.	1:30			1:30	1:30		} Professor Brumback
			{ Lab.	2:30				2:30		
*Chemistry 11-12		60	Lab.	7:30 8:30	7:30 8:30	7:30 8:30	7:30 8:30	7:30 8:30		} Professor Brumback
*Chemistry 13 and 14		60								



### Schedule of Courses and Hours—Continued

NAME OF COURSE.	Credit	Page	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
*Chemistry 15 and 16.....	2	61							Professor Brumback
Engineering 1 and 2.....	2	57	{ 2:30		1:30				} Act Prof. Johnson
			{ 3:30		2:30				
Engineering 3.....	4	58	{ 10:00	10:00	10:00	10:00			} Act Prof. Johnson
			{ 11:00	11:00	11:00	11:00			
Engineering 4.....	4	58	{ 1:30	1:30	1:30	1:30			} Act Prof. Johnson
			{ 2:30	2:30	2:30	2:30			
*Engineering 5.....	4	58	{ 1:30	1:30	1:30	1:30			} Act Prof. Johnson
			{ 2:30	2:30	2:30	2:30			
Engineering 6.....	3	58							Act Prof. Johnson
Engineering 7.....	4	58	8:30	8:30	8:30	8:30			Act Prof. Johnson
Engineering 8.....	4	58	10:00	10:00	10:00	10:00			Act Prof. Johnson
Engineering 9-10.....	4	58		7:30		7:30			Act Prof. Johnson
Engineering 11.....	4	59	{ 1:30	1:30	1:30	1:30			} Act Prof. Johnson
			{ 2:30	2:30	2:30	2:30			
Engineering 12.....	1	59			7:30				Act Prof. Johnson
Engineering 13.....	1	59	7:30						Act Prof. Johnson
*Engineering 14.....	2	59							Act Prof. Johnson
English 1 and 2.....	3	46	{ Sec. 1	8:30	8:30		8:30		} Asst Prof. Pence
			{ Sec. 2	2:30	2:30		2:30		

### Schedule of Courses and Hours—Continued

NAME OF COURSE	Credit	Page	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
English 3 and 4	3	46	11:00		11:00		11:00		Professor Williams
English 5	1	47	10:00						Professor Williams
English 6	2	47		7:30		7:30			Professor Williams
English 7	3	47	1:30	1:30		1:30			Professor Chamberlin
English 8	3	47	11:00		11:00		11:00		Asst. Prof. Pence
English 9 and 10	2	47		11:00		11:00			Professor Williams
English 11	2	47		8:30		8:30			Professor Williams
English 12	3	47	1:30	1:30		1:30			Professor Chamberlin
English 13	3	47		7:30		7:30			Professor Williams
English 14	2	47			10:00		10:00		Professor Williams
English 15	2	47	10:00		10:00				Asst. Prof. Pence
English 17	2	48			11:00		11:00		Asst. Prof. Pence
English 18	2	48							Asst. Prof. Pence
Free Hand Drawing	1	74							Miss Parsons
French 1 and 2	4	44	Sec. 1	8:30	8:30		8:30	8:30	} Professor McKibben Asst. Prof. Odebrecht Miss McKibben
			Sec. 2	1:30	1:30		1:30	1:30	
French 3 and 4	4	44	1:30	1:30		1:30	1:30		Professor McKibben
French 5	3	44	7:30	7:30	7:30				Asst. Prof. Odebrecht
French 6	3	45			7:30	7:30	7:30		Asst. Prof. Odebrecht
French 7 and 8	1	45			1:30				Asst. Prof. Odebrecht

### Schedule of Courses and Hours—Continued

NAME OF COURSE	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
French 9-10 .....	2	45								Asst. Prof. Odebrecht
French 11 .....	3	45								Asst. Prof. Odebrecht
French 12 .....	3	45								Professor McKibben
*Geology 1 .....	4	56	{ Lec.	8:30			8:30			} Professor Carney
			{ Lab.							
Geology 2 .....	2	56		1:30				1:30		Professor Carney
*Geology 3 and 4 .....	4	56	{ Lec.		11:00		11:00			} Professor Carney
			{ Lab.							
Geology 5 and 6 .....	3	56	{ Sec. 1		10:00		10:00			} Professor Carney
			{ Sec. 2	11:00		11:00				
*Geology 7 .....	2	57								Professor Carney
*Geology 8 .....	3	57		7:30	7:30	7:30	7:30			Professor Carney
*Geology 9 and 10 .....	2	57								Professor Carney
*Geology 11 and 12 .....	2	57								Professor Carney
German 1 and 2 .....	4	50	{ Sec. 1	10:00	10:00		10:00	10:00		} Professor Chamberlin Dr. Hundley
			{ Sec. 2	1:30	1:30		1:30	1:30		
German 3 and 4 .....	4	50	{ Sec. 1	8:30	8:30		8:30	8:30		} Professor Chamberlin and Asst. Prof. Odebrecht
			{ Sec. 2	10:00	10:00		10:00	10:00		
German 5 and 6 .....	3	51		7:30		7:30		7:30		Professor Chamberlin
German 7 and 8 .....	3	51		8:30		8:30		8:30		Professor Chamberlin

### Schedule of Courses and Hours—Continued

NAME OF COURSE	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
German 9 and 10	2	51			8:30		8:30			Professor Chamberlin
German 11 and 12	3	51		8:30		8:30		8:30		Professor Chamberlin
Greek 1 and 2	4	42		10:00	10:00		10:00	10:00		Professor Colwell
Greek 3 and 4	4	43		7:30	7:30		7:30	7:30		Professor Colwell
Greek 5	4	43		8:30	8:30		8:30	8:30		Professor Colwell
Greek 6	3	43			1:30		1:30	1:30		Professor Colwell
Greek 8	3	43			8:30		8:30	8:30		Professor Colwell
Gymnasium Hours	4	75	Sec. 1		7:30			7:30		} Mr. Livingston
			Sec. 2	2:30			2:30	2:30		
			Sec. 3			2:30		2:30		
Gym. Shap. Col.			Fr. I	2:30			2:30			} Miss Teeple
			Fr. II			4:00		4:00		
			Soph. Jr.		8:30			8:30		
			Adv.			2:30				
			Prep. I	4:00			4:00			
Prep. II	8:30			8:30						
History 1 and 2	4	52	Sec. 1	1:30	1:30	1:30	1:30			} Mr. Kull
			Sec. 11	2:30	2:30	2:30	2:30			
History 3 and 4	3	52		7:30		7:30		7:30		Professor Goodell
History 5 and 6	3	52		8:30		8:30		8:30		Mr. Kull
History 7 and 8	3	53		8:30		8:30		8:30		Mr. Kull
Italian 2	4	45			10:00	10:00	10:00	10:00		Professor McKibben
Italian 3	4	45			2:30	2:30	2:30	2:30		Professor McKibben

### Schedule of Courses and Hours—Continued

NAME OF COURSE.	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
Latin 1 and 2.....	4	48	{ Sec. 1	7:30	7:30	7:30		7:30		Asst. Prof. Pence
			{ Sec. 2	11:00	11:00	11:00		11:00		Professor Johnson
Latin 3 and 4.....	4	49		8:30	8:30	8:30		8:30		Professor Johnson
Latin 5 and 6.....	4	49		10:00	10:00	10:00		10:00		Professor Johnson
Latin 7 and 8.....	2	49		1:30		1:30				Professor Johnson
Latin 9 and 10.....	2	49			1:30			1:30		Professor Johnson
Latin 11 and 12.....	2	49		2:30		2:30				Professor Johnson
Logic 5 and 6.....	3	41		7:30		7:30		7:30		Asso. Prof. Spencer
Mathematics 1 and 2.....	3	41	{ Sec. 1	7:30	7:30		7:30			} Professor Biefeld and Asso. Prof. Peckham
			{ Sec. 2	8:30	8:30		8:30			
			{ Sec. 3	10:00	10:00		10:00			
Mathematics 1a.....	1	42				7:30				Asso. Prof. Peckham
Mathematics 3 and 4.....	4	42		11:00	11:00	11:00	11:00			Asso. Prof. Peckham
Mathematics 3a and 4a.....	5	42		7:30	7:30	7:30	7:30	7:30		Professor Biefeld
Mathematics 5.....	4	42		10:00	10:00	10:00	10:00			Asso. Prof. Peckham
Mathematics 6.....	3	42		10:00	10:00		10:00			Asso. Prof. Peckham
*Mathematics 7.....	4	42		11:00	11:00	11:00	11:00			Assoc. Prof. Peckham
Music 1 and 2.....	1	72		8:30						Mr. Wood
Music 3 and 4.....	1	72					8:30			Mr. Wood
Music 5 and 6.....	3	72		1:30		1:30		1:30		Mr. Wood

### Schedule of Courses and Hours—Continued

NAME OF COURSE	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
Music 7 and 8	3	73		11:00		11:00		11:00		Mr. Wood
Music 9 and 10	3	73		10:00		10:00		10:00		Mr. Wood
Music 11 and 12	2	73			10:00		10:00			Mr. Wood
Music 13 and 14	2	73			8:30			8:30		Mr. Wood
Music 15 and 16	2	73			11:00		11:00			Mr. Wood
Music 17 and 18	1	73		2:30						Asst. Prof. Coons
*Pedagogy 1 and 2	3	70		7:30	7:30	7:30				Dean Loveridge
*Pedagogy 3 and 4	3	70		7:30	7:30	7:30				Dean Loveridge
Philosophy 1	1	41					11:00			President Hunt
Philosophy 3	4	41			10:00	10:00	10:00	10:00		President Hunt
Philosophy 4	5	41		10:00	10:00	10:00	10:00	10:00		President Hunt
Physics A and C	3	64		11:00		11:00		11:00		Asst. Prof. Coons
Physics B and D	2	64	Lab. I		10:00		10:00			Asst. Prof. Coons
			Lab. II		1:30		1:30			Asst. Prof. Coons
Physics 1-2	3	64			8:30	8:30		8:30		Professor Lawton
Physics 3	4	64	Lab. I		7:30	7:30	7:30	7:30		Asst. Prof. Coons

Schedule of Courses and Hours—Continued

NAME OF COURSE.	Credit	Page		Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	NAME OF INSTRUCTOR
Physics 3 .....	4	64	Lab. II		{ 1:30 2:30	1:30 2:30	1:30 2:30	1:30 2:30		Asst. Prof. Coons
Physics 4 .....	4	64	{ Lec. Lab.		{ 7:30 8:30	7:30 8:30	7:30	7:30 8:30		Asst. Prof. Coons Professor Lawton
Physics 5-6 .....	3	65	Lab.	{ 1:30 2:30	1:30 2:30		1:30 2:30			Professor Lawton Asst. Prof. Coons
Physics 7-8 .....	3	65		11:00	11:00		11:00			Asst. Prof. Coons
Physics 9-10 .....	4	65	{ Lec. Lab.		1:30		1:30			Professor Lawton
Physics 11 and 12 .....	1	65				{ 1:30 2:30		1:30 2:30		Professor Lawton
*Physics 15 and 16 .....		65		8:30						Professor Lawton
Physics 17-18 .....	1	66		2:30						Asst. Prof. Coons
Polit. Sci. 2-3 .....	4	53		8:30	8:30	8:30	8:30			Professor Goodell
Polit. Sci. 4 .....	3	54		11:00		11:00		11:00		Mr. Kull
Polit. Sci. 5-6 .....	4	54		8:30	8:30	8:30	8:30			Professor Goodell
Polit. Sci. 7 .....	3	54		1:30		1:30		1:30		Professor Goodell
Polit. Sci. 9 .....	3	55		11:00		11:00		11:00		Professor Goodell
Polit. Sci. 10 .....		55		7:30		7:30		7:30		Professor Goodell

### Schedule of Courses and Hours—Continued

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			II	2:30		2:30	2:30			Asst. Prof. Hoppe
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Public Speaking 10	2	74								Asst. Prof. Hoppe
Spanish 1 and 2	4	45		7:30	7:30		7:30	7:30		Professor McKibben
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