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For information concerning Granville College, address
C. W. CHAMBERLAIN, Ph. D., President
GRANVILLE, OHIO

For information concerning Shepardson College, address
MARGARET JUDSON, A M., Dean
GRANVILLE, OHIO

For information concerning the Conservatory of Music, address
KARL H. ESCHMAN, A. M., Director
GRANVILLE, OHIO

For information concerning Doane Academy, address
H. RHODES HUNDLEY, D. Sc., Dean
GRANVILLE, OHIO
The University Calendar

1915

February 8 Monday . Second Semester begins, 7:30 A.M.
April 1 Thursday . Spring Recess begins, 4:30 P. M.
April 8 Thursday . Spring Recess ends, 7:30 A. M.
June 13 Sunday . Baccalaureate Sermon and Sermon before Christian Associations.
June 14 Monday . Graduating Exercises of Doane Academy, 10 A. M.
Field Day, 1:30 P. M.
Lewis Literary Prize Contest, 8 P. M.

June 15 Tuesday . Class Day Exercises, 10 A. M.
Alumni Meeting, 2 P. M.
President's Reception, 8 P. M.

June 16 Wednesday . University Commencement, 10 A. M.
Alumni Dinner, 1 P. M.

Summer Vacation, June 16 to September 16.

September 15 Wednesday Examinations for Admission.
September 16 Thursday First Semester begins, 9 A. M.
November 24 Wednesday Thanksgiving Recess begins, at noon.
November 29 Monday Thanksgiving Recess ends, at noon.
December 17 Friday Holiday Recess begins, 4:30 P. M.

1916

January 4 Tuesday Holiday Recess ends, 7:30 A. M.
January 13 Thursday Day of Prayer for Colleges.
February 1-3 Tues.-Thurs. Mid-year Examinations.
February 7 Monday Second Semester begins, 7:30 A. M.
March 29 Wednesday Spring Recess begins, at noon.
April 5 Wednesday Spring Recess ends, at noon.
June 14 Wednesday Commencement.
Board of Trustees

Officers of the Board

G. Moore Peters, A.M., LL.D., President.
Charles T. Lewis, A.B., Vice President.
Millard Brelsford, A.B., Secretary.
Elmer E. Hopkins, A.B., Treasurer.

Members

Ex-Officio.

Clark W. Chamberlain, A.B., Ph.D..................Granville
President of the University.

Class I.—Term Expires June 1915.

Eugene J. Barney, Esq...............................Dayton.
Samuel F. Van Voorhis, Esq..........................Newark.
Torrence Huffman, Esq..............................Dayton.
Jacob R. Davies, A.M...............................Newark.
Vinton R. Shepard, A.M..............................Cincinnati.
Benjamin F. McCann, A.M.............................Dayton.
Lewis R. Zollers, Esq...............................Canton.
Ambrose Swasey, Sc.D...............................Cleveland.
John M. Swartz, A.M...............................Granville.
Fred D. Barker, B.Ph., M.D........................Dayton.
CLASS II.—Term Expires June 1916.

CHARLES T. LEWIS, A.B. Toledo.
W. HOWARD DOANE, MUS.D. Cincinnati.
EDWARD CANBY, ESQ. Dayton.
G. MOORE PETERS, A.M., LL.D. Cincinnati.
REV. MILLARD BRELFORD, A.B. Granville.
HARVEY KEELER, A.B. Cleveland.
JOHN M. AMOS, ESQ. Cambridge.
JULIUS G. LAMSON, ESQ. Toledo.
CHARLES H. PRESCOTT, JR., ESQ. Cleveland.

CLASS III.—Term Expires June 1917

HENRY A. SHERWIN, ESQ. Cleveland.
FREDERICK P. BEAVER, ESQ. Dayton.
WILLARD D. CHAMBERLIN, ESQ. Dayton.
PROFESSOR ALFRED D. COLE, A.M. Columbus.
EDWARD A. DEEDS, B.S. Dayton.
BURTON CASE, ESQ. Granville.
WALLACE H. CATHCART, B.S. Cleveland.
OSMAN C. HOOPER, A.M. Columbus.
DAVID E. WILLIAMS, A.B. Columbus.
DAVID E. GREEN, B.S. Cleveland.
Committees

EXECUTIVE COMMITTEE.

CLARK W. CHAMBERLAIN, Chairman.
Jacob R. Davies, Millard Brelsford,
Benjamin F. McCann, John M. Swartz.

FINANCE COMMITTEE.

Benjamin F. McCann, Chairman
Edward Canby
Eugene J. Barney
W. Howard Doane
Frederick P. Beaver
Term Expires 1915
Term Expires 1916
Term Expires 1918
Term Expires 1919

FINANCE EXAMINING COMMITTEE.

Torrence Huffman, Willard D. Chamberlin.

AUDITING COMMITTEE.

David E. Williams, Samuel F. Van Voorhis,

COMMITTEE ON LIBRARY AND LABORATORIES

Wallace H. Cathcart, Chairman.
Clark W. Chamberlain, Charles J. Rose,
William H. Johnson, Osman C. Hooper.

COMMITTEE ON INSTRUCTION.

Wallace H. Cathcart, Chairman.
Herbert F. Stilwell, John M. Amos,
Charles T. Lewis, Vinton R. Shepard,
Millard Brelsford, Henry F. Colby,
Alfred D. Cole.

COMMITTEE ON CONSERVATORY OF MUSIC.

Charles T. Lewis, Chairman.
W. Howard Doane, Charles H. Prescott,
Augustine S. Carman, Osman C. Hooper.

COMMITTEE ON CAMPUS AND BUILDINGS.

Ambrose Swasey, Chairman.
Eugene J. Barney, Frederick P. Beaver,
Edward A. Deeds, Julius G. Lamson.
The Faculty of Instruction

CLARK W. CHAMBERLAIN, A.B., Ph.D., President.
Maria Theresa Barney Professor of Intellectual and Moral Philosophy.

Professor of the Greek Language and Literature.

GEORGE F. MCKIBBEN, A.M., Ph.D.,
Professor of the Romance Languages.

CHARLES L. WILLIAMS, A.M., L.H.D.,
Professor of Rhetoric and English Literature.

WILLIAM H. JOHNSON, A.M.,
Eliam E. Barney Professor of the Latin Language and Literature.

H. RHODES HUDLEY, A.M., Sc.D.,
Dean of Doane Academy, with rank of Professor.

WILLIS A. CHAMBERLIN, A.M., Ph.D.,
Professor of the German Language and Literature.

CHARLES E. GOODELL, A.M.,
Professor of History and Political Science.

FRANK CARNEY, A.M., Ph.D.,
Professor of Geology and Mineralogy.

ARTHUR M. BRUMBACK, A.M.,
Professor of Chemistry.

MALCOLM E. STICKNEY, A.M.,
Professor of Botany.

PAUL BIEFELD, A.B., Ph.D.,
Professor of Astronomy and Director of the Swasey Observatory.

FORBES B. WILEY, A.B., Ph.D.,
Benjamin Barney Professor of Mathematics.

CLARENCE D. COONS, M.S.,
Henry Chisholm Professor of Physics.

MARGARET JUDSON, A.M.,
Dean of Shepardson College and Professor of English.
Theodore S. Johnson, M.S.,
Professor of Civil Engineering.

Thomas A. Lewis, A.M., Ph.D.,
Acting Professor of Education and Philosophy.

Anna B. Peckham, A.M.,
Associate Professor of Mathematics.

Bunyan Spencer, A.M.,
Associate Professor of Philosophy.

Raymond W. Pence, A.M.,
Assistant Professor of English.

August Odebrecht, A.M.,
Assistant Professor of Modern Languages.

Victor H. Hoppe, A.B.,
Assistant Professor of Public Speaking.

Irving Stoedard Kull, A.M.,
Assistant Professor of History.

Alfred W. Orcutt, A.M.,
Assistant Professor of Zoology.

* * *

Karl H. Eschman, A.M.,
Director of the Conservatory and Instructor in Musical Theory.

Walter Livingston, B.S.,
Director of Physical Training for Men.

Lily Bell Sefton, B.S.,
Instructor in Chemistry.

Fannie J. Farrar,
Instructor in Piano and Head of Department.

Charles W. Henderson, B.S.,
Instructor in Physics.

Carrie M. Howland,
Instructor in Art.

Eugenia E. Finley,
Instructor in Domestic Science.

Sarah H. Seymour,
Instructor in Art.
DENISON UNIVERSITY

ANNABEL BRADSTREET, A.B.,
Instructor in Physical Training for Women

HENRY H. TILBE, A.B.,
Instructor in Latin.

FRANCIS F. PATRICK, B.PH.,
Instructor in English.

GAYLE I. SMITH,
Instructor in Violin.

GRACE JEANNETTE BROOKS,
Instructor in Voice and Head of Department.

HENRY PRESTON, A.M.,
Instructor in Voice.

LEILA C. BROWN,
Instructor in Organ and Piano.

RUTH ESTHER ROCKWOOD
Assistant in Harmony

RUTH ORCUTT, M.S.,
Assistant in Biology.

HAROLD W. EMSWILER,
Assistant in Mathematics.
Committees of the Faculty

Committee on Curriculum:
Professors Colwell, Biefeld, Brumback, Goodell, Associate Professor Peckham.

Committee on Entrance and Advanced Standing:
Professors W. H. Johnson, Goodell and Hundley.

Committee on Registration and Classification:
Professors Goodell, Colwell and Judson.

Committee on Student Aid:
President Chamberlain, Professors Colwell, Judson and Hundley, Associate Professor Spencer, E. E. Hopkins, and Mrs. Alice K. Herrick.

Committee on Student Affairs:
President Chamberlain, Professors T. S. Johnson and Judson.

Committee on Advanced Degrees:
Professors W. A. Chamberlin, Biefeld, and Assistant Professor Orcutt.

Committee on Rules and Regulations:
Professors Carney, McKibben and Wiley.

Committee on Schedule:
Professors Coons, W. H. Johnson, Associate Professor Peckham, and Assistant Professor Orcutt.

Committee on Calendar:
Professor Judson, Assistant Professor Kull, and Mr. Eschman.

Committee on Teaching Appointments:
Professors W. H. Johnson, Coons, and Lewis.

Committee on Student Publications:
Professors W. H. Johnson, McKibben, and Williams.

Committee on Athletics:
Professors T. S. Johnson, Colwell, and Coons.

Committee on Inter-Collegiate Debating:
Associate Professor Spencer, Professor Williams, and Assistant Professor Hoppe.
Officers of Administration

CLARK W. CHAMBERLAIN, A.B., Ph.D.,
President of the University.

RICHARD S. COLWELL, A.M., D.D.,
Dean of the University.

MARGARET JUDSON, A.M.,
Dean of Shepardson College.

H. RHODES HUndLEY, Sc.D.,
Dean of Doane Academy.

CHARLES E. GOODELL, A.M.,
Registrar.

ELMER E. HOPKINS, A.B.,
Treasurer, Curator and Business Manager.

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

WILLIAM H. JOHNSON, A.M.,
Editor of the University Bulletins.

MARY H. HUNT, A.B.,
Recorder.

RUTH I. HOPKINS,
Assistant to the Treasurer.

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

MRS. CARRIE M. ALTROGGE,
Director of Shepardson Commons.
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 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 through-
out, 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 offices 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 Shepardson 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 was built, equipped and presented to the University by Ambrose Swasey, Sc.D. 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.

A wireless telegraphic receiving station is installed in connection with the Observatory, through which the correct time is received twice each day from the National Observatory at Arlington.

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 kilowatt Thresher generator, direct-connected to a 60-horsepower Ball engine, and one 75 kilowatt Thresher generator, direct-connected to a Russell engine of 110 horsepower. 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 administrative 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 workshop 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 work. From the Highway Commissions 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 Departments 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 serves for special research along several lines suitable for students prepared for it. 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 observations, 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 library contains a standard Seth Thomas mean time clock, regulated to Central Time, and the sidereal and mean time clocks, made by Riefler, of Munich. These are the finest clocks made for astronomical purposes, surpassing all others in precision. The cylindrical 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 at least one-tenth of a second. A telegraph sounder is also
provided, audible in transit and equatorial rooms, for the eye and ear method of observing. The standard barometer with attached thermometer is also placed in the library. The shelves contain complete sets of the Proceedings of the Royal Astronomical Society of London, of the Monthly Notices, the Memoirs of the British Astronomical Association, the Journal of the British Astronomical Association, the Astrophysical Journal, and the Royal Society Proceedings. There are besides this the usual collection of star maps, charts, photographs, 18-inch celestial globe, files of the more important astronomical journals, and various of the latest reference books on astronomy in English, German and French.

The library is used as a computing room and laboratory in connection with the elementary courses, and with the adjoining darkroom is lighted both by electricity and gas and heated by an independent hot water system.

During the past year a very important additional equipment has become possible through the generosity of Mr. Swasey, namely, a very excellent wireless receiving station. This consists of two hog-chained steel poles seventy-five feet high and two hundred and fifty feet apart, erected about fifty feet back of the Observatory in an east and west line; serving for the support of a horizontal directive antenna, (Arlington-Granville), of four copper wires six feet apart. The connection with the receiving instrument, located in the library, is made by a rat-tail construction joined to the antenna about midway between the poles. The receiving set is of the commercial type of finest modern construction, capable of receiving waves up to 4000 meters. The receiving range of course depends largely on the power of the sending station, but is about 2000-2500 miles, if waves come from a powerful sending station and a very sensitive detector is employed.

This new equipment is used in the course for the determination of the longitude of the Observatory by the students in Practical Astronomy and for the control of the astronomical clocks when the usual means are not at command. Time signals are
received daily at eleven A. M. and nine P. M. Central Time from the Government Wireless Station at Arlington, Va.

LIBRARY PRIVILEGES.

The University Library is open to the instructors and students in all departments. 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 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.

GEOLOGICAL SOCIETY.

The C. L. Herrick 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.

HISTORY AND POLITICAL SCIENCE ASSOCIATION.

The object of this association is to promote a study of the current literature of the Social Sciences, and from time to time to consider problems of research which any of its members may have in hand, as well as to cultivate a closer personal and professional feeling among its members. Any student who has
acquired at least twelve points in History or Political Science is eligible to active membership.

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 Sheppardson 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.

Contests in debate are held annually with a number of other colleges. In preparation for these debates a regular class is organized, under instruction by a member of the college faculty, and members of the teams register for this work as for any other study, receiving a certain amount of scholastic credit when the work is satisfactorily done. At present there are two debating teams, each participating in two inter-collegiate debates during the college year.

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 Frederick P. Beaver, Esq., of Dayton. A similar association has been organized by the young women of the University, called the Sheppardson 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 for prayers, and this service the students in all departments are required to attend.

Valid reasons for exemption from this requirement will be considered if presented to the proper authority for approval in advance. For men in college classes, this matter is in the hands of Dean Colwell; for women, Dean Judson; for students in Doane Academy, Dean Hundley. All students 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 PUNCTUALLY.

Punctuality in entering 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.

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.

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.

Students not making a passing grade in any study are marked F. If any study so marked is necessary to the completion of their course, it must be taken over again in class, or if that is impossible, in such manner as the Faculty shall direct.

EXAMINATIONS.

A careful examination of every class is held at the close of each semester. All students, whether candidates for degrees 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.
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 deportment.

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 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.

4. *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 FUNDS.

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

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.

*Not offered for the current year.
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 Gilpatrick Scholarship, endowed by a fund contributed through the Society of the Alumni by former students and friends of the late Professor John Lord Gilpatrick.
15. 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.
16. The Ohio Baptist Education Society has at its disposal free tuition scholarships for its beneficiaries to the number of forty, if necessary.
17. 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.
18. 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 B.Ph. 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 DEGREES.

Candidates for the degrees of Master of Arts or Master of Science, must pursue graduate work in residence for one year (not less than thirty credit hours) under the direction of the Committee on Advanced Degrees. Suitable courses taken before graduation and not credited towards the requirement for the Bachelor’s degree may constitute not to exceed one-half of this work, but the Master’s degree will not be granted earlier than one year after the Bachelor’s degree.

Before registering for work for a second degree, the applicant must present his proposed course of study to the Committee on Advanced Degrees, and the Professor under whom the major work is to be taken, and secure their approval of the same. Work done at other institutions and offered towards a second degree is subject to examination, at the option of the Committee, before acceptance. A final examination is given, on completion of the course, covering all the work offered in candidacy for the degrees. The committee of examination consists of the standing Committee on Advanced Degrees and the instructors under whom the work
has been taken. Ability to read French or German is prerequisite to all graduate courses. For further details, consult the chairman of the Committee, Professor Willis A. Chamberlin.

Students in graduate courses are subject to the same tuition incidental and laboratory fees as others. The diploma fee for the Master's degree is ten dollars.

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 the 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 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 readjustment 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.

**Conditions of Admission**

*All statements in the following pages concerning entrance, requirements for graduation, courses of study, the group system, etc., apply equally to young men in Granville College and young women in Shepardson College.*

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.

REGISTRATION OF NEW STUDENTS.

1. Students registering in Denison University for the first time must first see the President and secure from him an admission card. With this card, the student will then present to the
Registrar his credentials, which must include an official statement of all credits earned before coming to Denison. He will then receive a registration card on which to write a list of subjects for which he wishes to register. If he is of Freshman rank and entering for a regular course leading to a degree, this card will be filled out under the direction of some member of the Committee on Entrance, present in the Registrar’s office.

After completing this process, the student receives from the Registrar a class card, together with a statement of his term bills. With this statement he proceeds to the Treasurer’s office and settles the bills thereon indicated, retaining the class card in his own possession. He is then duly registered, and his name will be certified from the Registrar’s office to the instructors of the various classes in which he is to be enrolled.

No student will be admitted to any class until the above steps have all been taken.

Changes in Registration.—Ordinarily no changes will be allowed in registration after the registration card has been filed with the Registrar. For every change that is allowed, a fee of fifty cents will be charged unless remitted by the Registrar.

Late Registration.—All students must complete their registration and settle with the Treasurer by the close of the second day of each semester. Failure to do so will be counted as late registration, entailing a fee of one dollar.

Normal Registration.—All students entering the University with the intention of completing a course leading to a degree, are required to register for at least thirteen hours. To take less than this requires special permission, for which the student should apply at the Registrar’s office. The normal amount of work for which a student is supposed to register is sixteen credit hours per semester, and the student must ask permission to register for more. Students registering for more than eighteen hours are required to pay a fee of one dollar for each credit hour in excess.
ANNUAL CATALOGUE

SUBJECTS OPEN TO FRESHMEN.

1. **Required Subjects.**—

(a) Those in the Classical course must take the following subjects during their Freshmen year: Greek, 1 and 2; Latin, 1 and 2; English, 1 and 2; Mathematics, 1 and 2. (Mathematics 1b and 2b may be taken by students looking forward to the more advanced courses in Mathematics, Physics or Engineering.) One or two hours in addition may be elected from subjects open to election mentioned below.

(b) Those in the Philosophical course must take the following subjects during their Freshmen year: English, 1 and 2; Mathematics, 1 and 2, or 1b and 2b, as explained in the preceding paragraph; four hours of language each semester, Latin or Greek, or a modern language, preferably continuing the modern language offered for entrance, if any, where less than three years is offered. Five or six hours in addition may be elected from the subjects open to Freshmen. (See below.)

(c) Those in the Scientific course must take the following subjects during their Freshmen year: English 1 and 2; Mathematics, 1 and 2, or 1b and 2b in cases where it is desired to complete the fundamental work sooner as a basis for higher work in pure Mathematics, Physics or Engineering; a modern language, a year of science, either General Chemistry, or Chemistry 3 and 4 if High School Chemistry is offered, or Physics 1 and 2. Additional election to make sixteen hours to be made from subjects open to election below.

The above named subjects cannot be postponed except with the approval of the Committee on Registration and Classification. Those desiring to postpone any subject must first see the Registrar.

2. **Subjects Open to Election.**—

In addition to the required subjects, the following subjects are open to Freshmen. Courses designated by odd numbers are given during the first semester, even numbers, the second.

- Astronomy, 1 and 2.
- Biology, 1 and 2.
Botany, 7, 8, 9, 10.
Civil Engineering, 1 and 2, 4.
Chemistry. General Chemistry, or if the student offers chemistry for entrance, Chemistry 3 and 4.
Geology, 5 or 6.
History, 1 and 2.
Physics, 1 and 2.
Political Science, 2.
Public Speaking, 1, 2, 3, 4.
Zoology, 13, 15, 16.
Music, 1, 2, 5, 6, 7, 8, 17, 18.
In addition to the foregoing, all language courses are open to Freshmen who can furnish the necessary prerequisites.

**Dropping Work**—
Students wishing to drop a course must *first* see the Registrar and secure a change card. Dropping out of a class without permission obtained through the Registrar's office will be counted as a failure in the course dropped and will be so recorded.

**Requirements for Graduation.**
To obtain the baccalaureate degree, the candidate must have completed one of the three courses, Classical, Scientific, or Philosophical, outlined on pages 80-89. This requires the completion of not less than 124 units, or credits, of scholastic work, the unit consisting of one hour a week of lecture or recitation, or two hours a week of laboratory work, through one semester. Four units of physical training are also required. Beginning with the class to be graduated in 1915, no degree will be given to a candidate whose work shall not have been of such a grade as to receive 135 "points," calculated as follows: for each semester hour of work graded A (excellent) by the instructor, the student receives two points; for each hour graded B (good) one and one-half points; for each hour graded C (fair) one point. No points are given for work graded D (poor). By the close of the Spring Recess previous to graduation the student, in order to be graduated, must have to his credit at least one hundred and six hours of college work and one hundred and eight points.
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 credit for at least twenty-two hours of college work and twenty-four points by the beginning of the year. For Junior standing he must have completed at least fifty-eight hours of college work and sixty-four points, and for Senior standing at least ninety-two hours and one hundred and one points. Gymnasium work required of Freshmen and Sophomores respectively must be completed before they will be advanced to Sophomore and Junior standing.

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.
Statement of Work in the Various Departments of Instruction

EDUCATION AND PHILOSOPHY.

PRESIDENT CHAMBERLAIN.
(Office hours, 10:30 A.M. daily.)

ACTING PROFESSOR LEWIS.
(Office hours, Wednesday and Friday, 9:30 A.M.)

ASSOCIATE PROFESSOR SPENCER.

PHILOSOPHY.

1. Psychology. An introductory study of the different functions of the mind and of the laws that control its activity. The course is based on the results of introspective and experimental investigation. Open to Seniors. First semester, Monday, Tuesday and Thursday, 9:30 A.M.

2. Ethics. A discussion of the principles that obtain in moral conduct and of the methods by which these principles are applied in actual living. The problem of understanding the theory of ethical judgment and motive and the way it may be applied to the particular situation. Open to Seniors. Second semester, Monday, Tuesday and Thursday, 9:30 A.M.

4. History of Philosophy. A review of the larger philosophical movements beginning with the ancient speculation of the early Greek thinkers. Special emphasis on modern theory and present tendencies. Open to Seniors. Second semester, Monday, Tuesday, and Thursday, 10:30 A.M.

5. Logic. Deductive and Inductive. The subject is treated not merely as a system of mental gymnastics but as a method of practical training for philosophical, scientific and judicial investi-
gations. Open to Sophomores, Juniors, and Seniors. Second semester, Tuesday, Thursday and Friday, 2:30 p. m.

7. **Argumentation.** Special attention is given to debate. Open to Juniors and Seniors and others at the discretion of the Instructor. First semester, Tuesday, Thursday and Friday, 2:30 p. m. Courses 6 and 7 are given by Associate Professor Spencer.

**EDUCATION.**

The courses in education give students who expect to teach an opportunity to gain some knowledge of the principles and practice of that work. The subjects offered, along with 1, 2, and 4 in philosophy, count in absolving the requirement of thirty hours professional training set by the Ohio School Law of 1914 for those who wish to secure a four-year provisional life certificate without an examination, and after twenty-four months of teaching, a life certificate.

1. **History of Education.** A general survey of educational practice and theory from ancient times to the present—subject matter, method, discipline, organization, etc. The influences of social conditions upon education. Special emphasis on the work of modern educational reformers. Open to Sophomores. First semester, Monday, Wednesday and Friday, 8:30 a. m.

2. **Secondary Education in the United States.** The historical development of American middle schools—Grammar School, Academy, High School, and Normal Schools. Comparison with foreign systems. Present tendencies. Open to Sophomores. Second semester, Monday, Wednesday and Friday, 8:30 a. m.

3. **Principles of Education.** An introduction to the fundamentals of education from the side of psychology and of sociology. The processes of learning, instinct, interest, habit, memory, etc.; and development that relates to social life. Open to Juniors. First Semester, Tuesday, Thursday and Friday, 1:30 p. m.

4. **High School Methods.** The choice and presentation of subject matter. The handling of the different subjects, both with regard to studying and to teaching. School routine and man-
agement. Open to Juniors. Second Semester, Tuesday, Thursday and Friday, 1:30 P.M.

4a. Observation and Practice Teaching. This work may be taken only by those who have had the course in high school methods. Three credits.

MATHEMATICS.

ASSOCIATE PROFESSOR WILEY.

Courses 1 and 2, as described below, are required of all candidates for degrees unless the more extended courses, designated 1b and 2b, are substituted in their stead. Courses 1, 2, 3, 4 and 5 form a sequence, likewise courses 1b, 2b, 3b, and 4b. Or courses 1, 2, 3, 3b and 4b may be taken in sequence. The second sequence: 1b, 2b, 3b and 4b, is advised by the heads of the departments of Astronomy, Civil Engineering, Mathematics, and Physics for students who anticipate doing their major work in any of these departments.

1. Plane Trigonometry. Freshman year, first semester. Sections at 7:30 and 8:30 Monday, Wednesday and Friday; 10:30 Monday, Tuesday and Thursday; 2:30 Tuesday, Thursday and Friday.

2. Algebra. Selected portions, Freshman year, second semester, sections and hours as indicated for course 1, above.

1b-2b. Plane Trigonometry, Algebra, and Analytic Geometry, each twelve weeks. Freshman year, both semesters, five hours per week, 9:30 A.M. Advised instead of courses 1 and 2 for students doing their major work in departments of Astronomy, Civil Engineering, Mathematics, or Physics.

3. Analytic Geometry. First semester, four hours per week, Friday excepted, 8:30 A.M. Prerequisite, courses 1 and 2.

3a—4a. Analytic Geometry, Differential and Integral Calculus. Both semesters, five hours per week, 7:30 A.M. Prerequisite, courses 1 and 2. Courses 3a—4a will be superseded by 3b—4b after the year 1915-1916.
3b. *Differential Calculus.* First semester, five hours per week, 7:30 A.M. Prerequisite, course 2b or 3. Not offered in 1915-1916.

4b. *Integral Calculus.* Second semester, five hours per week, 7:30 A.M. Prerequisite, course 3b or 4. Not offered in 1915-1916.

4. *Differential Calculus.* Second semester, four hours per week, Friday excepted, 8:30 A.M. Prerequisite, course 3 or 2b.

5. *Integral Calculus.* First semester, four hours per week, Monday excepted, 9:30 A.M. Prerequisite, course 4 or 3b.

8. *Differential Equations.* Second semester, four hours per week, Monday excepted, 9:30 A.M. Prerequisite, course 4a or 5. Alternates with course 14 and is not given in 1915-1916.

9. *Theory of Equations.* First semester, Monday, Tuesday and Thursday, 10:30 A.M. Prerequisite, course 3a or 4. Alternates with course 11 and is not given in 1915-1916.


11. *Solid Analytic Geometry.* First semester, four hours per week, Monday excepted, 10:30 A.M. Prerequisite, course 3a or 4. Alternates with course 9 and is offered in 1915-1916.

12. *College Geometry.* A synthetic treatment bearing somewhat the same relation to Plane Geometry as college Algebra does to high school Algebra. This course is designed for students who wish to acquire greater rigor in mathematical reasoning and those who expect to teach high school Geometry. Second semester, Monday, Tuesday and Thursday, 10:30 A.M. Open to all students. Alternates with course 10 and is not offered in 1915-1916.

14. *Advanced Calculus.* Second semester, four hours per week, Monday excepted, 10:30 A.M. Prerequisite, course 4a or 5. Alternates with course 8 and is offered in 1915-1916.
DENISON UNIVERSITY

For courses in Applied Mathematics, see Physics 7-8, Astronomy 6, 9-10, and Civil Engineering 7-8.

HISTORY.

PROFESSOR GOODELL.

(Office hours, 9:30 A. M. daily.)

ASSISTANT PROFESSOR KULL.

(Office hours, Wednesday and Friday, 9:30 A. M.)

History is to society what memory is to the individual. With this in view, the aim of the courses offered is to construct a perspective for understanding the problems that concern society, and particularly to prepare for the social professions,—law, the consular service, politics, the ministry, and education. Further, History presents a setting for the study of the literatures, arts, and sciences which society has developed. Lectures, the text-book, recitations and library readings furnish the materials for all courses in History.

1-2. Medieval and Modern Europe. A general survey of European History from the decline of Rome to the beginning of the eighteenth century. In introduction, the various contributions to Western Europe are summarized, Greek, Roman, Christian and German. The “Fall of Rome,” the rise and spread of the Catholic system, the Medieval Empire, medieval relations of church and state, feudalism, rise of modern nationalities, medieval and renaissance life and culture, the rise and spread of Protestantism, religious wars, the ascendency of France,—these suggest the chief points of emphasis. The course is introductory in design, both as to content and as to emphasis upon methods of study and use of the library. Open to all students. Both semesters, two sections, Monday, Tuesday and Thursday, 9:30 A. M.; Tuesday, Thursday and Friday, 2:30 P. M.

3-4. American Political History. A general course in the political and constitutional history of the United States, from the Confederation to the close of the Reconstruction, following the Civil War. First semester, 1783-1829; second semester, 1829-1876. Open to Juniors and Seniors. Both semesters, Monday,
Wednesday and Friday, 7:30 A.M. Alternates with 9-10 and is given in 1915-1916.

5-6. *English History.* A general course, from the Saxon period to the opening of the nineteenth century. (Constitutional development carried to the twentieth century.) The first semester covers the formative period of the constitution and extends to the Tudor period. The course is of especial value to prospective students of law and of English literature. Open to Juniors and Seniors. Not given in 1916-1916.

7. *The French Revolution and the Napoleonic Era.* The Ancient Regime in France, and the transition to the period of the Revolution; the political, social and international aspects of the Revolution, and the development of the Napoleonic Empire and institutions. Open to Juniors and Seniors and to Sophomores who have had courses 1-2, or who secure special permission from the instructor. First semester, Monday, Wednesday and Friday, 8:30 A.M.

8. *Europe in the Nineteenth Century.* The chief political changes in Europe after 1815; the rise of Liberalism; the revolution of 1848; national and democratic reconstruction of the last half of the century; social, industrial and religious changes. Open to Juniors and Seniors, without prerequisites, and to Sophomores who have had courses 1-2 or who secure special permission from the instructor. Second semester, Monday, Wednesday and Friday, 8:30 A.M.

9. *Renaissance Culture.* The intellectual and cultural aspects of the Renaissance,—man's realization of himself and of nature. The revival of the Classic, and the development of the critical spirit. The approach is largely biographical, Dante, Petrarch, Boccaccio, Valla, and the Medicis being some of the types studied. Open to Juniors and Seniors without prerequisites, to Sophomores who have had courses 1-2, or who secure special permission from the instructor. First semester, Tuesday and Thursday, 8:30 A.M. Alternates with 3. Not given in 1915-1916.
10. The Reformation. An organic continuation of the Renaissance, the Protestant spirit being its German manifestation. The rise of Protestantism, and its embodiment in Luther, Calvin, and Zwingli; the Catholic Reformation; the English and Scottish Reformations. Open to same classes of students as course 9. Second semester, Tuesday and Thursday, 8:30 A.M. Alternates with 4. Not given in 1915-1916.

POLITICAL SCIENCE.

PROFESSOR GOODELL.

(Office hours, 9:30 A.M. daily.)

2. American Government. The practical workings of the various governments, local and national. The rise of party machinery, with the development of certain recent phases of popular government, such as the initiative, referendum, and recall. The election of United States Senators by direct vote. General tendencies in state and national legislation. Open to all students of college rank. Second semester, four hours, Friday excepted, 8:30 A.M.

3. Governments of Europe. A comparative study of the governments of the leading countries of Europe, in their framework and their actual operation. The organization and development of political parties. The course serves as an introduction to world politics, and forms a basis for the study of correct principles of political organization. History 8 is prerequisite, unless by express permission of the instructor in charge. Political Science 2 is always required. First semester, Monday, Wednesday and Friday, 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, 7:30 A. M. Alternates with course 6. Not given in 1915-1916.

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, 7:30 A. M.


9. Government of European Cities. The growing importance of the subject of city government seems to warrant a careful study of the rise and development of the city, both in Europe and in the United States. This course gives a rapid survey of European cities, aiming to discover what problems have confronted them during the past century, and also the method of their solution. Lectures, recitations, and reports on assigned readings. Prerequisite, course 2. First semester, Monday, Tuesday and Thursday, 10:30 A. M. Not given in 1915-1916.

10. Government of American Cities. This is in some measure a continuation of course 9, but may be taken without it. The origin and development of American cities; proper relations of state and city; proper methods of state supervision; municipal
ownership of public utilities; the rise of the commission form of government, etc. Continual reference to European practice and experience makes it important that this course should be preceded by course 9. Course 2 is prerequisite. Second semester, Monday, Tuesday and Thursday, 10:30 A. M. Not given in 1915-1916.

12. International Trade. A study of the principles of trade between nations, involving such questions as free trade and protection, the settlement of balances between countries, effects of the movement of specie, etc. Prerequisite, course 5. Second semester, Monday, Tuesday and Thursday, 10:30 A. M.

15-16. Advanced Political Science. A course in advanced investigation, for a limited number of students. Open to Juniors and Seniors who have completed twenty credit hours in the department. Two to four credits.

GREEK.

PROFESSOR COLWELL.

(Office hours, 8:00 A. M. daily, except Friday.)

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 Peloponnesian War. Reading at sight from Lysias, Lucian, and the New Testament. Freshman year, first semester, four hours, Friday excepted, 8:30 A. M.

2. (a) Thucydides. Continuation of course 1. (b) Homer. Selections from the Iliad, with sight reading from the Odyssey. Freshman year, second semester, four hours, Friday excepted, 8:30 A. M.

3. (a) Demosthenes. Selected orations, usually the Philippics and Olynthiacs. (b) Herodotus. Selections. Sight reading from Demosthenes, Herodotus, Diodorus Siculus, Xenophon, and the New Testament. Sophomore year, first semester, four hours, Monday excepted, 9:30 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, Monday excepted, 9:30 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, Monday excepted, 10:30 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, 2:30 P.M.

For students entering without preparatory Greek:

A-B. *Elements of Greek Grammar and Anabasis*. Both semesters, daily recitations, with four hours college credit each semester.

C-D. *Preparatory Greek Completed*. Both semesters, daily recitations, with four hours college credit each semester.

These courses are designed especially for students who wish to study Greek but have been unable to secure the elementary work in their preparatory schools. Students taking courses A to D during the Freshman and Sophomore years may complete the entire requirement of the Classical course by continuing the study of Greek through the Junior and Senior years.

**LATIN.**

PROFESSOR W. H. JOHNSON.

(Office hours, Monday 8:30 to 10:30; other days, 2:30.)

ASSISTANT PROFESSOR PENCE.

Of the following courses, numbers 1-4 are required for the degree of Bachelor of Arts and of applicants for the degree of
Bachelor of Philosophy who elect the Latin group (group C1). All courses in the department are open as electives to any student who, in the judgment of the instructor, has had sufficient Latin to pursue the work with profit, but courses 1-2 must precede any of the more advanced work except courses 11-12, on Roman Life, which are open to all college students.


2. *Odes and Epodes of Horace.* Sight reading from the Satires, and notes on Roman Poetry. Second semester, sections, days and hours as in course 1.

3. *The Roman Stage.* Two plays of Plautus and one of Terence. Notes on the history of the Ancient Drama. First semester, four hours per week, Monday excepted, 10:30 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. Second semester, days and hours as in course 3.


6. The *Annals of Tacitus,* or *Letters of Cicero and Pliny.* The emphasis is placed on the social and political conditions and problems suggested by the text, rather than on the language. Second semester, Tuesday, Thursday and Friday, 1:30 P. M. Alternates with course 8. Given in 1915-1916.

7-8. *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. Especially advised for stu-
students who expect to become teachers of Latin in High Schools or Academies. Open to Juniors and Seniors who have had not less than three semesters work in this department. Both semesters, Tuesday, Thursday and Friday, 1:30 p. m. These courses alternate with 5-6 and are not given in 1915-1916.

9-10. Latin Writing. A course in composition, open to students who have had Freshman Latin, and especially advised for those who are preparing to teach Latin. The two semesters are not open to election separately. Both semesters, Monday and Wednesday, 1:30 p. m. These courses alternate with 11-12, and are not given in 1915-1916.

11-12. Roman Life. An outline of the more important phases of Roman character and achievement. The text-book will be supplemented by notes and assigned reading, with photographs and lantern illustrations for certain portions of the work. Ability to read Latin is not prerequisite. Both semesters, Monday and Wednesday, 1:30 p. m. These courses alternate with 9-10 and are given in 1915-1916.

RHETORIC AND ENGLISH LITERATURE.
PROFESSOR WILLIAMS.

(Office hours, Tuesday and Thursday, 10:30 A. M.)

PROFESSOR JUDSON.

ASSISTANT PROFESSOR PENCE.

Throughout the course, the study of Rhetoric is pursued in combination with the study of literature. 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 written from Caedmon to the present time. A number of electives are offered during the Junior and Senior years.

The following courses are given:

1-2. Freshman English. Recitations, themes, conferences, and the study of modern prose writers. Both semesters, four
sections, I. Monday, Wednesday and Friday, 8:30 A. M.; II. Monday, Tuesday, and Thursday 9:30 A. M.; III and IV, Tuesday, Thursday, and Friday, 2:30 P. M.

3-4. English Literature. Long's text-book is used, supplemented by selected readings and notes on special topics. The first semester covers the subject from the beginning to the eighteenth century; the second semester, to the close of the Victorian period. Prerequisite, courses 1 and 2. Both semesters, three sections, Monday, Wednesday and Friday at 8:30, Monday, Tuesday and Thursday at 9:30, and Tuesday, Thursday and Friday at 2:30.

5a-6. Shakespeare. Three plays are carefully studied each semester and other plays assigned for reading. Prerequisite, courses 1 and 2. Course 5a must precede 6. Both semesters, Tuesday and Thursday, 7:30 A. M.

8. History of the English Novel. Open to Juniors and Seniors who have had courses 1-4. Three lecture-recitation periods per week with assigned reading. Five hours credit. Second semester. Monday, Tuesday and Thursday, 10:30 A. M.

9. A Study of Prose Fiction. A text-book is used, supplemented by selected readings. Prerequisite, courses 1 and 2. First semester, Wednesday and Friday, 10:30 A. M.


11a-12. Anglo-Saxon. Bright's Anglo-Saxon Reader, with special study of the phonology of the language in its historical relations to German and English, occupies the first semester. Anglo-Saxon poetry, including Beowulf, is taken during the second semester. Both semesters, Tuesday, Thursday, and Friday, 2:30 P. M.

13. Poetics. Text-book, with selections for study. Prerequisite, courses 1-4. First semester, Wednesday and Friday, 9:30 A. M.

14. Later English Drama. Five plays are studied. Prerequisite, courses 1, 2, and 5a. Second semester, Wednesday and Friday, 9:30 A. M.
15. *Technique of the Short Story.* Critical analysis of the best modern writers and original work. Prerequisite, courses 1-2. First semester, Monday and Wednesday, 2:30 p. m.

16a. *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, Tuesday and Thursday, 8:30 A. M.

17a. *Advanced Theme-writing.* A course dealing especially with Exposition. Special attention is given to criticism of original themes. Prerequisite, courses 1-4. Second semester, two recitations per week, hours to be arranged.

**ROMANCE LANGUAGES.**

**PROFESSOR MCKIBBEN.**

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

**ASSISTANT PROFESSOR ODEBRECHT.**

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.

**French.** Of the courses enumerated, numbers 1-2 are required of applicants for the degree of Bachelor of Science, numbers 1-2 and at least two four-hour courses in addition of applicants for the degree of Bachelor of Philosophy who choose French as their major language. The various courses are open as electives to students in all departments, with courses 1-2 prerequisite to any of the more advanced work. At the option of the student a year of Spanish will be accepted as the equivalent of a year of French in meeting the requirements noted above.

1-2. *Beginners' Course.* First semester, forms, translation, written exercises and grammar, with about 80 pages of simple reading. In the second semester this work is continued, with written and oral work in composition, and translation from prose and verse. Two sections, four hours, Friday excepted, 8:30 A. M. and 1:30 P. M.
3-4. *Nineteenth Century Prose and Poetry.* Review of grammar, with composition and dictation. Both semesters, four hours, Friday excepted, 2:30 p.m.

5-6. *The Classical Authors.* Reading of plays, with class reports on outside reading. Prerequisite, courses 1-4. Both semesters, Monday, Wednesday and Friday, 7:30 A.M.

7-8. French Prose Composition, or French Literature, with reading of representative modern authors. Prerequisite, courses 1-4. Both semesters, Wednesday and Friday, 9:30 A.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. Prerequisite, courses 1-4. Maximum credit, two hours, time to be arranged.

**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, four hours, Monday excepted, 10:30 A.M.

3. *Modern Italian Prose and Poetry.* First semester, four hours, Monday excepted, 10:30 A.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, Friday excepted, 7:30 A.M.

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

The courses in Spanish and Italian, while intended for upper classmen, may be taken by any who, in the judgment of the instructor, can carry them with profit.
GERMAN LANGUAGE AND LITERATURE.
PROFESSOR CHAMBERLIN.
(Office hours, Tuesday and Thursday, 3:30 p. m.)

Professor Biefeld.

German is treated as a living language, according to such methods as will develop a feeling for its native qualities and an appreciation of its literature. The study of the language is vivified by frequent references to the best features of German life and thought. The Library is well supplied with reference works and the choicest works of literature in this department, including the Kuerschner collection, a complete file of the Publications of the Modern Language Association of America and various German scientific and literary periodicals. Two courses in Anglo-Saxon are given by the German department in connection with the department of English.

1-2. Beginners' Courses. Essentials of German grammar; practice of pronunciation by phonetic and natural methods; oral and written reproduction of simple English expressions. About 150 pages of reading, including some of the best known songs and lyrics. Students presenting one unit of entrance credit in German will usually omit course 1 and enter course 2. Both semesters, four hours, Friday excepted, two sections, 7:30 a.m. and 1:30 p.m.

3. Short Stories. The course is based on such authors as Storm, Rosegger and Baumbach, accompanied by daily practice of the essentials of grammar, with oral and written reproduction in German. Prerequisite, courses 1-2, or two units of entrance credit in German. First semester, four hours, 8:30 a.m., Friday excepted, and 10:30 a.m., Monday excepted.

4. Schiller's Dramas and Ballads. Two of the poet's favorite dramas, usually Wilhelm Tell and Die Jungfrau von Orleans, and some of his ballads will be read and interpreted. Lectures and readings on the general principles of the drama, with analysis and reviews of important acts and scenes. Prerequisite, courses 1-3. Second semester, sections and hours as in course 3.
5. **Modern Fiction.** Rapid reading of two or three modern novels, with special attention to the common phrases and idioms. Translation is largely supplanted by oral and written reproduction of the features of the stories. Frequent exercises in writing German. Open to students who present not less than three entrance credits in German, or three semesters of college credit. First semester, Monday, Wednesday and Friday, 7:30 a.m.

6. **Historical and Descriptive Literature.** Works of standard authors bearing on the history and conditions of Germany are chosen for this course. May be taken by special arrangement after course 4, but regularly follows course 5. Second semester, Monday, Wednesday and Friday, 7:30 a.m.

7. **Lessing and Schiller.** Interpretations of Lessing's dramatic and critical works, with relation to the literary conditions in Germany in the eighteenth century. Schiller's life and his drama *Wallenstein* will be taken up during the last part of the semester. Supplementary readings, on which reviews and themes are prepared, are included in the work. This course usually follows course 5 or 6, but in exceptional cases may be taken after course 4. First semester, Monday, Wednesday and Friday, 8:30 a.m.

8. **Goethe.** A study of the poet's life as reflected in his characteristic writings of different periods. The course includes Faust, Part I and the essential portions of Part II. Collateral readings as in course 7. Usually preceded by course 7, but may be taken separately by qualified students. Second semester, Monday, Wednesday and Friday, 8:30 a.m.

9. **German Literature to 1750.** Main tendencies of German literature from the earliest times to Lessing, with relation to the cultural history of Europe. A standard history of German literature will serve as the outline of the course, supplemented by lectures and reading in both English and German. Open to advanced students with a fair knowledge of German. First semester, Tuesday, Thursday and Friday, 1:30 p.m.

10. **German Literature of the Nineteenth Century.** The great literary movements of Germany in the last century, viewed
as parts of the broader currents affecting all European literatures. The Romantic and Realistic schools, the rise of fiction and recent developments will be considered with reference to representative writers. Lectures and readings, with special topics assigned for investigation. Open to advanced students with a fair knowledge of German. Second semester, Tuesday, Thursday and Friday, 1:30 P. M.

12. Readings in Scientific Literature. Rapid reading, to gain familiarity with the style of German scientific works. Prerequisite, courses 1-4. An elective course, not given unless at least six register for it. Second semester, three credits, hours to be arranged.

PHYSICS.

PROFESSOR COONS.

(Office hours, 9:30 A. M.)

MR. HENDERSON.

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 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.

1. General Physics. Lecture demonstrations and recitations covering the more important principles of Mechanics, Sound
and Heat. Required of candidates for the B.S. degree, elective for all others. Mathematics 1 should accompany or precede this course. First semester, three hours, Monday, Wednesday, Friday, 7:30 A.M.

2. General Physics. A continuation of Physics 1. Electricity, Magnetism and Light. Required of candidates for the B.S. degree, elective for all others. Prerequisite, Physics 1. Mathematics 2 should accompany or precede this course. Second semester, Monday, Wednesday and Friday, 7:30 A.M.

3. Laboratory Physics. The essentials of Mechanics, Molecular Physics and Heat. Prerequisite, Physics 1-2, Mathematics 1 and 2. Fee $2.00. First semester, four hours, Monday excepted, 9:30-11:30 A.M., or Friday excepted, 1:30-3:30 P.M.

4. Laboratory Physics. The more fundamental experiments in Sound, Light, Magnetism and Electricity. Prerequisite, Physics 1-2, Mathematics 1-2. Fee, $2.00. Second semester, sections, days and hours as in course 3.

5. Experimental Physics. An advanced course in Electrical Measurements. Prerequisite, Physics 1-4, and the Calculus. Fee, $2.00. First semester, Tuesday, Thursday and Friday, 1:30-3:30 P.M.

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

7. Theoretical Physics. A lecture course presenting the Kinetic Theory and elementary Thermodynamics. Prerequisite, Physics 1-4, and the Calculus. First semester, Monday, Wednesday, Friday, 8:30 A.M.

8. Theoretical Physics. A lecture course in Physical Optics, covering selected topics in Diffraction and Interference. Prerequisite, courses 1-4 and the Calculus. Second semester, Monday, Wednesday and Friday, 8:30 A.M.

9-10. Elements of Electrical Engineering. A lecture and laboratory course presenting the general theory of direct and
alternating current circuits, and their application to direct and alternating current machinery. Prerequisite, courses 1-4, and the Calculus. Fee, $2.00. Both semesters, four hours. Lectures Wednesday and Friday, 10:30; laboratory, four hours, to be arranged.

12. History of Physics. A lecture and library course treating the development of Physics from an historical viewpoint. Prerequisite, courses 1-3. Second semester, Monday and Wednesday, 2:30 P.M.

15-16. Thesis in Physics. Elective for Seniors 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. Both semesters, two to five hours.

17. Physical Basis of Music. Lecture demonstrations presenting the fundamental principles of Physics in their relation to the theory of music. Required of candidates for diploma in the Conservatory of Music; elective to all others. First semester, Monday and Wednesday, 2:30 P.M.

CHEMISTRY.

PROFESSOR BRUMBACK.

(Office hours, 10:30 every day)

MISS SEFTON.

1-2. 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. Prerequisite, preparatory Physics. Fee, $4.00. Four hours, both semesters, Tuesday and Thursday, 9:30 A.M.; Wednesday and Friday, 9:30-11:30.

1a-2a. Household Chemistry. A course in elementary Chemistry. Open to women only. Offered as an alternative with Chemistry 1-2 to women who do not present Chemistry for entrance. Fee, $4.00. Four credits, both semesters. Tuesday and Thursday, 9:30-11:30; Wednesday and Friday, 9:30.
3-4. Qualitative Analysis. Required of scientific students who present Chemistry for entrance and who do not elect 1-2 instead. Recommended to all who have had one year of Chemistry. Prerequisite, one year of Chemistry and Physics. Two laboratory periods per week throughout the year. Fee. $4.00. Both semesters, Tuesday and Thursday, 7:30-9:30.

5-6, 5a-6a. Quantitative Analysis and Chemical Arithmetic. The two courses must be taken together. Prerequisite, Chemistry 1-2 or 3-4. Both semesters, 5a-6a, Monday, 1:30; 5-6, Tuesday, Thursday and Friday, 1:30-3:30 p.m.

9-10. Organic Chemistry. Prerequisite, Chemistry 1-2, or 1a-2a, or 3-4. Fee, $4.00. Two recitations and two laboratory periods per week throughout the year. Tuesday and Thursday, 1:30 p.m.; Monday and Wednesday, 1:30-3:30 p.m.

11-12. Inorganic Preparations. Students may register for either semester or both. Two to five credits. Prerequisite, one year of Chemistry. Primarily for Juniors and Seniors. Fee, $4.00. Monday, Wednesday and Friday, 7:30-9:30 a.m.

13-14. Advanced Quantitative Analysis. (a) Ore Analysis, (b) Water Analysis, (c) Fire Assay, (d) Mineral Analysis, (e) Gas Analysis, (f) Paint Analysis, (g) Fertilizer Analysis. Students may register for either semester or both. Two to five credits. Prerequisite, courses 5-6 and 5a-6a. Fee, $4.00. Tuesday and Thursday, 7:30-9:30.

15-16. Chemical Journals. The object is to review and discuss current Chemical literature. Students may register for either semester or both. Enrollment limited to twelve juniors and seniors of the Chemistry Group. One credit each semester, Friday, 8:30 a.m.

CIVIL ENGINEERING.

PROFESSOR T. S. 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 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. Fee, $1.00. Both semesters, Tuesday and Thursday, 7:30-9:30 A. M. 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. Fee, $1.00. First semester, four hours, Monday excepted, 9:30-11:30 A. M.


5. Railroad Surveying and Earth-work. Problems attending the location and construction of railways. Transition curves, computation of earth-work, plating, profiles and construction of maps. This course will alternate with course 11. Prerequisite, course 4. Fee, $2.00. First semester, four hours, Friday excepted, 7:30-9:30 A. M.

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, esti-
mate of haul and cost of line. A map is also made of a railroad station grounds, showing industries, etc. Prerequisite, course 5. Second semester, Monday, Tuesday and Thursday, 9:30 A.M.

7. *Applied Mechanics*. The principles of Mechanics, with reference to their application to Engineering. Statics, center of gravity, moment of inertia, and Kinetics. An application of Mathematics to Engineering. Prerequisite, Mathematics 4 or 4a and Physics 1. First semester, four hours, Friday excepted, 1:30 P.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. Fee, $1.00. First semester, four credits, Monday and Wednesday, 2:30 P.M., with laboratory periods to be assigned.

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. Fee, $2.00. First semester, four hours, Friday excepted, 7:30-9:30 A.M.
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. Fee, $2.00. Tuesday and Thursday, 7:30-9:30 A. M.

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, Tuesday and Thursday, 2:30 P. 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.

15. **Public Water Supplies.** Quantity of water supply for cities and towns. Yield from drainage basins. Stream and ground water flow. Works for collection, purification and distribution of water. Prerequisite, Chemistry 1-2 or 3-4, Civil Engineering 4. First semester, Monday, Wednesday and Friday, 8:30 A. M.

16. **Sewerage Systems and Sewage Disposal.** A continuation of course 15 in Sanitary Engineering. Studies in the collection and disposal of public wastes and methods of improvement and conservation of public health. Second semester, prerequisites and hours as in course 15, which must precede this course.

**DEPARTMENT OF GEOLOGY.**

**PROFESSOR CARNEY.**

(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 21-22; the course in Geographic Influences is also of cultural value.

GEOLOGY.

21-22. **General Geology.** Two lectures per week, with three all day field trips and five laboratory periods each semester. Three credits, or without the field and laboratory work, two credits. Fee, $1.00. Lectures, Wednesday and Friday, 10:30 A. M.

23. **Economic Geology.** A text book course using Ries's "Economic Geology of the United States." Prerequisite Engineering 1, Physics 1-3, Chemistry 1-2 or 3-4, Geology 21-22. First semester, two credits. Wednesday and Friday, 9:30 A. M.

24. **Crystallography and Mineralogy.** Prerequisite, Physics 1-4, Chemistry 3-6, Engineering 1, Geology 21-22. Second semester, Monday, Wednesday and Friday, 7:30-9:30 A. M.

25-26. **Geological Literature.** Open only to Juniors and Seniors. Prerequisite, Geology 21-22, and ability to read either French or German. Reports and discussions of assigned readings. Both semesters, two credits. Monday and Wednesday, 1:30 P. M.

27-28. **Investigation.** Open to Seniors. Prerequisite, Geology 21, 22, 25, 26. Both semesters, hours to be arranged. Two to five credits.
GEOGRAPHY.

1. Physiography. Lectures and assigned readings. A study of land forms, and the processes by which they are altered; the oceans, atmosphere, earthquakes, volcanoes, and glaciers are treated quite fully. First semester, two credits. Tuesday and Thursday, 8:30 A. M.

2. Geographic Influences. Lectures supplemented by library assignments, considering several types of geographic influences, as observed 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, and the influence of topographic and climatic environment on mental and moral qualities. Three credits, second semester, Monday, Tuesday and Thursday, 10:30 A. M.

3. Geographic Influences. A repetition of course 2, first semester. Monday, Tuesday and Thursday, 10:30 A. M.

4. Geography of North America. Lectures and collateral readings concerning the influence which the relief features, climate, and natural resources of the continent have had on its history, the development and shifting of particular industries, certain phases of conservation, the distribution of population, and inland water ways from the viewpoint of regional geography. Prerequisite, Geography 2 or 3. Three credits, second semester, Tuesday, Thursday and Friday, 1:30 p. M.

5. Geography of Europe. Lectures and library assignments following the line of treatment outlined for North America in course 4. Prerequisite, Geography 2 or 3. First semester, three credits, Tuesday, Thursday and Friday, 1:30 p. M.

6. Geography of South America. Lectures and library assignments following the method of work outlined in course 4, the Geography of North America. Prerequisite, Geography 2 or 3. Two credits, second semester, Tuesday and Thursday, 8:30 A. M.

7-8. Geographical Literature. Open only to Juniors and Seniors. Prerequisite, Geography 2 or 3, 4, 5 or 6, and ability
to read French or German. Reports and discussions of assigned readings. Both semesters, two credits. Monday and Wednesday, 2:30 p. m., or Tuesday and Thursday, 7:30 a. m.

9-10. Investigation. Open only to Seniors. Prerequisite, Geography 1 or its equivalent, 2 or 3, 4, 5 or 6, 7 or 8. Both semesters, hours to be arranged. Two to five credits.

**ASTRONOMY.**

**PROFESSOR BIEFELD.**

(Office hours, Tuesday and Thursday, 1:30 P. M.)

Of the following courses, 1 and 2 are elementary, introducing the student to the subject and method of study. Course 3 is intended to be cultural, presenting a general survey of the subject in a simple way, and yet with scientific accuracy. Courses 4 and 6 bring the student in contact with the practical applications of the subject, solving the fundamental problems with the rigor that mathematics and modern instruments make possible. Courses 7 and 8 give opportunity for work of high grade and lasting value to Astronomy, along the line of micrometric and photometric work, while 9 and 10 lead into the application of Mathematics to Astronomy, making use of the best that has been brought out in the English, German and French languages, on Celestial Mechanics.

1. **Constellation Study.** (a) Identification of the principal constellations, planets, star clusters and nebulae, aided by opera glasses and the equatorial, eight evenings during the semester. (b) Talks on the celestial sphere and the solar system, eight evenings during the semester. (c) Exercises on the use of the celestial globe, ephemerides, and star maps. Study of the apparent motions of the sun, moon and planets, by means of graphs and corresponding observations in the sky. Elective for all students. Fee, $1.00. First semester, two credits. One hour on Tuesday at 8 P. M. for lectures, or constellation study at the Observatory on clear nights. One laboratory period, two sections, Monday or Wednesday, 1:30-3:30 P. M.
2. Constellation Study. A continuation of course 1, in which opportunity is given to a limited number of students to study some of the constellations more in detail, with telescopic aid. Eight lectures are given on the History of Astronomy, from ancient times through the time of Newton. A study of the moon and one of the planets in the sky, by drawings on outline maps. Observation of variable stars, with naked eye, by grades. Elementary exercises with the astronomical clocks, the transit and the equatorial. Elective for all students. Fee, $1.00. Credits and hours as in course 1, above.

3. Descriptive Astronomy. This course will be given in lectures based on non-mathematical text. The text being followed quite closely, will avoid the taking of notes and at the same time giving the student a chance to pay close attention and subsequently study with greater profit, errors and misstatements creeping into the notes being avoided. A ten minute quiz precedes the lecture each day, so that the ground may be thoroughly covered.

The lectures will be accompanied by demonstrations with the instruments of the Observatory. The usual topics will be taken up, as found in standard text books on Descriptive Astronomy.

The course may be taken by Sophomores, Juniors and Seniors, no special prerequisites. First semester, four hours, Monday excepted, 10:30 A. M.

Determination of right ascension and declination of stars differentially. Determination of longitude of the Observatory in connection with wireless signals from Arlington. 5. The Equatorial. Adjustments. Determination of the apparent place of a heavenly body, directly, by means of hour and declination circles, or differentially, by means of position micrometer, Double star work. Determination of position angle and distance with position micrometer. Fee, $2.00. Second semester, four hours, Monday excepted, 10:30 A.M.

6. Method of Least Squares. Second semester, two hours, time to be arranged.


9-10. Theoretical Astronomy and Celestial Mechanics. Selected chapters from English, German and French works on celestial mechanics and its application to the determination of orbits of comets. Prerequisite, Astronomy 3, 4 and 6, Calculus, and Differential Equations. Both semesters, three credit hours, time to be arranged.

ZOOLOGY.

ASSISTANT PROFESSOR ORCUTT.

(Office hours, Wednesday, 10:30-11:20; Friday, 9:30-10:20.)

The work in this department is planned to meet not only the needs of the student desiring general information but also the needs of those going into advanced work in Zoology. For the more advanced courses a reading knowledge of French and German is very useful. Courses 1-2, 9-10, 12 and 15 (or 16) are of general interest and adapted to the needs of all students. Course 15 or 16, Personal Hygiene, is recommended to all students as of special value and importance.
1-2. General Biology. Identical with Botany 1-2. The fundamental laws of Biology. The organization of matter into organisms; the coordination of structure and function. The illustrative material is drawn equally from the animal and plant kingdoms. Open to general election. Fee, $2.50. Both semesters, three credits, Thursday, 1:30 p. m.; Tuesday and Friday, 1:30-3:30, or 3:30-5:30 p. m.


5-6. General Histology. The microscopic study of tissues from man and allied forms; their formation into organs, and the function of those organs. Prerequisite, Zoology 4. Offered in alternate years, given in 1915-1916. Fee, $3.00. Both semesters, four credits, Friday excepted, 7:30 A. M., and Tuesday and Thursday at 8:30.

7-8. General Embryology. A study of the development of organisms from the egg to the adult, followed by a study of the development of separate organs. Laboratory work upon the embryos of the frog, chick, and pig, with assigned reading. Prerequisite, Zoology 4. Offered in alternate years; not given in 1915-1916. Fee, $3.00. Both semesters, four credits, hours same as in 5-6.

9. Animal Ecology. The conditions of animal life where found; relations of the organism to its environment. Collections are made of associations, and the camera is used as an aid to the taking of notes. Saturday trips take the place of some of the regular laboratory periods. Prerequisite, Zoology 3. Offered in alternate years; not given in 1915-1916. Fee, $2.00. First
semester, three credits, Wednesday, 8:30 A. M., Monday and Friday, 7:30-9:30 A. M.

10. **Human Physiology.** A course dealing with the main features of human physiology. Text, lectures, slides, and discussions. Prerequisite, Zoology 4. Offered in alternate years; not given in 1915-1916. Fee, $2.00. Second semester, three credits, Monday, Wednesday and Friday, 8:30 A. M.

11. **Mammalian Anatomy.** A laboratory course designed for the pre-medical student. The careful working out by the individual of the anatomy of a typical mammal, such as the cat or dog. Prerequisite, Zoology 4. Offered in alternate years; given in 1915-1916. Fee, $3.00. First semester, three credits, Wednesday, 8:30 A. M., Monday and Friday, 7:30-9:30 A. M.

12. **Ornithology.** The natural history, classification and behavior of birds. Field trips will take the place of most of the regular laboratory time. Prerequisite, Zoology 1-2. Offered in alternate years; given in 1915-1916. Fee, $2.00. Second semester, three credits, Wednesday, 8:30 A. M., Monday and Friday, 7:30-9:30.

13-14. **Advanced Zoology.** A course on assigned problems, designed as an introduction to research. For graduate students and open to undergraduate election only in special cases. Hours arranged individually. Fee, $3.00, two to five credits.

15. **Personal Hygiene and Eugenics.** A lecture course covering the important problems of general hygiene and questions of eugenics, dealing toward the close of the semester with problems of sex and society. For women. Prerequisite, Zoology 1-2, or by special permission. First semester, three credits, Monday, Tuesday and Thursday at 10:30 A. M.

16. **Personal Hygiene and Eugenics.** A course for men, parallel to course 15. No prerequisite. Second semester, three credits, Monday, Tuesday and Thursday at 10:30 A. M.
The work in 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 and more particularly to emphasize, through systematic training in observation and deduction, the broader and purely cultural side of the subject. Courses 1, 2, 7, 8, 9, 10, 11, and 12, are particularly designed for students interested in the cultural side of science. Courses 1-4, 7, 8, have a special bearing upon pre-medical work; students interested in agriculture will find 1, 2, 7, 8, 9, and 10 helpful, while 1, 2, 7, 8, and 9 should be taken by domestic science students. The following courses are offered by the department:

1-2. General Biology. Given jointly by the departments of Botany and Zoology, and identical with Zoology 1 and 2. A study of life, and of the characteristics, properties and activities of living things, including the evolution of structure and function and the relation of organisms to each other and to their environment. Three credits. Open to general election. Required for admission to all advanced courses in Botany except where so specified. Fee, $2.50 for each semester. Both semesters, three credits, Thursday, 1:30 p. m.; Tuesday and Friday, 1:30-3:30, or 3:30-5:30 p. m.

3-4. Plant Morphology. 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, from the standpoint of biology and evolution. Prerequisite, Botany 1-2, or the equivalent. One all-day field trip and several shorter excursions are required each semester. Fee, $3.00 per semester. Both semesters, four credits, Tuesday and Thursday, 10:30 A. M.; Wednesday and Friday, 9:30-11:30 A. M.
5-6. **Histology and Physiology of Phanerogams.** A study of cells, tissues and organs of the flowering plants, and the relation of these structures to irritability, movement, secretion, nutrition, growth and reproduction. Special attention is given to the technique of microscopic study during the first semester, and to experimental methods during the second. Prerequisite, courses 1-2, with 3-4 advised. Fee, $3.00 for each semester. Alternate years. Not offered in 1915-1916. Both semesters, three credits, Wednesday, 7:30 A. M.; Tuesday and Thursday, 7:30-9:30 A. M.

7-8. **Bacteriology.** A general treatment of the structure and activities of bacteria, with emphasis placed on their relation to human life and interest. Among the specific subjects treated are soil fertility, sewage disposal, milk problems, butter and cheese making, disease of plants and animals, and public health and sanitation. Lectures, laboratory and thesis work. Prerequisite, course 1 or its equivalent. Elementary Chemistry advised. Both semesters, three credits, Wednesday, 8:30 A. M., Monday and Friday, 7:30-9:30 A. M.

9. **Plant Pathology.** The more important diseases of useful plants, such as rusts, smuts, moulds, mildews, scabs and blights. Recognition of specific diseases through symptoms, the economic importance of the various diseases, and methods of control, are phases of the subject receiving attention. The value of various spraying mixtures for specific diseases, methods of application, and spraying calendars, are considered. The work of the state and national governments in plant disease is brought particularly to the attention of the student. Lectures, laboratory and thesis work. Prerequisite, course 1 or its equivalent. Fee, $1.00. First semester, two credits, Monday, 1:30-3:30 P. M., Wednesday, 1:30 P. M. Alternate years, not offered in 1915-1916.

10. **Forestry.** An introductory consideration of the character, culture, protection and uses of the forest, and of the more important problems confronting the practical forester. The value of trees is emphasized, and the identification of the native trees forms a part of the laboratory work. Lectures, laboratory and thesis work. Fee, $1.00. Open to general election, but courses
1-2 advised. Second semester, two credits, Monday, 1:30-3:30 p. m., Wednesday, 1:30. Alternate years, not offered in 1915-1916.

11. *Ecology.* A study of the struggle for existence among plants, as shown by their reactions and adaptations to the various factors of their environment,—water, light, soil, temperature, etc. The distribution of plants, and their natural grouping in societies is considered, and special attention is given to the life problems of the plant, and the solution of those problems by the plant, as revealed in external form and internal structure. Lectures, laboratory and field work. Fee, $2.00. Four all-day field trips and several short excursions take the place of a part of the laboratory work. Prerequisite, courses 1-2 or their equivalent. Offered in 1915-1916. First semester, three credits, Wednesday, 7:30 A. M., Tuesday and Thursday, 7:30-9:30 A. M.

12. *Systematic Botany.* The principles of classification, from historical and evolutionary standpoints, and the study of the classification of flowering plants. The identification of our native plants and the use of the herbarium. Methods of collecting, arranging and preserving receive special attention, and opportunity is given to each student to make the beginning of a private collection. Lectures, laboratory and thesis work. Four all-day field trips and several short excursions take the place of part of the laboratory work. Prerequisites, courses 1-2 or a satisfactory course in preparatory botany. Alternate years, offered in 1915-1916. Fee, $2.00. Second semester, three credits, Wednesday, 7:30 A. M., Tuesday and Thursday, 7:30-9:30 A. M.

17-18. *Botanical Literature.* Reports in class upon assigned readings. Either or both semesters may be taken. Ability to read French or German desirable. Open to Juniors and Seniors only. Prerequisite, a year’s work in the department. Two meetings each week, with two credits. Fee, $1.00. Hours arranged individually.

19-20. *Advanced Botany.* Special work on assigned problems leading to research in Botany. This course may be taken
only by competent students after two years work in the department. Two to five credits, hours arranged individually.

MUSIC.

MR. ESCHMAN.

(Office hours, Monday, Wednesday and Friday, 8:30 a.m.)

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 also has no prerequisite, and is identical with Physics 17. 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. Appreciation of Music. First semester, two credits, Monday and Wednesday, 2:30 p.m. Fee, $8.00.

2. Elementary Theory. Second semester, two credits, Monday and Wednesday, 2:30 p.m. Fee, $8.00.

3-6. History of Music. Both semesters, three credits, Tuesday, Thursday and Friday, 1:30 p.m. Fee, $12.00 each semester.

6-12. Harmony. Both semesters, three credits, Monday, Tuesday and Thursday, 10:30 a.m. Fee, $12.00 each semester.

9-10. Counterpoint. Both semesters, three credits, Monday, Tuesday and Thursday, 9:30 a.m. Fee, $12.00 each semester.

11-12. Musical Form. Both semesters, two credits, Wednesday and Friday, 9:30 a.m. Fee, $8.00 each semester.

13-14. Strict Composition. Both semesters, two credits, Monday and Wednesday, 1:30 p.m. Fee, $8.00 each semester.

15-16. Free Composition. Both semesters, two credits, Wednesday and Friday, 10:30 a.m. Fee, $8.00 each semester.

17. Physical Basis of Music. First semester, two credits, Monday and Wednesday, 2:30 p.m.
This department affords training in Expression, by finding and applying principles for developing the 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, three credits, two sections, Monday, Tuesday and Thursday, 10:30 A. M.; Tuesday, Thursday and Friday, 2:30 P. M.


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. Students appear in extempore speeches and readings. Both semesters, three credits, Tuesday, Thursday and Friday, 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, 2:30 P. 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 extem-
pore; how to prepare a speech; how to interest and hold an audience. Second semester, Monday and Wednesday, 2:30 p. 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, Monday and Wednesday, 1:30 p. m.

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, Wednesday and Friday, 10:30 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.

THE FINE ARTS.

The work in art indicated in the following paragraphs is subject to special tuition charges, given in detail on page 35, and is not credited towards a degree with the exception of the courses in Free-hand Drawing and Theory of Art, as stated below. With the exception of the work in China Painting, the instruction is given by Miss Sarah H. Seymour, who holds the Special Diploma in Fine Arts from Teachers' College, of Columbia University. The aim is to give the pupil an appreciation of the elements of proportion, line, color, etc., upon which either creative work or the teaching of art must be based.

1-2. Drawing and Painting. Expression by line and shading; values, perspective, technique of charcoal; painting in oil and water colors; figures, flowers, landscape, animals, cast drawing. Fee, $15.00.

3-4. Principles of Design. Studies in repetition, subordination, symmetry, proportion; line work in pattern, lettering and landscape; color in design; application to book covers, initials, posters, stenciled patterns, etc. Fee, $15.00.

5-6. Principles of Design. A more advanced study along the same lines as course 3, with application to wood block color printing, pictorial work, book plates, illustration, decoration, etc. Fee, $15.00.


9-10. Handicrafts. A course designed to prepare for grade teaching in metal work, book-binding, weaving, and pottery. Design is taught in connection with this work. Fee, $5.00.

13-14. Free-hand Drawing. A two-hour course through one semester, for which two credits will be allowed on the requirements for any of the degrees given by the University. The studio is open each morning for this work, so that hours may be arranged to suit other schedules. Open to Freshmen in all groups, and advisers are authorized to make this work obligatory in any group in which a knowledge of drawing is important. Fee, $5.00.

15-16. Metal Work and Jewelry. The making of trays, bowls, candle-sticks, etc., from copper and brass. Designing and making of buckles, pins, pendants, and chains. Setting of stones in gold and silver. Fee, $25.00, or 50 cents per hour.

17. Theory of Art. Lectures and studio work dealing with the principles of art and their historical relations. Primarily for students in art, but open as an elective to all college students, with two credits on the requirements for any degree. Fee, $8.00.

Painting on China. The work in China Painting is under the instruction of Miss Carrie M. Howland, who holds certificates for work in China decoration from instructors of high standing in Detroit, Chicago, New York and elsewhere. A class will be formed, if desired, in the history of Porcelain, from primitive times through its development in the various countries where it has received noteworthy attention, such as Egypt, China, Japan and England. The elements of design as applied to china decoration are taught, the method of firing, the use of enamels, raised paste, etching, lustre, etc., each in its proper sequence. No one style is insisted upon, but the conventional, semi-conventional and naturalistic all receive due attention. Fee, $25.00.

HOUSEHOLD ECONOMICS.

EUGENIA E. FINLEY.

Household Economics, 1-2. Food.—Two laboratory periods of two hours each and a one-hour lecture period per week.
Courses of Study

The unit of work is one hour of lecture or recitation work per week throughout a semester, and not less than 121 units are required to complete a course. In laboratory work a two-hour period counts as one unit. For aid in choosing electives, the student may consult the schedules of courses by hours, 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 of 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 to 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 for all groups leading to this degree are: Greek, courses 1-1; Latin, courses 1-4; Mathematics, courses 1-2; English, courses 1-4; six units of work in the department of Education and Philosophy; History, courses 1-2; eight units of science and eight units of modern language. In any of these groups Mathematics 1b-2b may be substituted for Mathematics 1-2 at the option of the student.

GROUP A1. ADVISER, PROFESSOR COLWELL.

Freshman Year.—English 1-2, Greek 1-2, Latin 1-2, Mathematics, 1-2. Election, two or three hours each semester.

Sophomore Year.—Greek 3-4, Latin 3-4, History 1-2; a modern language four hours each semester. Two or three hours' work may be elected in addition, with approval of adviser.

Junior Year.—English 3-4, a modern language four hours each semester; Greek or Latin, two, three or four hours each
semester; History or Science. Free election, three or four hours each semester.

**Senior Year.**—Six units of work in the department of Education and Philosophy; Logic, History or a language. Free election, eight or ten hours each semester.

**GROUP A2. ADVISER, PROFESSOR W. H. JOHNSON.**

**Freshman Year.**—English 1-2, Greek 1-2, Latin 1-2, Mathematics 1-2. Election, two or three hours.

**Sophomore Year.**—Greek 3-4, Latin 3-4; Physics or Mathematics 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.**—Six hours' work in the department of Education and philosophy; 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 W. H. JOHNSON.**

**Freshman Year.**—Latin, Greek, English and Mathematics, as in Group A2, described above. Election, two to three hours each semester.

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

**Junior Year.**—English 3-4; Science, four hours each semester; History or Political Science, three or four hours each semester. Election, four or five hours each semester.

**Senior Year.**—Six hours' work in the department of Education and Philosophy; Science or Modern Language, three to four hours each semester. Election, seven to ten hours each semester.
GROUP A4. ADVISERS, PROFESSOR GOODELL AND ASSISTANT PROFESSOR KULL.

In addition to the general requirements for the A. B. degree, the student in this group will be expected to complete at least thirty credit hours in History and Political Science. For those majoring in Political Science, History 8 and Political Science 2 must be included; for those majoring in History, History 1, 2, 7 and 8, and Political Science 2. The student in this group must also complete at least twelve credit hours of Science. For those majoring in Political Science, Professor Goodell will act as Adviser; for those in History, Assistant Professor Kull.

GROUP A5. ADVISER, PROFESSOR WILEY.

In addition to the common requirements for all groups leading to the degree of Bachelor of Arts, page 83, a student in this group must complete one course in Mathematics each semester of his four college years. Physics 7 and 8, Astronomy 6, 9 and 10, and Civil Engineering 7 and 8 may be interpreted as Mathematics in meeting this requirement. Before the close of the Junior year one of the three sequences of courses (1, 2, 3, 4, 5, or 1b, 2b, 3b, 4b, or 1, 2, 3, 3b, 4b) must be completed. The selection of the second sequence is urged. Zoology 15 or 16 is required. The student will elect, in conference with the adviser, other courses sufficient to make up the 124 units required for the degree.

GROUP A6. ADVISER, PROFESSOR WILLIAMS.

Freshman Year.—English 1-2, Latin 1-2, Greek 1-2, Mathematics 1-2. Two or three hours election each semester.

Sophomore Year.—English 9-10, Latin 3-4; Greek 3-4; a modern language. Election, two or three hours each semester.

Junior Year.—English 3-4, 5a-6, 11a; a modern language. Election, sufficient to make a total of sixteen hours each semester.

Senior Year.—English 13 and 15, six hours in the Department of Education and Philosophy. Election, sufficient to make sixteen hours each semester. The year each of History and Science required for the degree should one or both be completed by the end of the Junior year.
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 1-4; Mathematics, courses 1-2 or 1b-2b; Chemistry, courses 1-2 or 1a-2a for those who do not present Chemistry for entrance, courses 3-4 for those who do; Physics, courses 1-2; six credit hours in the department of Education and Philosophy. 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.

GROUP B1. BOTANY. ADVISER, PROFESSOR STICKNEY.

This group is sub-divided, as follows:

Sub-group I is intended as a general culture course, for students who wish to make Botany their major science. Elections may be made with special reference to teaching Botany, alone or with other sciences, or to biological survey, or state or government work in the Department of Agriculture.

Freshman Year.—Botany 1-2, Chemistry 1-2 or 1a-2a, English 1-2, Mathematics 1-2, German or French 1-2.

Sophomore Year.—Botany 3-4, Physics 1-2, French or German; Zoology 15 (women) or 16 (men). Elective, three hours one semester and six the other. History 1-2 advised. Botany 9-10 may be taken here to advantage.

Junior Year.—Botany 5-6 or 11-12, English 3-4, Zoology 3-4. Elective, seven or eight hours. Botany 7-8, Geography 2 or 4-5 or a modern language may be taken here.
Senior Year.—Geology 21-22, Education or Philosophy six credit hours, and three hours of Botany. Elective, five to six hours. Political Science 5 and 2 are suggested.

Sub-group II is arranged for those who are interested in the economic aspects of Botany, and prepares for advanced standing in schools of Agriculture or Forestry. The requirements here differ from those given in the above schedule in the following particulars: Botany 9-10 is substituted for 5-6, and Botany 7-8 is required. Also Civil Engineering 1 and 4 (may be taken in the Sophomore year, and Zoology 16 taken later) and Political Science (Senior year) are required. Animal Ecology (Zoology 9-10) is suggested, and may be taken in the Junior or Senior year.

GROUP B2. CHEMISTRY. ADVISER, PROFESSOR BRUMBACK.

Freshman Year.—English 1-2, Mathematics 1-2; Chemistry 1-2 or 1a-2a or 3-4; Zoology 15 (women) or 16 (men). A modern language, four 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.—Six credit hours in Philosophy or Education. Ten or thirteen hours each semester open to election.

In this group two years each of French and German are urged, also Mathematics 3-4, Geology 21-22 or Geography 2, and Zoology 1-2.

GROUP B3. ENGINEERING. ADVISER, PROFESSOR T. S. JOHNSON.

Freshman Year.—English 1-2, Mathematics 1-2, Civil Engineering 1 or 2 and 4, Chemistry 1-2 or 3-4, Physics 1-2.

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

Junior Year.—English 3-4, Geology 21-22, German or French four hours each semester, Civil Engineering 7 and 13 first semester, 8 the second.
Senior Year.—Six credit hours in Philosophy or Education, Civil Engineering 9 in the first semester, 10 in the second. Election, six hours each semester.

GROUP B4. GEOLOGY. ADVISER, PROFESSOR CARNEY.

Sub-group 1. Electives may be so arranged as to prepare for a teaching position in Geology and a modern language, or some other combination, or for work on the U. S. Geological Survey. The group comprises:

1. General Requirements, as in all B. S. groups, stated on page 86.
3. Elective. Courses sufficient in number to make the 124 units required for a degree.

Sub-group 2, arranged for those who wish to major in Geography:

Freshman Year.—Mathematics 1-2, English 1-2, Chemistry 1-2, Geography 1-2, and a modern language throughout the year.

Sophomore Year.—Physics 1-2, History 1-2, Political Science 12, Geography 4-5, and a modern language. Elective, first semester, three hours.

Junior Year.—English 3-4, Geography 6, 7-8. Elective, nine hours, each semester.

Senior Year.—Six hours in Philosophy, or Education; Geography 9-10. Elective, ten hours each semester.

The student is advised to include among his elections another year of Physics, General Biology, Latin 11-12 (Roman Life), and History 3-4.

GROUP B5. MATHEMATICS. ADVISER, PROFESSOR WILEY.

In addition to the common requirements for all groups leading to the degree of Bachelor of Science, stated on page 85, a student in this group must complete one course in Mathematics each semester of his four college years. Physics 7 and 8, Astronomy 6, 9 and 10, and Civil Engineering 7 and 8 may be construed
as Mathematics in meeting this requirement. Before the close of the Junior year one of the three sequences of courses (1, 2, 3, 4, 5, or 1b, 2b, 3b, 4b, or 1, 2, 3, 4b, 4b), must be completed. The second sequence is urged. Zoology 15 or 16 is required. The student will elect, in conference with the adviser, additional courses sufficient to make up the 124 units required for the degree.

GROUP B6. PHYSICS. ADVISER, PROFESSOR COONS.

Freshman Year.—English 1-2, Physics 1-2, Mathematics 1-2, or 1b-2b, Chemistry 1-2, or 3-4. 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.—Philosophy or Education, six credit hours, 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. ADVISER, ASSISTANT PROFESSOR ORCUTT.

In this group the courses are so arranged as to provide for the general student as well as for the person anticipating the study of medicine. In addition to the general requirements for the B. S. degree there are the following requirements for the group: Zoology 1-2, 3-4, 15 or 16; Botany 3-4, 7; 18 credits from Zoology 5-6, 7-8, 9-10, and 11-12.

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 require-
ments of all groups for the degree are: English, courses 1-4, Mathematics 1-2 or 1b-2b, and six credit hours in the department of Education and Philosophy.

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

GROUP C1. LATIN. ADVISER, PROFESSOR W. H. JOHNSON.

 Freshman Year.—English 1-2, Latin 1-2, Mathematics 1-2 or 1b-2b. Election, four to six hours each semester.

 Sophomore Year.—Latin 3-4, 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 or a Science; Latin, Logic or History. Free election, sufficient to make sixteen hours each semester.

 Senior Year.—Philosophy or Education, six credit hours; Latin, History or Political Science; a Romance Language. Free election, sufficient to make sixteen hours each semester.

GROUP C2. ROMANCE LANGUAGES. ADVISER, PROFESSOR M’KIBBEN.

 Freshman Year.—English 1-2, Mathematics 1-2, French, four hours. 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, 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.—Philosophy or Education, six credit hours; Italian 3, French two hours each semester. Election, sufficient to make sixteen hours each semester.
GROUP C3. GERMAN. ADVISER, PROFESSOR CHAMBERLIN.

Freshman Year.—German 1-2, English 1-2, Mathematics 1-2, 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 or Education, six credit hours; German 7 if not previously taken. Elective six to ten hours, with English 11a and 12 advised.

If credits in modern languages are offered for entrance a corresponding amount may be deducted from the college language 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, Latin 1-2, Mathematics 1-2. French or German. Election, two or three hours.

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

Junior Year.—English 3-4, 5a-6, and 11a; a Modern Language. Election, sufficient to make sixteen hours each semester.

Senior Year.—English 13 and 14; a Modern Language; Philosophy or Education, six credit hours. Election, sufficient to make sixteen hours each semester.

GROUP C5. HISTORY AND POLITICAL SCIENCE. ADVISERS, PROFESSOR GOODELL AND ASSISTANT PROFESSOR 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.

Students majoring in Political Science must take History 8 and Political Science 2. Those majoring in History must take
History 1-2, 7-8, and Political Science 2. Students in this group must also take at least twelve credit hours of Science. Professor Goodell will act as adviser to students majoring in Political Science; Assistant Professor Kull to those in History.

GROUP C6. MATHEMATICS. ADVISER, PROFESSOR WILEY.

In addition to the common requirements for all groups leading to the degree of Bachelor of Philosophy, page 89, the student in this group must complete one course in Mathematics each semester of his four college years. Physics 7 and 8, Astronomy 6, 9 and 10, and Civil Engineering 7 and 8 will be construed as Mathematics in meeting this requirement. Before the close of the Junior year, one of the three sequences of courses (1, 2, 3, 4, 5, or 1b, 2b, 3b, 4b, or 1, 2, 3, 3b, 4b) must be completed. The second sequence is urged. Zoology 15 or 16 is required. The student will elect, in conference with the adviser, additional courses sufficient to make up the 124 units required for the degree.

GROUP C7. THEORY OF MUSIC. ADVISER, MR. ESCHMAN.

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

Freshman Year.—Music 1-2.

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

Junior Year.—Music 9-10.

Senior Year.—Music 13-14.

Music 5-6, 11-12, 17; Zoology 15 or 16, 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 2, 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.
HISTORICAL STATEMENT.

For several years prior to 1900, under joint agreement of the authorities of the two colleges, 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.

As the Boards of Trustees, Officers of Instruction and Government, and the courses of instruction are now the same for Granville College and Shepardson College they are not here repeated. 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 40-89.

ROOMS AND BOARD.

Non-resident students board and room in the College. 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. Engagement of rooms in advance is understood to be for the year, unless otherwise stipulated.

Students must take not less than thirteen hours a week of college credit work in order to room in the dormitories.

Students who cannot be accommodated in the dormitories at the beginning of the fall term, live in the village in rooms recommended by the college authorities, and are under college regulations and supervision. Their names are entered upon a waiting list according to the date of their application, and they are expected to move into dormitory rooms as fast as vacancies occur. They have the privilege of boarding in the college dining-hall while they are on the waiting list.

Rooms engaged by students of the preceding year will not be held later than July 1, unless the retaining fee has been paid.

Freshmen are expected to vacate their rooms before Commencement week.

ADMISSION.

Shepardson College does not maintain 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 32-35.

DISCIPLINE.

Only such regulations are imposed as are necessary to maintain conditions of life favorable to the college work. It is the endeavor of the college to develop self-knowledge and self-control. The Student Government Association co-operates with the Dean in maintaining a government that is educational rather than restrictive.

EXPENSES.

All necessary information concerning expenses in Shepardson College will be found in detail on pages 123-127.
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 is required, but no restriction is placed upon the pupil's choice of a regular place of worship on Sundays. 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 BRADSTREET.

The physical training for young women is under the personal instruction of the physical director and consists of graded class work in gymnastics for two and one-half years. This work is required for graduation except for those who are excused from gymnastics by a physician. A special physical training class is offered for those who are intending to do advanced work in this line. Instruction in swimming, tennis, basket ball, and archery is free to all. A physical examination is given to 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.

Students not candidates for a degree are required to take gymnasium work unless specially excused by the Dean.

SCHOLARSHIPS.

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

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 duties.
Doane Academy

FACULTY.

H. Rhodes Hundley, A. M., Sc. D., Dean,
History, German.

Bunyan Spencer, A. M.,
Greek.

August Odebrecht, A. M.,
French.

Henry H. Tilbe, A. B., Ph. D.,
Latin.

Lily Bell Sefton, B. S.,
Chemistry.

Charles W. Henderson, B. S.,
Physics.

Ruth Orcutt, M. S.,
Physiology, Botany.

Francis F. Patrick, Ph. B.,
English.

Harold W. Emswiler,
Mathematics.

Bunyan Spencer, M. A., Registrar.
August Odebrecht, M. A., 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 Scien-
tific 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 entertainments; 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 refitted 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.

GIRLS IN THE ACADEMY.

Since the discontinuance of Shepardson Preparatory, girls have been admitted to Doane Academy; but the lack of dormitory facilities makes it impossible to receive any except those whose parents or guardians live near enough to enable them to come as "day students."

Courses of Study

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.

Outline of the Work

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 exten-
sive work in original exercises. One semester is given to Solid Geometry.

HISTORY.

A course in General History is offered in the first year. English History is given three hours a week throughout the second year, and Mediaeval and Modern History three hours a week throughout the Junior 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 Æneid 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 "Doublers" 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 debar 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 substi-
stituted 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 dismissal.

**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.

In most cases four years will be absolutely necessary to complete the work required for graduation, but exceptionally earnest, mature and capable students may in 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 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.

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<th>Class</th>
<th>Classical</th>
<th>Hours Per Week</th>
<th>Scientific</th>
<th>Hours Per Week</th>
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<td>English I (Review Grammar and Elementary Composition)</td>
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<td>Classical</td>
<td>Latin II (2d Latin Book) Caesar and prose composition</td>
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<td>Science I (Physiology 1st semester, and Botany 2d)</td>
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<td>Science I, or French I, or Ger. I</td>
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<td>English II</td>
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<td>5</td>
<td>History II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>English II (Rhetoric and Classics)</td>
<td>4</td>
<td>English II, or French I, or Ger. I</td>
<td>4</td>
<td>History III</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>History II (English)</td>
<td>4</td>
<td>English II</td>
<td>4</td>
<td>History III</td>
<td>5</td>
</tr>
<tr>
<td><strong>THIRD YEAR</strong></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Classical</td>
<td>Latin III (7 of Cicero's Orations and Prose Composition)</td>
<td>5</td>
<td>Latin III or French I or Ger. I</td>
<td>5</td>
<td>Two of Latin III or</td>
<td>5</td>
</tr>
<tr>
<td>Greek I (1st Book)</td>
<td>5</td>
<td>Science II (Physical Geography or Chemistry)</td>
<td>5</td>
<td>Latin II, or French or German or Science</td>
<td>5</td>
<td></td>
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<tr>
<td>Plane Geometry</td>
<td>5</td>
<td>English III (Rhetoric and Classics)</td>
<td>3</td>
<td>Latin II, or French or German or Science</td>
<td>5</td>
<td></td>
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<tr>
<td></td>
<td>or</td>
<td></td>
<td>History III, Med. and Mod.</td>
<td>3</td>
<td>History III, Med. and Mod.</td>
<td>3</td>
</tr>
<tr>
<td><strong>FOURTH YEAR</strong></td>
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<tr>
<td>Classical</td>
<td>Latin IV (Virgil and Prose Comp.)</td>
<td>5</td>
<td>Latin IV, or French I or II, or German I</td>
<td>5</td>
<td>Two of Latin IV, or French I</td>
<td>5</td>
</tr>
<tr>
<td>Greek II (Anabasis and Prose Composition)</td>
<td>5</td>
<td>Science II, (Physical Geography or Chemistry)</td>
<td>5</td>
<td>Latin II, or French I or II, or German I</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Chemistry or Physical Geography, or Physics, or Algebra II, 1st semester; and Solid Geometry</td>
<td>5</td>
<td>Algebra II, 1st semester, and Solid Geometry</td>
<td>8</td>
<td>Chem. or Phys. Geog., or Physics, or Algebra II, 1st Semester, and Solid Geometry</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>or Algebra II, 1st semester; and Solid Geometry</td>
<td>5</td>
<td>Physics</td>
<td>8</td>
<td>Algebra II, 1st Semester, and Solid Geometry</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry or Physical Geography, or Physics, or Algebra II, 1st semester; and Solid Geometry</td>
<td>5</td>
<td>Physics</td>
<td>8</td>
<td>English IV</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>English IV (Literature)</td>
<td>4</td>
<td>English IV</td>
<td>4</td>
<td>English IV</td>
<td>4</td>
</tr>
</tbody>
</table>
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 101, 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 per cent 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.

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 fur-
nished by the Dean at any time upon the request of the parent
or guardian.

*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 impor-
tant stimulus to excellence in scholarship, as well as an appro-
priate reward for such excellence.

Through the generosity of an alumnus of Denison, 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, basketball, and baseball are held with the more important high schools in this section of the State.
Graduation Appointments

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.

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.

VOLUNTARY SOCIETIES.

There are three literary societies connected with the Academy and conducted by the students,—the Ciceronian and the Irving for young men, the Adelphian for young women. Each society has its own hall, which is neatly and tastefully furnished, and in which it holds its 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 con-
Any further information may be obtained by communicating with the Dean of the Academy.

**EXPENSES.**

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

<table>
<thead>
<tr>
<th>Expense</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition, $22.50 each semester</td>
<td>$45.00</td>
</tr>
<tr>
<td>Room rent, including furnishing, lighting, heating and care, $17.50 to $25.00, according to location</td>
<td>$35.00 to 50.00</td>
</tr>
<tr>
<td>Incidentals, including Gymnasium, Athletic, and Library fees, $22.50 each semester</td>
<td>45.00</td>
</tr>
<tr>
<td>Books</td>
<td>12.00</td>
</tr>
<tr>
<td>Board, 39 weeks</td>
<td>90.00</td>
</tr>
<tr>
<td>Washing</td>
<td>12.00</td>
</tr>
<tr>
<td>Incidentals</td>
<td>10.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$249.00 to $264.00</strong></td>
</tr>
</tbody>
</table>

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, $1.00 after the second day.

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.

Rooms in the village are to be had at prices ranging from 50 cents per week up. The really necessary expenses, exclusive of clothes and traveling, are about $250 per year.

**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.
DENISON UNIVERSITY

HONORS AND PRIZES FOR 1914.

Class Honors.

BOYS.

First Honor—Gordon Stifler Seagrave.
Second Honor—Alfred Janney Johnson.

GIRLS.

First Honor—Viola M. Johnson.

Alpha Delta Tau Scholarship Badge—Gordon Stifler Seagrave.

Kappa Zeta Scholarship Key—Viola M. Johnson.

Alpha Delta Tau Membership:


Kappa Zeta Membership—Viola M. Johnson.

Competitive Oration—John Martin.

Sherwin Prizes, based on qualities of leadership:

First Prize—John Martin.
Second Prize—Gordon Seagrave.

Cicero—Irving Contest:

Debate—Harold L. Phillips.
Oration—John Martin.
Essay—Forrest Ashbrook.
Declamation—Herman G. Spencer.
<table>
<thead>
<tr>
<th>Schedule of Recitations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR.</strong></td>
</tr>
<tr>
<td>7:30-8:30</td>
</tr>
<tr>
<td>Latin I. 5</td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td>History II</td>
</tr>
<tr>
<td>1st sem.</td>
</tr>
<tr>
<td><strong>THIRD YEAR</strong></td>
</tr>
<tr>
<td>Classical</td>
</tr>
<tr>
<td>(Hist. III. 3)</td>
</tr>
<tr>
<td><strong>Scientific</strong></td>
</tr>
<tr>
<td>Geometry 5</td>
</tr>
<tr>
<td>(Hist. III. 3)</td>
</tr>
<tr>
<td><strong>Philosophical</strong></td>
</tr>
<tr>
<td>Geometry 5</td>
</tr>
<tr>
<td>(Hist. III. 3)</td>
</tr>
<tr>
<td><strong>FOURTH YEAR</strong></td>
</tr>
<tr>
<td>Classical</td>
</tr>
<tr>
<td>(Physics 1st sem. 2½)</td>
</tr>
<tr>
<td>(German II. 5)</td>
</tr>
<tr>
<td><strong>Scientific</strong></td>
</tr>
<tr>
<td>Laboratory 2)</td>
</tr>
<tr>
<td>Physics 2</td>
</tr>
<tr>
<td>Rec. M., W., F.</td>
</tr>
<tr>
<td><strong>Philosophical</strong></td>
</tr>
<tr>
<td>(Laboratory 2)</td>
</tr>
<tr>
<td>(Physics 1st sem. 2½)</td>
</tr>
<tr>
<td>(Latin IV. 5)</td>
</tr>
</tbody>
</table>
The Conservatory of Music

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 became a co-ordinate part of Denison University.

Denison University grants college credit for work in the theoretical courses of the Conservatory, on an equal footing with other elective studies, and under the group system there is one group, leading to the degree of B. Ph., with the Theory of Music as its major subject. Thus students working for the diploma of the Conservatory may at the same time apply the theoretical part of their course toward a Bachelor's degree from the University. It has been the aim of the Conservatory steadily to strengthen its courses and broaden the requirements for graduation, so as to maintain a standard as high as that of any other school in the state in the same lines of work. Information not contained in the following pages may be obtained by addressing Karl H. Eschman, A. M., Director, Granville, Ohio.

FACULTY.

KARL H. ESCHMAN, A.M., DIRECTOR.

Theory and History of Music.

Graduate of the Denison Conservatory in Piano and Organ. Graduate student, 1911-1912, under Professor Walter R. Spalding and Edward Burlingame Hill, Harvard University. Studied
Composition under Hugo Kaun and Piano under Victor Heinze in Berlin, 1912-1913.

**Fannie Judson Farrar,**

*Head of Piano Department.*


**Grace Jeannette Brooks,**

*Head of Voice Department.*

Pupil of Dr. Wm. Hemings, Cleveland; for three years, pupil of Prof. August Iffert in charge of Higher Vocal Department, Royal Conservatory, Vienna Soloist in New York Presbyterian Church, New York City.

**Leila C. Brown,**

*Organ and Piano.*

Graduate of New England Conservatory of Music, 1907. Post Graduate 1909. For two years, teacher in Normal Dept. of New England Conservatory. Two and a half years’ course at Peabody Institute, Baltimore, Md. Pupil of Ernest Hutchison of Berlin, Germany; F. Addison Porter, Boston; and Harold Phillips, Baltimore.

**Henry Preston, A. M.,**

*Voice.*


**Gayle Ingraham Smith,**

*Violin.*

Pupil of A. P. Bunker of the New England Conservatory of Music, and Luigi von Kunitz, former Concert-meister of the
Pittsburg Symphony Orchestra. Artist graduate of the Cincinnati Conservatory under Signor Piero Adolpho Tirindelli, violin, and Edgar Stillman Kelly, Theory.

CLARENCE D. COONS, M. S.,
*The Physical Basis of Music.*
Professor of Physics in Denison University.

RUTH ESTHER ROCKWOOD, B. Ph.,
*Assistant in Harmony.*

**Departments of Instruction**

**A. THEORY AND HISTORY.**

In the Theoretical classes the object is not so much to develop the latent powers of possible composers, although this is provided for, as to educate all in the intelligent appreciation and enjoyment of music. To this end, besides the strictly technical courses more general ones are offered, as in History and in Appreciation, requiring no previous musical training. 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.

College credit may be obtained for any of the numbered courses. Those who intend to complete the Theoretical course
are advised to take courses 2, 7-8, 9-10, and 13-14 in consecutive years. See also the schedule of Group C7 on page 89. The description of the courses follows:

1. *The Appreciation of Music.*—MR. ESCHMAN.
   A non-technical course, open to all students of the University. The object is to point out the structural principles of musical art and to show what constitutes real merit in any field of musical activity. The work embraces lectures and analyses, collateral reading, and critical reports of current recitals. Two hours, first semester, Monday and Wednesday, 2:30 P. M.

2. *Elementary Theory.*—MR. ESCHMAN.
   This course or its equivalent is prerequisite to all higher courses. It embraces a summary of the elements of music, a detailed study of the modern system of musical notation, the analysis of rhythms, practice 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, preparatory to the course in Harmony. Two hours, second semester, as in course 1.

5-6. *History of Music.*—MR. ESCHMAN.
   A literary course, requiring no special musical training. The work consists largely of assigned reading, with written reports, tests and theses. Far-reaching causes and effects are studied, with the inter-relation of different periods in the evolution of the art. A collection of primitive instruments serves to illustrate the early stages of music, and typical music of the successive periods is rendered in class so far as possible. Three credits, both semesters, Tuesday, Thursday and Friday, 1:30 P. M.

7-8. *Harmony.*—MR. ESCHMAN.
   Review of intervals and triads; dominant and secondary chords; suspensions; augmented and altered chords; modulations; organ-point; the harmonization of given melodies in bass or soprano, mostly in four parts, and the composition of simple original pieces. Demonstration at the key-board is demanded of the pupil as far as practicable. Solfeggio and elementary
theory are prerequisite, with knowledge of the pianoforte sufficient at least to play an ordinary hymn-tune at sight. Three credits, both semesters. Monday, Tuesday and Thursday, 10:30 A. M.

9-10. Counterpoint.—Mr. Eschman.

The principles of harmony applied to the melodious treatment of two or more voice parts in combination. 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. Courses 7-8 are prerequisite and some proficiency in piano playing is required. Three credits, both semesters. Monday, Tuesday and Thursday, 9:30 A. M.

11-12. Musical Form.—Mr. Eschman.

Study of thematic construction and elements of composition, through analyses of the principal instrumental forms, as illustrated in the works of classic and modern composers. The ultimate aim is an intelligent appreciation of music and a wide acquaintance with the best of it, as well as insight into the technique of composition. Practice is given in construction of the smaller musical forms, such as hymn-tunes, and the dance forms of the classic suite. Courses 7-8 must ordinarily precede this work; but by special permission may be taken in the same year. Two credits. Wednesday and Friday, 9:30 A. M.

13-14. Strict Composition.—Mr. Eschman.

Analysis and composition of the advanced forms of polyphonic music. This is a necessary preparation for the larger and freer forms of composition. Courses 7-10 are prerequisite, with some proficiency in pianoforte or organ playing. Two credits, both semesters, Monday and Wednesday, 1:30 P. M.

15-16. Free Composition.—Mr. Eschman.

First semester, original vocal settings of selected texts; analysis of standard choral works and songs; composition of short pieces for men's or women's voices, and for mixed chorus, unaccompanied. Later, types of accompaniment figures are
studied and settings made with piano or other accompaniment. Second semester, analysis and composition of vocal and instrumental music in the larger forms, with writing for orchestral instruments; practice in reading from vocal and orchestral scores. Prerequisite, courses 9-14. Two credits, both semesters, Wednesday and Friday, 10:30 A. M.


The fundamental laws of acoustics, governing the production and character of musical tones, are demonstrated by apparatus from the Physics department of the University. A lecture course, without prerequisites in music or science. Two credits, first semester, Monday and Wednesday, 2:30 P. M.

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

The course includes the 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.

Recognizing the study of the piano and its literature as an effective and important instrument of mental development and cultivation, the department makes every effort to teach the subject not merely from the professional point of view, but from the cultural as well.
C. COURSE IN VOICE.

The object of this course is the correct placing of the voice, so that the tones are even and firm throughout the entire range. Stress is laid on 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 power 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. Candidates for graduation must have at least two semesters of serious piano study, and at least two semesters’ training in the Chorus.

D. COURSE IN ORGAN.

A certain facility at the piano and in sight-reading is necessary 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, Merkle, Guilmant, selections by Widor, Dubois, Boellman, Lemare, Best, Hollins, Buck and Parker. Special attention is given to hymn playing, accompanying and registration to meet the practical needs of church work.

E. COURSE IN VIOLIN.

Good tone production and clear intonation receive a large share of attention, followed by studies and special exercises to meet the needs of the individual. As the student becomes more proficient, pieces, sonatas, and concertos by classic and modern masters will be studied.
It is the purpose 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 in ensemble playing, and those sufficiently advanced are admitted to the University Orchestra. The experience thus gained is not the least valuable part of the training, and is required of candidates for graduation.

F. ENSEMBLE CLASSES.

(a) **Solfeggio.**—

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.**—

One hour per week, both semesters, or two hours per week, one semester. Time to be arranged.

The aim is to give an equipment for successful work in teaching public school music. A knowledge of the fundamental facts to be taught is presupposed. The effort 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.

(c) Normal Class.—Miss Farrar.

This course is offered at the request of piano students, but includes nothing not of advantage to any music student who intends to teach, since the study of the piano is the foundation for the teacher of any branch of music.

The course presents 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 meets one hour a week both semesters. One semester of Theory or Solfeggio is required for entrance.

(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 Smith.

As far as material offers practice is held in trio and quartette work, with performances in public on suitable occasions. Advanced pupils are coached in ensemble with piano.

(f) Organ Methods.—Miss Brown.

Instruction in concert and church methods for advanced pupils in the Organ Department. The playing of hymns at sight, transposition, modulation, accompaniment, church services, and improvisation.

MUSICAL ORGANIZATIONS.

(a) The Enqwerson Choral Society. — Mr. Eschman, 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

(b) The Denison Orchestra.—Mr. Eschman, Director.

Membership is not limited to students 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.—Leonard B. Cox, Director.

This is an organization of twenty young men chosen by annual competitive examination from the men of the University community. 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 glee's, and college songs.

(d) The Shepardson Glee Club.

This club consists of twenty-four girls, and with the exception of the officers is reorganized each Fall by competitive examination. An annual concert is given in May. The club comprises the best voices of Shepardson College and the Denison Conservatory.

(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.
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 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 Student Recitals, public and private.

In the Voice and Violin Departments candidates must 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 must 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.

DIPLOMAS AND CERTIFICATES.

The Conservatory Diploma is granted on recommendation of the Conservatory Faculty to students who have completed the prescribed course of study in any of its departments, together with the general requirements described above. Each candidate for the diploma must give a public recital during the Senior year. To students substituting a certain amount of work in Normal
Training, or Public School music for the graduating recital, and giving promise of aptitude for teaching, a Certificate is granted instead of the Diploma. Students completing satisfactorily any integral part of the work offered in the various departments of the Conservatory, involving not less than a year's study, may obtain an officially signed statement to that effect, together with a copy of the Registrar's record.

**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.

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. 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.


Expenses.—The tuition charges and other fees for the various courses of instruction will be found on page 125.
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.

**EXPENSES**

*Semester Bills.* In Granville College for Men, the semester bills are $47.50; in Shepardson College for Women, $45.00.

In Doane Academy the semester bills are $45.00 for men and $42.50 for women.

All bills are payable each semester in advance.

*Matriculation fees* for Granville College and Shepardson College are as follows: For students entering as Freshmen, $2.00; as Sophomores, $3.00; as Juniors, $4.00; as Seniors, $5.00. Students holding Doane Academy diplomas are not required to pay this fee.

*Excess Registration.* College students taking more than eighteen hours of class-room work per week will be charged $1.00 per semester for each additional hour.

*Partial Registration.* Students taking less than ten hours per week will be charged as follows: In Granville College, $4.75 per semester hour; in Shepardson College, $4.50; in Doane Academy, $4.50 for men and $4.25 for women.

Students in Granville and Shepardson Colleges taking part of their work in Doane Academy pay no extra charge for that work unless it makes the total number of hours exceed 18 per week.

Doane Academy students taking one or more studies in college will pay regular college semester bills.

*Late Registration.* An extra fee of $1.00 will be charged to all students who have not completed their registration by the close of the second day of each semester.

*Special Examinations.* A fee of $2.00 will be charged for special examinations caused by absence from the regular examination, or for a re-examination in any study.
CORRECTION!!!
The previous document(s) may have been filmed incorrectly...
Reshoot follows
semester. All students are under obligations to perform at recitals when so directed by their instructor. Students are not allowed to perform in public without the knowledge and consent of the instructor.

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*Late Registration.* An extra fee of $1.00 will be charged to all students who have not completed their registration by the close of the second day of each semester.

*Special Examinations.* A fee of $2.00 will be charged for special examinations caused by absence from the regular examination, or for a re-examination in any study.
Laboratory Fees. In connection with scientific studies, will be found on pages 126-127.

Refunding Semester Bills. All registrations are for an entire semester and no money is refunded to a student who leaves before the end of the semester, with the following exceptions:

A college student leaving during the first half of the semester, and regularly dismissed, will pay for the time of his actual enrollment at the rate of $5.00 per week; an Academy student at the rate of $4.75. The remainder of the semester charges will be refunded. The time of enrollment in such cases will be calculated from the first of the semester to the date when the student is dismissed by the Registrar of the University or the Dean of the Academy.

Men's Dormitories. Rooms for men in Marsh and Talbot Halls may be secured on application to the Treasurer, by paying a retaining fee of $5.00 on or before August 1. If the room is occupied, this fee is credited on the room rent; otherwise it is forfeited. The room rent ranges from $17.50 to $25.00 per semester for each student.

No room can be secured for a shorter time than one semester. If a room is vacated for any cause before December 1 of the first semester, or before April 15 of the second, only one-third of the room rent will be refunded. No rent will be refunded after these dates.

Rooms are in suites comprising sitting-room and bed-room (except single rooms for one person) and are supplied with dresser, book-case and chairs, single iron bedsteads, mattresses and springs. Bed-clothing and towels are provided by the student. The rooms are lighted by electricity and heated by hot water, and are in close proximity to lavatories on the same floor, where shower baths are provided, with hot and cold water.

Women's Dormitories. Shepardson College provides five dormitories for the accommodation of its students, King Hall, Burton Hall, Stone Hall, South Cottage, and Domestic Science Hall. Rooms may be secured in these halls by paying a retaining
fee of $5.00 before July 1. This fee is credited on the room rent if the room is occupied; otherwise it is forfeited.

Ample lavatories are provided on each floor and have baths with hot and cold water. Single iron bedsteads, mattress, springs and rug are provided in all rooms. All rooms and halls are lighted by electricity and heated by hot water. All bedding and toilet appliances are furnished by the students. All the dormitories are provided with fire escapes.

**Dormitory Charges.** Young women rooming on the Shepardson College campus are charged $105 per semester, which includes room rent and board in the Shepardson Dining Hall. All meals sent to rooms are charged extra.

Special arrangements must be made by students desiring to room in Domestic Science Hall.

**Refunding of Charges.** Ordinarily no rebate can be made in room rent, but to students leaving on regular dismissal before December 1 of the first semester, or April 15 of the second, a rebate is granted of $3.00 per week on board for the remainder of the semester. No rebate is granted after these dates.

Breakage or other damage to furniture or rooms is charged to the occupants.

**Charges in Conservatory of Music, Per Semester**

**TUITION**—in Pianoforte, Voice, Violin or Organ,
- two private lessons per week $30.00
- one private lesson per week $17.00

**TUITION**—in Pianoforte and Voice, under Head of Department,
- two private lessons per week $40.00
- one private lesson per week $22.00

**TUITION**—in Harmony, Counterpoint, or History of Music class lessons,
- three hours per week $12.00

**TUITION**—in Form, Canon and Fugue, Composition, Counterpoint, Elementary Theory—Appreciation, class lessons, two hours per week $8.00

**TUITION**—in Solfeggio, Public School Music or Normal Training, class lessons, one hour per week $4.00
Rent of piano for practice, per semester-hour (i.e. one hour a week for a semester) $1.00
Rent of Pipe Organ for practice $0.15 an hour.
All private lessons are one-half hour in length. All class lessons are one hour.

Students taking full time in Piano, Organ, or Violin, and less than ten hours per week in college, will be charged at the rate of $4.50 per semester hour for college studies.

Rebate. Students dropping music before the middle of the semester must make arrangement for rebate with the Director of the Conservatory.

Charges in Art Department

Courses 1, 3, 5, and 7 each ............................................. $15.00
Courses 2, 4, 6, and 8 each ............................................. 15.00
Courses 9, 11, and 13 each ............................................. 5.00
Courses 10, 12, and 14 each ............................................. 5.00
Metal Work and Jewelry, $25.00 per semester or 50 cents per hour
Theory of Art, per semester ............................................. 8.00
China Painting, per semester ............................................. 25.00

Charges in Household Economics Department, Per Semester

Cooking ............................................................... $15.00
Sewing ............................................................... 12.00
Basketry ............................................................. 12.00

Half time in the above will be at the rate of $8.00 for Cooking, $7.00 for Sewing and Basketry.

EXTRA CHARGES FOR CERTAIN COURSES

The fees indicated below are in all cases for a single semester.

Free-hand Drawing .................................................... $2.00
Astronomy—Course 1 .................................................. $1.00

Botany— Course 1 .................................................. 2.50
2 .................................................. 3.00
3 .................................................. 3.00
6 .................................................. 4.00
7 .................................................. 4.00
9 .................................................. 1.00
10 .................................................. 1.00
11 .................................................. 1.00
12 .................................................. 2.00
17 .................................................. 1.00
18 .................................................. 1.00

Chemistry— Course 1 .................................................. $4.00
2 .................................................. 4.00
3 .................................................. 4.00
4 .................................................. 4.00
5 .................................................. 4.00
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<td>Geology— Course 21</td>
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In Doane Academy

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<td>Physiology</td>
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Society of the Alumni

The Society of the Alumni of Denison University 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 has been published, giving changes in addresses and occupations 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.

Alumni Teachers’ Agency

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 teach-
ing 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.

Phi Beta Kappa

In 1910, the Senate and Council of Phi Beta Kappa granted a charter for the organization of a chapter of the Society in Denison University, to be 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. This society was established, early in the history of American college life, for the express purpose of recognizing and fostering high scholarly attainment in college work. Election to membership is confined to Seniors and Juniors who have shown themselves qualified for such an honor on that basis. The elections for the current year are as follows:

Members of the Senior Class:
Eri Jay Shumaker, Helen Gilmore,
Homer Burton Adkins, Irene Susan Tulloss,
Randolph Rector, Abigail Emma Rowley.

Members of the Junior Class:
A. Lowell Johnson, Nellie Ballou,
Imogen Adams Hamblen.
Denison University Summer School

The fourth session of the Denison University Summer School will begin on June 21st, 1915, and close July 30th.

FACULTY.

There will be twenty or more regular instructors on the Faculty, including many of the regular Denison Faculty and several instructors from the leading institutions of this and other states.

AIM.

The Summer School aims to provide for the needs of several distinct classes of students: those seeking to prepare for a life license in the teaching profession; those desiring merely to strengthen and broaden their professional training; those who wish to prepare to enter college, and college students seeking credits towards an academic degree.

COURSES OF INSTRUCTION.

Courses are offered in the department of Education, including such subjects as School Administration, Educational Psychology, the Psychology of Conduct, Child Study, and the History of Education. Work in Primary Methods will receive special attention. Five or six experts in primary work will devote their whole time to this subject. There will be courses in methods in History, Geography, Arithmetic, Language, Reading, Story Telling, Dramatization, etc. Instruction will also be given in Agriculture, Domestic Science, and Public School Gymnastics.

Practically all the subjects usually required for college entrance will be taught, mostly by regular members of the Faculty of Denison University, or instructors in Doane Academy. Courses in the University will also be offered by such depart-
ments as Astronomy, Physics, Chemistry, Botany, Zoology, English, German, Mathematics, and Political Science, besides the courses in Education mentioned above.

CREDITS.

Denisen is on the state list of regularly accredited schools, and its work will receive full credit with the department of Public Instruction. The University is equipped to meet all the requirements of the new school code, including the full amount of professional training, practice and observation work, etc. Its credits are accepted by all the educational institutions of Ohio and other states, should anyone wish to transfer his credits from this school to some other.

EXPENSES.

The expenses involved in attendance are moderate. Tuition for the term is ten dollars. Board is furnished at the Shepardson College Commons at three dollars per week, with a reasonable reduction to those who wish to return home for the weekend. Rooms in the college dormitories may be had at $1.00 per week each, where two occupy the same room.

Those who expect to attend a Summer school this year should write at once for a bulletin of the Summer School of Denison University, containing full information. Address,

C. E. GOODELL,
Dean of Summer School,
Granville, Ohio.
Degrees Conferred in 1914

HONORARY.

Doctor of Laws:

William Herbert Perry Faunce, President of Brown University.

Doctor of Laws:

Ernest Fox Nichols, President of Dartmouth College.

Doctor of Laws:

Richard Cockburn MacLaurin, President of Massachusetts Institute of Technology.

BACHELOR OF ARTS.

Harry Elton Orr
Robert William Peirce

Garnett Martin Riley
Rachel Holbrook Seagray

BACHELOR OF PHILOSOPHY.

Albert McKay Akers
Elbert Lewis Bar
Castle Marlatt Brown
Maxwell Thomas Burnham
Lambertson Harold Chaille
Robert McGilbre Collett, Jr.
John Norman Darrow
Edward Bixler Davis
Ellis Barker Downey
Freeman Essex
Wilson Washington Galloway
Graffon Parker Hill
Wallace William Masteller
Asa C. Myers
Lyman Cole Pinkerton
Harry Julius Schimmel
Carey Judson Scott
Lawrence Everett Smith
John Andrew Thiele
Hazel Mae Bailey
Mildred Gaynelle Bailey

Harriet Amelia Barrington
Ruth Anne Barrington
Edith Letitia Brown
Vivian Critchfield
Ethel Lottie Dye
Dorothy Finch
Margaret Caroline Gooch
C. Luella Graham
Fern Marie Griffin
Harriet Elizabeth Haggard
Florence Hannahs
Harriet Olney Hunt
Grace Rose Jones
Gladys Kemper
Marjorie Lea McCutcheon
Katherine Mack
Marion Charlotte Miller
Mildred Moore
Helen Lorene Nott
Lillis Price
Ruth Esther Rockwood

132
IRENE GERTRUDE SHENBERGER
MARY GRACE SHENBERGER
LOTTIE M. SINNETT
RUTH STEWART

RUTH LUCILLE THOMAS
MARGARET WASSON
HELEN DOROTHY WOLCOTT
LORA SMYTHE WRIGHT

BACHELOR OF SCIENCE.

EUGENE JUDSON BARNEY
LESTER JAMES BLACK
CHARLES CLAYTON BROWN
LOUIS LUCIEN BRUCE
JOHN SHERMAN CLARK
GEORGE DEARMOND CURTIN
JUSTIN RICHARDSON HARTZOG
JOSEPH FREDERICK HASKINS
CLAUSE RUSSELL HASTINGS
CHARLES WOOD HENDERSON
HAMILTON FRANCIS HOLTON
ROSS HOWELL
RAY EDMUNDS HOWELL
CORWIN MATTHEWS
FRANK MCCARTY MATHEWS
ROBERT BEMIS MILLER
Dwight Munison MOORE
RALPH HARDING MORROW
KENNETH AURAILIUS PFEIFFER
THOMAS WARREN PHILLIPS

ARTHUR CLAYTON PROUTY
ALBY SWEET FLEMING
EUGENE COFFMAN FLORY
ROBERT DEMOSS GREGG
ADIN A. GRUBB
MASON KENT READ
CLIFTON FRANK SCHROPP
ROLLIN WOODRUFF SCHWEGMAN
JOHN PAUL SELLERS
JAMES DWIGHT THOMPSON, JR.
ROGER EUGENE TUTTLE
ERNST GILBERT VILLERS
EARLE WATKINS
ROBERT REDDING WEBER
ARDON KIRK WHEELER
JAMES LAWRENCE WRIGHT
RUTH WOODIN ABELL
ALICE MAY BULLETT
RHODA IVA GALBRATH
BESSIE ANNA MATILDA HAGMEIER

Diplomas and Certificates

Conservatory Diploma in Voice: HARRIET ELIZABETH HAGGARD.
Conservatory Diploma in Piano: MARION CHARLOTTE MILLER.
Certificate in Domestic Science: LAURA HERRICK, MAMIE EDNA LLOYD, FLORENCE HELEN REESE, MERRIE SOPHIA STEERE.
Certificate in Art: ALTA BELLE O'DANIEL, RUTH FRANCES RICKERT.

Honors and Prizes Awarded in 1914

Special Honors in English: MARJORIE LEA MCCUTCHEON, LORA SMYTHE WRIGHT.
Special Honors in German: LORA SMYTHE WRIGHT.
Special Honors in Greek: RACHEL HOLIBROOKE SEAGRAVE.
The Lewis Prize Contest: Debate, Ellis Barker Downey, Calliopean; Oration, Randolph Rector Franklin; Essay, Quincy A. Cheadle, Calliopean; Declamation, Thomas Lloyd Hickman, Franklin.

The Samson Talbot Bible Reading Prize: First prize, Roy Burton Deer; Second prize, Edward Bixler Davis.
Students in Granville College Classes

GRADUATE STUDENTS.

ANNABEL BRADSTREET, English,
ALBY SWEET FLEMING, Mathematics and Engineering,
REV. DAVID C. GILMORE, English,
HAMILTON FRANCIS HOLTON, Chemistry,
FRANCIS F. PATRICK, English,

Senior Class.

HOMER BURTON ADKINS, Sc.,
HORACE ROBERT BIGGS, Ph.,
STROTHER ANDERSON CAMPBELL, Ph.,
EVAN HOWARD DAVIES, Ph.,
ROY BURTON DEER, Ph.,
CLARENCE LUTHER FOX, Ph.,
NEIL ESBURN HANSEN, Ph.,
HENRY DEMING HOPKINS, Sc.,
LEONARD GEORGE HOWELL, Sc.,
JOSEPH REASON HOY, Ph.,
RALPH JONES, Sc.,
ORLAND BETHEL KIRK, Sc.,
JACOB HENRY KNAPP, Jr., Sc.,
JOHN BUDD LONG, Jr., Ph.,
EDWARD PULLMAN MILLS, Ph.,
CAREY PITT MOORE, Sc.,
ERNEST HENRY MORRIS, Sc.,
ROBERT STEPHEN MORRIS, Ph.,
ASBURY LEONCE ODEBRECHT, Ph.,
WAYNE CONVERSE OVERTURF, Ph.,
CHARLES WILSON PRINE, Sc.,
RANDOLPH RECTOR, Ph.,
DAVID EDWARD REESE, Ph.,
WALTER BULKLEY ROACH, Cl.,
GEORGE MILTON ROUDEBUSH, Ph.,
ERI JAY SHUMAKER, Cl.,
HENRY SANFORD STOUT, Sc.,

Hartwell.
Mt. Vernon.
Granville.
Granville.
Granville.

Hartwell.
Mt. Vernon.
Granville.
Granville.
Granville.

Newport.
Granville.
Berea, W. Va.
Granville.
Harbor Beach, Mich.
Oak Park, Ill.
Mansfield.
Granville.
Ironton.
Newell, W. Va.
Parkersburg, W. Va.
Piedmont.
Parkersburg, W. Va.
Council Bluffs, Iowa.
Ashtabula.
Newton Center, Mass.
Omaha, Neb.
Nottingham.
Columbus.
Newark.
Hillsboro.
Pawtucket, R. I.
Massillon.
Prome, Burma.
Newtonville.
Bowling Green.
Dayton.
Hervey Aldrich Tribolet, Ph.,
Frank Henry Venn, Sc.,
John St. Clair Ward, Sc.,
Arthur Consaul Wickenden, Ph.,
Russell Hill Williams, Sc.,
Clyde Curtis Wilson, Sc.,
Paul Vern Wooley, Sc.,
William Earlen Yates, Cl.,

Morgan Park, Ill.
Malden, Mass.
Duncans Falls.
Toledo.
Kalamazoo, Mich.
Carlisle, Ind.
Galveston, Ind.
Wolf Summit, W. Va.

Junior Class.

Clyde Stewart Adams, Sc.,
John Samuel Barrington, Sc.,
John Leander Bjelke, Ph.,
Gordon Jacob Burker, Sc.,
Frederic Latimer Chase, Sc.,
Quincy Adams Chealse, Cl.,
Leonard Burford Cox, Sc.,
Henry Donald Dawson, Sc.,
James William Gainforth, Ph.,
Horace Longia Griley, Sc.,
Calvin Finley Hamilton, Cl.,
Arthur Lowell Johnson, Cl.,
Harold L. Kier, Ph.,
Donald McKinley Ladd, Sc.,
Stuart Lefevre Lapp, Sc.,
Albert Harbolde LaRue, Ph.,
Lee Harrison Lyman, Sc.,
George Marshall Lyon, Sc.,
Earl Rosendale Marsh, Ph.,
William Conway Martin, Sc.,
Bryant Charles Morris, Sc.,
Howard Caxtwright Nelles, Sc.,
Edwin Aubrey Oldham, Ph.,
Edgar Wesley Owen, Sc.,
Delbert Randall Pratt, Sc.,
Allen Thomas Price, Ph.,
Raymond Chester Smart, Ph.,
Gloyd Stankard, Sc.,
Charles Calvin Starrett, Ph.,
Edward Milan Taylor, Ph.,
Carl Louis Thiele, Jr., Sc.,
Kenneth Lyon Ullman, Ph.,
Donald Ellis VanWinkle, Sc.,

Newark.
Granville.
Wellsville.
Sunbury.
Newark.
Newark.
Cairo, Ill.
Haskins.
Wexford, Ireland.
Cincinnati.
McKeesport, Pa.
Granville.
Granville.
Bowling Green.
Norwood.
East Liverpool.
Elyria.
Huntington, W. Va.
Bowling Green.
Paris Crossing, Ind.
Troy.
Toledo.
Granville.
Beverly.
Granville.
Morgan Park, Ill.
Sidney.
Toledo.
Newark.
Marion.
Dayton.
Granville.
Cheyenne, Wyo.
ANNUAL CATALOGUE

Robert Paxon Vickers, Sc.,
Judson Blake Walker, Sc.,
Russell Eldridge West, Sc.,
Charles Somerville Willis, Ph.,
Harry Mozier Wood, Sc.,
Wilfred Cole Woodyard, Ph.,
Saburo Yasumura, Ph.,
Wayne Addison Yoakam, Sc.,

Salem.
Toledo.
Rochester, N. Y.
Washington C. H.
Mt. Gilead.
Guadalajara, Mexico.
Morioka, Japan.
Homer.

Sophomore Class.

John Thomas Allison, Sc.,
Edward Everett Alward, Ph.,
John Edward Abblaster, Ph.,
Henry R. Arnold, Ph.,
Byron Eugene Ashbrook, Sc.,
Donald Bliss Atwell, Ph.,
Oren Huling Baker, Ph.,
Clarence Llewellyn Beachler, Ph.,
Edward Corey Boggs, Sc.,
Harry Brock, Sc.,
Howard George Buckley, Sc.,
Edwin Sumner Chamberlin, Ph.,
Frank Richard Clary, Sc.,
Wilford Wells Cossum, Ph.,
Ewart Riley Deucher, Cl.,
Clifford Henry Dileo, Sc.,
Russell C. Eswine, Ph.,
Maurice Burgit Finch, Cl.,
Frederick C. Hall, Sc.,
Calvin Hoffman Hazlett, Cl.,
Almonte Charles Howell, Cl.,
David Hiram Jones, Sc.,
Harold Williamson Jones, Ph.,
Robert Hezekiah Kidd, Cl.,
Edgar Earl Kidwell, Ph.,
Edwin Hamilton Kinney, Sc.,
Frank Oswald Kruh, Sc.,
Robert Huffman Ladd, Ph.,
Frank Anderson Logan, Sc.,
Charles A. Metcalf, Jr., Ph.,
Roland Edison Murphy, Ph.,
Charles William Oresek, Ph.,
Charles Alpheus Powell, Sc.,

Tarentum, Pa.
Pataskala.
Kittanning, Pa.
Mt. Vernon.
Granville.
Zanesville.
Ronceverte, W. Va.
Dayton.
Sattenapalle, S. India.
Dayton.
Marietta.
Dayton.
Cambridge.
Chicago, Ill.
Marietta.
Dayton.
Etna.
Beaver Dam, Wis.
Newark.
Newark.
Guantanamo, Cuba.
Granville.
Middletown.
Dayton.
Mt. Gilead.
Topeka, Kansas.
Sterling, N. Y.
Toledo.
Zanesville.
Elyria.
Midnapore, India.
Canton.
Chillicothe.
Stuart Hamilton Prescott, Sc.,
Byron Bell Pryor, Sc.,
Edward Watkins Putnam, Ph.,
Thomas Hugh Rees, Sc.,
Dorman Emmor Richardson, Sc.,
John Christiano Rosa, Sc.,
Grove Cleveland Sayre, Sc.,
Leland Durwood Schock, Sc.,
Albert Augustus Scholl, Sc.,
Lewis Dudley Scott, Sc.,
Claude Hamilton Smith, Sc.,
John Neil Spencer, Sc.,
Clarence Gordon Swain, Sc.,
Irvin Levi Swanson, Sc.,
Frank Bird Ward, Ph.,
John Alling Ward, Ph.,
Spencer George Weber, Sc.,
Daniel Wilson Weincy, Sc.,
Charles William Welfwood, Sc.,
Leslie Haines Winans, Sc.,
Wayne Williams Wine, Sc.,
Ralph Yost, Sc.,

Cleveland.
Newark.
Granville.
Girard.
Toledo.
Boston, Mass.
Granville.
Norwalk.
Newport, Ky.
Granville.
Roseville.
New Straitsville.
Roseville.
Golaghat, Assam, India.
Cincinnati.
Newark.
Toledo.
Newark.

Ning Yuan Fu, W. China
Toulon, Ill.
Zanesville.
Thornville.

Freshman Class.

Bernard David Adams, Sc.,
Joseph Neil Armstrong, Ph.,
Lee Edwin Arthur, Sc.,
Paul Henry Askin, Sc.,
Oscar Leo Atchley, Ph.,
Gerald Browne Athey, Sc.,
Irwin Hall Bacon, Ph.,
Gale Wyeth Baldwin, Sc.,
James Werner Ballard, Sc.,
Jay Grover Bash, Ph.,
Stanley Stephens Bash, Ph.,
Albert Van Beach, Sc.,
Arthur J. Beattie, Sc.,
George Martin Bowman, Sc.,
Herbert Daniel Baker, Ph.,
Ewart Gladstone Carney, Sc.,
Herbert Asken Carr, Cl.,
Hervey Doyle Chandler, Sc.,
Belford Pickering Cheadle, Ph.,

Newton Center, Mass.
Newark.
Foster.
Wilmerding, Pa.
Madisonville.
Dayton.
Clio, Arkansas.
Marysville.
Washington C. H.
Utica.
Utica.
Cambridge.
Norwalk.
Gambier.
Zanesville.
Granville.
Cable.
Cadiz.
Newark.
HAROLD LINGLE CLARK, Sc.,
SIDNEY WIXFORTH COLIER, Sc.,
KARL EMMETT CHILLY, Sc.,
TIMOTHY EARL CRITZ, Sc.,
RUSSELL ASHMORE CURRIN, Sc.,
PAUL WICKES CURTIS, Ph.,
RALPH DAVID DAVIES, Ph.,
FISHER NOEL DAVIS, Sc.,
CURTIS DELTON DECKER, Sc.,
FRANCIS TEMPLE DENMAN, Sc.,
ROGER Q. DOYLE, Sc.,
GEORGE HERBERT DUNLAP, Sc.,
FRANK WILSON EDWARDS, Ph.,
OTHO MCKINLEY ELTON, Sc.,
ROGER DE RUYTER FERRIS, Sc.,
BURROWS HOLCOMB FRASCH, Sc.,
EARL MARTIN FUTERER, Sc.,
ROBERT CLINTON GILMORE, Cl.,
RUSSELL MORSE GRIFFETH, Sc.,
H. PARIS HACKNEY, Ph.,
WILLIS JESSE HANDEL, Sc.,
EMMETT FITZPATRICK HARTSOCK, Sc.,
CHARLES HERBERT HASKINS, Ph.,
GEORGE WILLIAM HAZLETT, Cl.,
LLOYD THOMAS HICKMAN, Cl.,
GORDON EDWARDS HILDRETH, Ph.,
ASA RHOLSTON HILL, Ph.,
PHILIP GERALD HORTON, Sc.,
SIDNEY JENKINS, Sc.,
ALFRED JANNEY JOHNSON, Cl.,
ARTHUR WRIGHT JONES, Sc.,
MILLARD LEROY JORDAN, Sc.,
GAIL RUSSELL KECKLEY, Ph.,
CLARK PHILLIPS KELLEY, Ph.,
DONALD P. KISSANE, Ph.,
RAYMOND S. KNAPP, Sc.,
J. BENJAMIN KNIFFIN, Ph.,
EDWARD E. Krause, Sc.,
GORDON ROMANE LANG, Sc.,
JAMES MACPHERSON, Sc.,
GEORGE CARLTON McCONNAUGHEY, Ph.,
HAROLD RAY MALCOLM, Ph.,
JOHN MCCOWEN MARTIN, Ph.,

ANNUAL CATALOGUE

Ikoko, Congo Belge, Afr.
Van Wert.
Newark.
Seville.
Kenton.
North Fairfield.
Newport, Ky.
Gallipolis.
Deance.
Coshcocton.
Cambridge.
Bangkok, Siam.
Canton.
Delta.
Columbus.
Bremen.
Granville.
Granville.
Granville.
Proctorville.
Newark.
Yardley, Pa.
Granville.
Newark.
St. Paul, Minn.
Cincinnati.
Ohswekon, Ontario.
Newark.
Cambridge.
Granville.
Granville.
Pleasant City.
Van Atta.
Granville.
Newark.
Norwalk.
Stryker.
Newport, Ky.
Ashtabula.
Granville.
Hillsboro.
Norwalk.
Granville.
Jessie Kirk Mears, Cli,
Frank Gaylord Mercer, Sc.,
William Forest Meredith, Sc.,
Douglas Marston Moore, Sc.,
Bernard O. Moss, Ph.,
Errol Rupert Murphy, Sc.,
Fred C. Neils,
Miller J. Newton, Sc.,
Hugh Byron Nicholson, Ph.,
Charles Martin Nichols, Sc.,
Harold Wilbur Nixon, Sc.,
Robert Paul Nixon, Ph.,
Jerome Buckingham Norfell, Sc.,
Charles Stanley Pease, Sc.,
Owen Newton Price, Sc.,
James Leslie Putnam, Sc.,
Harry Mood Pyles, Ph.,
Wilfred Lane Rawlings, Sc.,
Percival George Read, Sc.,
Philip Leonard Rhodes, Sc.,
Carlyle Jones Roberts, Sc.,
Darwin Lower Rummel, Sc.,
Nelson Good Rupp, Sc.,
Robert Jefferson Salisbury, Sc.,
Charles Arthur Scott, Ph.,
Gordon Stifler Seagrave, Cl,
Rowland Alfred Streets, Cl,
Ray Francis Shinn, Ph.,
George Herbert Shorney, Sc.,
Emery Harold Shreve, Sc.,
Allen Field Smith, Ph.,
Mark Bryan Smith, Sc.,
Harold Smucker, Sc.,
Hal Frank Snyder, Sc.,
Edward Dare Sperry, Sc.,
Andrew Spiak, Sc.,
John Hobart Sutton, Ph.,
Edgar William Thompson, Sc.,
Ebenezer Sanders Thresher, Sc.,
Foster Tyler, Sc.,
Alvin Hugh VonGuten, Sc.,
Leonard Carl Von Thron, Ph.,
Joseph Kennard Weddell, Cl.,

Gilbert.
Newark.
Cambridge.
Middletown.
Cambridge.
Pontiac, Ill.
Newark.
Maineville.
St. Mary's.
Urbana.
Marietta.
Granville.
Newark.
Van Atta.
Morgan Park, Ill.
Merrill, Wis.
Cambridge.
Newark.
Xenia.
Newark.
Toledo.
Newport, Ky.
Port Clinton.
Mt. Vernon.
Cambridge.
Rangoon, Burma.
Kankakee, Ill.
Maplewood,
Oak Park, Ill.
Union City, Pa.
Hinsdale, Ill.
Chicago, Ill.
Newark.
Cambridge.
Toledo.
Youngstown.
Attica.
Clermont, Florida.
Kansas City, Mo.
Alexandria.
Conneaut.
Oak Harbor.
Woodbury, N. J.
ANNUAL CATALOGUE

ROBERT LAW WILKINSON, Ph.,
EMERALD B. WILSON, Ph.,
HAROLD WRIGHT WOODROW, Sc.,
HERBERT CONDON WRIGHT, Sc.,
OSCAR EDWARD WYNNE, Sc.,
COLE ARTHUR YOAKAM, Sc.,
HERBERT ROBINSON YOUNG, Ph.,
San Antonio, Texas.
Middletown.
West Jefferson.
Granville.
Alexandria.
Homer.
Toledo.

Special Students.

LOYD LA RUE ANDERSON,
R. REVERE BEGGS,
CHARLES WESLEY BELT,
PHILIP LUKE BICKEL,
FLOYD GILMORE BROWNE,
ELMER DUNLAP CLOSMAN,
HAROLD WINFIELD ESMWILER,
JAMES WILLIAM FULTON,
WILLIAM EDWARD HAYDEN,
WILLIAM FRANCIS HUFTSTADER,
HAROLD COOKE PHILLIPS,
DURHAM BISHOP FLYLER,
RALPH ELLSWORTH RUSSELL,
CLIFFORD CLAIR SHERBURNES,
DAVID HAROLD SPEICHER,
MARK SWISHER,
MYRON HALLAM TOWSLEY,
LUTHER HENRY WALKER,
HELMER LEWIS WEBB,
JAMES OSCAR WHITE,
PAUL COCANOUR WRIGHT,
Kane, Pa.
Freeport.
Granville.
Lexington, Mass.
Haskins.
Zanesville.
Granville.
Utica.
Richwood.
Wyoming.
Savlaam, Jamaica.
Newark.
Ashtabula.
Newark.
Granville.
Urbana.
Downters Grove, Ill.
London, Ky.
Sabina.
Fredericktown.
Students in Shepardson College Classes

Senior Class.

MARGARET MINERVA ALLEN, Sc.,
EDITH MARIE BEARD, Ph.,
LILLIAN BISHOP BOOYS, Sc.,
HAZEL EDNA BOLIN, Ph.,
MARGARET BOYER, Ph.,
ALICE ELIZABETH DIETER, Ph.,
HELEN MARGARET ENGELAND, Ph.,
FLORENCE DOVE FOSTER, Ph.,
HELEN GILMORE, Cl.,
OLIVE MARGARET GRAYBURN, Ph.,
WINIFRED LOUISE HAMILTON, Ph.,
JOSEPHINE EULALIA HILLARD, Ph.,
PERE ALICE JOHNSON, Cl.,
VIOLA MAY JOHNSON, Ph.,
GRACE CYRILLA JONES, Ph.,
VIVIAN BERtha PERRY, Ph.,
VIRGINIA MARTHA PUTNAM, Sc.,
MARJORIE RETTIE, Ph.,
ABIGAIL EMMA ROWLEY, Sc.,
EDNA MARY SCHROPP, Ph.,
RUTH ELIZABETH STAFFER, Cl.,
LOUISE MAY SPIVEY, Cl.,
HARRIET LAURA STODDARD, Sc.,
LUCILE SUMMERS, Ph.,
SUSAN JULIETTE THRESHIER, Ph.,
IRENE SUSAN TULLOSS, Cl.,
EVA LUCILLE WRIGHT, Ph.,

Chicago, Ill.
Wilkinsburg, Pa.
Sattenapalle, S. India.
Minneapolis, Minn.
Library, Pa.
Dayton.
Zanesville.
Ottumwa, Iowa.
Granville.
Wilkinsburg, Pa.
Kankakee, Ill.
Newark.
Meade, Neb.
Cincinnati.
Columbus.
Chillicothe.
Orange, Calif.
Troy.
Chester, W. Va.
Sandusky.
Brookville, Pa.
Dayton.
Newburg, N. Y.
Nowata, Okla.
Kansas City, Mo.
Newark.
Granville.

Junior Class.

NELLIE BALLOU, Cl.,
DIONICE ESTELLA BARNES, Cl.,
ESTHER LAUREL BARNES, Ph.,
ALMA LOUISE BRUMBACK, Sc.,
ELEANOR JOY CARMEN, Ph.,
LAURA MABEL COOK, Ph.,

Newark.
Monroeville.
Kewanna, Ind.
'Granville.
Marietta.
Granville.
MARY FRANCES DEAN, Ph.,
EDITH IONE DEMING, Sc.,
ALICE BELL EISWALD, Ph.,
EMMA LENA GEIS, Cl.,
IMOGEN ADAMS HAMBLEN, Ph.,
LAURA CORNELIA HARRIS, Ph.,
IRMA HAUSER, Sc.,
DOROTHEA JESSIE LAPP, Ph.,
BERNICE CATHERINE LEMOY, Ph.,
ALICE IRENE LONGNECKER, Sc.,
DOROTHY EMMA MCCANN, Sc.,
ETHEL GENDRELL MCDANIEL, Ph.,
REULAH AGNES NOTT, Ph.,
MILDRED ELIZABETH OLDHAM, Ph.,
HELEN OLNEY, Ph.,
KATHERINE OLNEY, Ph.,
FLORENCE HELEN REES, Ph.,
VERNA TALITHA SALISBURY, Ph.,
ESTHER VICTORIA SMYTH, Ph.,
DOROTHY VAN WINKLE, Sc.,
SARAH ELIZABETH WALKER, Cl.,

Coshcton.
Newark.
Euclid.
Myitkyina, Burma.
Granville.
Manlius, N. Y.
Chicago, Ill.
Norwood.
Evanston, Ill.
Dayton.
Dayton.
Covington, Ky.
Marietta.
Xenia.
East Cleveland.
East Cleveland.
Pemberville.
Mt. Vernon.
Marion.
Cheyenne, Wyo.
Newark.

Sophomore Class.

GLADYS ANTOINETTE ANDERSON, Ph.,
MARY EUGENIA ANDERSON, Ph.,
MARGARET MCQUISTON BALL, Ph.,
JESSIE VEATRICE BURNS, Ph.,
CONSTANCE DAY CHENEY, Ph.,
LILLIAN VIOLA CONGLETON, Ph.,
HELEN LAURA CORD, Ph.,
IDA MABEL CRAWFORD, Ph.,
HAZEL OLIVE DEWITT,
HELEN MARGARET DICKINSON, Ph.,
FLORENCE ELEANOR DOWNEUD, Ph.,
FLORENCE MARY FISHBURN, Ph.,
DORIS RUTH FREDERICKSON, Ph.,
ALICE MAY GEORGE, Ph.,
MARGARET CATHERINE GIVEN, Ph.,
EDITH MAY GRAVES, Ph.,
EMELYN ELIZABETH GROVE, Ph.,
SEIMA LOUISE HAMANN, Ph.,
MINNAM LUCILE HASTINGS, Ph.,
LILLIAN MARGARET HICKEY, Ph.,

Evanston, Ill.
Newark.
Portsmouth.
Piqua.
Morgan Park, Ill.
Holland, Mich.
Norwood.
Mt. Gilead.
Norwalk.
Bellefontaine.
Toulon, Ill.
Mt. Vernon.
Toledo.
Aurora, Ill.
Granville.
New London.
Toledo.
Newark.
Akron.
Clay Lick.
Sara Barbour Holmes, Ph.,
Emma Jeanne Humphreysville, Ph.,
Lucile Louise Hutson, Ph.,
Lucy Pauline Ireland, Ph.,
Ada Burkett Johnson, Sc.,
Grace Frances Johnson, Ph.,
Elizabeth Gertrude Jones, Ph.,
Mary Vashti Jones, Ph.,
Lois Lalla Langstaff, Ph.,
Mamie Edna Lloyd,
Helen Lockhart, Ph.,
Katherine Bitner Long, Cl.,
Helen Olivia Longsworth,
Mary Frances McDonald, Ph.,
Mary Belle McClain, Cl.,
Florence Tomlin Mason, Ph.,
Jessie Ruth Mills, Cl.,
Aura Helen Moore, Sc.,
Clara Mae Morris, Ph.,
Ethel Neff Morris, Ph.,
Janet Emmaletta Pond, Ph.,
Selma Viola Russell, Ph.,
Grace Russell Seagrave, Sc.,
Edith Ruth Shreve, Ph.,
Grace Burtwin Sinsabaugh, Ph.,
Pauline True Sperry, Ph.,
Sara L. Taylor, Ph.,
Lucille Clare Tilbe, Cl.,
Marie Frances Tilbe, Cl.,
Margaret Ethel Tipton, Ph.,
Mary Frances Walsh, Ph.,
Margarethe Wellwood, Ph.,
Ethel Egerbert West, Ph.,
Dorothy Whitelaw, Ph.,
Louise Lane Williams, Sc.,
Amy Lois Wood, Ph.,
Katherine Finley Wood, Ph.,
Myra Wood, Ph.,

Augusta, Ky.
Newark.
Sandusky.
Van Wert.
Meade, Neb.
Norwich, N. Y.
Jackson.
Zanesville.
Richwood.
Granville.
Granville.
Newark.
Lima.
Dayton.
Newark.
Morgan Park, Ill.
Omaha, Neb.
Pataktala.
New London.
Omaha, Neb.
Somerset.
Pekin, Ill.
Rangoon, Burma.
Union City, Pa.
Granville.
Toledo.
Toledo.
Granville.
Granville.
Ironton.
Cedar Springs, Mich.
Ning Yuan Fu, W. China
Rochester, N. Y.
Cleveland.
Granville.
Coshocton.
Williamsburg, Ky.
Wilmington.

Freshman Class.

Fern Asbury,
Ruth Harriet Atwell, Ph.,
Lois Richter Babt, Ph.,

Granville.
Zanesville.
Xenia.
Juliet Amos Barker, Ph.,
Gladys Marguerite Baughman, Ph.,
Alice Evangeline Beers, Sc.,
Mary Taphena Becks, Ph.,
Marjorie Pickard Benoy, Sc.,
Nellie May Bolin, Sc.,
Opal Marie Bowman, Ph.,
Helen Louise Buck, Ph.,
Dorothy Burns, Ph.,
Marie Antoinette Carroll, Ph.,
Lois Miller Carter, Ph.,
Evelyn Mae Cathcart, Ch.,
Letta Grace Clark, Ph.,
Freda Julia Clouse, Ph.,
Ethel Ellen Collett, Ph.,
Grace Cope, Ph.,
Clara Lorine Coulter, Ph.,
R. Maud Ditmars, Ph.,
Ann McCune Doster, Ph.,
Ina Robinson Doyle, Ph.,
Ruth Anderson Eldridge, Ph.,
Hazel Emma Fairbanks,
Mary Elizabeth Fuller, Ph.,
Anna Barbara Grey, Sc.,
Marjorie Bernice Hamilton, Ph.,
Margaret Marie Heinrichs, Ph.,
Helen Louise Hillier, Ph.,
Marguerite Hollinger, Ph.,
Grace E. Jefferson, Ph.,
Katherine Keefer, Ph.,
Rachel Hubbard Kendall, Sc.,
Flossie Locke, Ph.,
Eleanor Louise Mack, Sc.,
HeLEN MARY MELEY, Ph.,
Mabel Margaret Metz, Ph.,
Amy Erle Montgomery, Ch.,
Vesta Irene Moore, Sc.,
Ruth Apollonia Nickel, Ph.,
Lora Frederica Palmer, Ph.,
Ruth Eleanor Palmer, Ph.,
Lucile Pence, Ph.,
Minnie Elizabeth Porter,
Maybelle Rinehart, Ph.,
Cambridge.
Zanesville.
Granville.
Mt. Vernon.
Mt. Vernon.
Newark.
Wauseon.
Burlington, N. C.
Hamilton, N. Y.
Newark.
Duncans Falls.
Cleveland.
Mansfield.
East Liverpool.
Dayton.
East Cleveland.
Newark.
Granville.
Harveysburg.
Cambridge.
Franklin.
Holland, Mich.
Newark.
Evanston, Ill.
Kankakee, Ill.
Ramapatnam, India.
Newark.
Massillon.
Norwalk.
Cleveland.
Amarillo, Texas.
Wilmington.
Erie, Pa.
Momence, Ill.
Newark.
Newark.
Mankato, Minn.
Norwood.
Zanesville.
Mayville, N. Y.
West Jefferson.
Vevay, Ind.
Weston, W. Va.
HELEN WAKEMAN ROBINSON, Sc.,
MARY ADELE ROWLEY, Ph.,
NELL LAVAUGHN RUSSELL, Ph.,
MARGARET ELLEN SHARIDLOW, Ph.,
EDNA CLARE SHUMAKER, Ph.,
ZULEMA FRANCES STACY,
KATHERYN MARY STURGEON, Ph.,
HARRIETT THOMPSON SWETLAND, Ph.,
ALICE BRENN TITFF, Ph.,
RUTH EVELYN TRACY, Ph.,
ALTA IRENE WALKER, Ph.,
MARIE LOUISE WESTZ, Ph.,
RUTH WICKENDEN, Sc.,

Bellevue, Pa.
Chester, W. Va.
Newark.
Dayton.
Bowling Green.
Columbus.
Newark.
Mt. Vernon.
Wauwatosa, Wis.
Hubbard.
Toledo.
Kankakee, Ill.
Toledo.

Special Students.

GRACE ADELE BOND,
GLADYS IRENE BONSHIRE,
MARY DOROTHY BRISON,
GENEVIEVE HOLMES CATHCART,
MRS. E. E. FINLEY,
MARY SUSAN FLEMING,
LELA FLORENCE FOCH,
FLORENCE GILL,
FLORA G. HOOVER,
MABEL MEAD JONES,
A. HENRIETTA JORDAN,
ELVA MARGARET LINTON,
MARY LOIS LOCKHART,
GENEVA MAE LOWE,
HELEN ELIZABETH MYERS,
NELLIE MARIE POTTER,
BLANCHE PUTNAM,
ELIZABETH SPENCER,
EMILIE SPENCER,
FLORENCE EDGERTON STACY,
AUGUSTA ALBERTA WILGUSH,
VIRGINIA WILKINSON,

Granville.
Newark.
Millersport.
Cleveland.
Granville.
Granville.
Uniontown, Pa.
Millersport.
Granville.
Granville.
Newark.
Columbus.
Granville.
Granville.
Kenton.
Canton.
Granville.
Newark.
Granville.
Chicago, Ill.
Medina.
San Antonio, Texas.
Students in Doane Academy

Graduating Class, 1914.

EDWARD COREY BOGGS, Sc.,
RUSSELL ASHMORE CURRIN, Sc.,
ROBERT CLINTON GILMORE, Cl.,
EMMETT FITZPATRICK HARTSOCK, Sc.,
CHARLES HERBERT HASKINS, Sc.,
WILLIAM JACOB HASKINS, Cl.,
ALFRED JANNEY JOHNSON, Cl.,
MILLARD LEROY JORDAN, Sc.,
JAMES MACPHERSON, Cl.,
JOHN McCOWEN MARTIN, Ph.,
BASIL GOBIN MOMIN, Ph.,
ROBERT PAUL NIXON, Sc.,
JOHN CHRISTIANO ROSA, Cl.,
GORDON STIFLER SEAGRAVE, Cl.,
EDWIN OTTO TANNEHILL, Sc.,
EBENEZER SANDERS THRESHER, Sc.,
BERTHA MAUD BOGGS, Sc.,
MARGARET MARIE HEINRICHS, Sc.,
VIOLA MAY JOHNSON, Ph.

Senior Class.

LLOYD LARUE ANDERSON, Kane, Pa.
PHILIP LUKE BICKEL, Himeji, Japan.
ERNEST BODENWEBER, Cleveland.
FLOYD GILMORE BROWNE, Haskins.
HERBERT ASKREN CARR, Cable.
HAROLD LINGLE CLARK, Ikako, Africa.
HERVEY DOYLE CHANDLER, Cadiz.
ELMER DUNLAP CLOSMAN, Zanesville.
FRIEND MORRIS COCHRAN, Salama, W. Va.
ROGER D'RUYYTER FERRIS, Columbus.
CHARLES LAURENCE GOODELL, Granville.
FRED GREGG, Utica.
RUSSELL MORSE GRIFFETH, Granville.
JAMES STEVENS HAMMOND, Canandaigua, N. Y.
Junior Class.

Pittsburgh, Pa.
Granville.
Newark.
Port Clinton.
Kit Yang, China.
Granville.
Rangoon, Burma.
Sabina.
Fredericktown.
Granville.
Millersport.
Newark.
Granville.
Granville.
Granville.
Blue Rock.
Kenton.
Columbus.
Granville.
Kentung, Burma.

Granville.
Sciotoville.
Granville.
Fairmount, Ill.
Xenia.
McKeensport, Pa.
Canton.
Newark.
Dayton.
Pittsburgh, Pa.
Beloit, Wis.
Farmington, Ill.
Granville.
Sav-la-Mar, Jamaica.
Kurtics, Hungary.
Newark.
Shanghai, China.
Salt Lake City, Utah.

ThomAS John Hetherington,
John Walker Hendley,
William Zales Lynn,
Nelson Gadd Rupp,
David Harold Steicher,
Hereman Gear Spencer,
Parker Henry Tilbe,
Homer Lewis Webb,
James Oscar White,
Paul Canouf Wright,
Anna Mae Beers,
Dorothy Brison,
Mary Elizabeth Cari,
Mary Florence Carney,
Frances Isabel Carney,
Margaret Bancroft Colwell,
Wilma Huffman,
Helen Elizabeth Myers,
FlorencE Etta Oberrecht,
Heles DenEy Ray,
EtheL Lilla Young.
George Stuart Wolff,
Arthur Clarence Wyse,
Louise Elizabeth Hamblen,
Frances Elma Haskins,
Dorothy Katherine Leslie,
Dorothy Grace Martin,
Margaret Elizabeth Speicher,
Valcartier, Quebec, Can.
Fayette.
Granville.
Granville.
Congo Belge, Africa.
Ongole, India.
Kit Yang, China.

Second Year.

Charles Garner Ashbrook,
Carl H. Biefeld,
Stanley Kent Cheeseman,
William Clark,
Albert Porter Dible,
Robert Taylor Goodell,
Walter Clarence Laiblin Hilscher,
Herlin Gates Hopkins,
Hubert Rogers Hopkins,
Joshua Russell Keckley,
Chester Leroy Klein,
Donald Carlis McCollum,
John Teruyuke Matsuoka,
Harold Rees,
Josephine Darrow,

Granville.
Granville.
Wyoming.
Hamilton.
Wilmerding, Pa.
Granville.
Canton.
Chicago, Ill.
Chicago, Ill.
Newark.
Sandusky.
Granville.
Matsuyama, Japan.
Girard.
Granville.

First Year.

Harry Herrick Bawden,
Kenneth Harold Beck,
Joseph John Bolia,
Alfred David Bostick,
Arnold Wilmer Brubaker,
Stanu Catana,
Harry Paul Clouse,
Earl Montgomery Clawson,
Arthur B. Cox,
Samuel Furrrow,
George Herman Gleiss,
Elda Albert Hek,
Raymond McClelland Hunt,
William McKinley Judd,
Ernest Leon Lamb,
John Mitchell Lemmon,
James Simpson McGregor,

Granville.
Piqua.
Cioroin Nou, Roumania.
Canton.
South Point.
Galicia Mare, Roumania.
East Liverpool.
Indiana, Pa.
Newark.
St. Paris.
Garrick, Pa.
Oakmont, Pa.
Cincinnati.
Memphis, Tenn.
Piqua.
Glasgow, Scotland.
ALBERT WILSON MOMeyer,  
KENNETH EMMANUEL REIGHARD,  
JAMES HARDY VAWTER,  
WILLIAM ARTHUR VOGEL,  
DAVID WILLIAM WITTE,  
THELMA CLIPPSINGER,  
BEULAH YATES,

Denison University

New Matamoras.  
Akron.  
Indianapolis, Ind.  
Zanesville.  
Galion.  
Benton Harbor, Mich.  
Granville.

Electives.

EDWIN SUMNER CHAMBERLIN,  
GEORGE DAWKINS.  
Ewart RILEY DEUCHE,  
FRANK WILSON EDWARDS,  
Otho McKinley Elton,  
MAURICE BURGIT FINCH,  
JAMES William Fulton,  
GEORGE William Hazlett,  
WILLIAM Francis HUFSTADER,  
SINNEY JENKINS,  
ROBERT Hezekiah Kidd,  
Jesse Kirk Mears,  
WILLIAM Forrest Meredith,  
Jerome Buckingham Norpell,  
Stuart Hamilton Prescott,  
Owen Newton Price,  
Walter Buckley Roach,  
Rowland Alfred Sheets,  
Clifford Clare Sherrborne,  
Roy Francis Shinn,  
GEORGE Herbert Shorney,  
Allen Field Smith,  
MARK Bryan Smith,  
Harold Smucker,  
Hal Snyder,  
Foster Tyler,  
Mary Antoinette Carroll,  
Ethel Ellen Collett,  
Katherine Bitner Long,  
Amy Montgomery,  
Viola Selma Russell,

Dayton.  
Vandergrift, Pa.  
Deucher.  
Canton.  
Delta.  
Beaver Dam, Wis.  
Utica.  
Newark.  
Wyoming.  
Cambridge.  
Dayton.  
Gilbert.  
Cambridge.  
Newark.  
Cleveland.  
Chicago, Ill.  
Prome, Burma.  
Kankakee, Ill.  
Newark.  
Maplewood.  
Oak Park, Ill.  
Hinsdale, Ill.  
Chicago, Ill.  
Newark.  
Cambridge.  
Alexandria.  
Newark.  
Dayton.  
Newark.  
Newark.  
Pekin, Ill.
GRACE RUSSELL SEAGRAVE,
KATHRYN MARY STURGEON,
HARRIET THOMPSON SWETLAND,
ALICE BREEN TIFFT,
MARY FRANCES WALSH,
VIRGINIA WILKINSON,

Granville.
Newark.
Mt. Vernon.
Wauwatosa, Wis.
Cedar Springs, Mich.
San Antonio, Texas.
Students in the Conservatory of Music

DIPLOMAS CONFERRED JUNE, 1914.

HARRETT ELIZABETH HAGGARD, Voice.
MARION CHARLOTTE MILLER, Piano.

Graduate Students.
RUTH ESTHER ROGERS, Organ.
DOROTHY RUTH SWARTZ, Voice.

Seniors.

Constance Day Cheney, Piano.
Mabel Margaret Metz, Piano.
Edith Ruth Shreve, Voice.
Eva Lucille Wright, Organ.

Unclassified.

Bernard Adams.
Gladys Antoinette Anderson.
Juliet Barker.
Mary Taphena Beegs.
Huldah Louise Beuten Miller.
Inez Pearl Biddle.
Margaret Olive Black.
Gladys Irene Bonshire.
George M. Bowman.
Annabel Bradstreet.
Ernest Carhart Brelsford.
Mary Dorothy Brison.
Helen Louise Buck.
Jessie Veatuke Burns.
Mary Carl.
Lois Miller Carter.
Genevieve H. Cathcart.
Belford Pickering Cheadle.
Leta Grace Clark.
Sidney Collier.
Marion Collins.

Morgan Park, Ill.
Newark.
Union City, Pa.
Granville.

Newton Center, Mass.
Evanston, Ill.
Cambridge.
Mt. Vernon.
Coshocton.
Columbus.
Newark.
Newark.
Gambier.
Cincinnati.
Granville.
Millersport.
Burlington, N. C.
Piqua.
Newark.
Duncans Falls.
Cleveland.
Newark.
Mansfield.
Van Wert.
Newark.
Mrs. Clarence D. Coons,
Karl Emmett Crilly,
Paul W. Curtis,
Sara Josephine Darow,
Amy Daugherty,
Laura Alice Denzer,
Nellie Dick,
Maud Ditmars,
Leslie W. Dowd,
Florence Downend,
Ruth Anderson Eldridge,
Mrs. Harold W. Emswiler,
Helen Margaret England,
Elizabeth Evans,
Bessie Fleming,
Nellie Elliott Fleming,
HeLEN Gilmore,
HeLEN Goode,
Esther Leonora Graef,
Imogen Adams Hamblen,
Marjorie Hamilton,
Winifred Louise Hamilton,
Mrs. W. H. Harding,
Laura Cornelia Harris,
Miriam Lucile Hastings,
Irma Hauser,
Carrie Hook,
Hiram C. Hopkins,
Almonte C. Howell,
Mary K. Hupp,
Berenice Jackson,
Alfred Janney Johnson,
Phoebe Alice Johnson,
Grace Cyrilla Jones,
Mabel Mead Jones,
Mary Vashti Jones,
Elma I. King,
Grace Kussmaul,
Lois Lalla Langstaff,
Lois M. Lockhart,
Ethel Marie Lyon,
Mary Frances McDonald,
HELEN Moore,
Granville,
Newark,
North Fairfield,
Granville,
Mercer,
Coshocton,
Somerset,
Granville,
Granville,
Toulon, Ill.,
Franklin,
Granville,
Zanesville,
Granville,
Granville,
Newark,
Granville,
Newark,
Newark,
Granville,
Kankakee, Ill.,
Kankakee, Ill.,
Johnstown,
Manlius, N. Y.,
Akron,
Chicago, Ill.,
Somerset, Pa.,
Granville,
El Cristo, Cuba,
Somerset,
Newark,
Granville,
Mead, Neb.,
Columbus,
Nito, Japan,
Zanesville,
Granville,
Newark,
Richwood,
Granville,
Charleston, W. Va.,
Dayton,
Pataskala.
Ethin Neff Morris,
Emma O'Daniel,
Helen O'Neal,
Wayne C. Overturf,
Ethel Maye Phillips,
Vivian Bertha Perry,
Minnie Elizabeth Porter,
Lottie L. Pratt,
Edward Watkins Putnam,
Helen Denny Ray,
Marjorie Pettig,
Ann Roberts,
John Millard Rockwood,
Nelson Gadd Ruff,
Selma V. Russell,
Grover Sayre,
Ruth Elizabeth Shaffer,
Rowland A. Sheets,
Mark B. Smith,
Esther Smyth,
Elizabeth Ann Spencer,
Emelie Spencer,
Gwladys Spencer,
Florence Edgerton Stucy,
Harriet Thompson Swetland,
Lucile Summers,
Gladys Thompson,
Blanche Trost,
Kenneth Lyon Ullman,
William Arthur Vogel,
Marie Louise Wertz,
Mary Eva Wilson,
Katherine Finley Wood,
Myra Wood,
Mary L. Wright,
Mrs. William E. Yates,
Herbert R. Young,
Students in Summer School

UNA ACKLEY, 
GERTRUDE ALLSWORTH, 
EDITH ANDERSON, 
CHARLES WESLEY ANDREWS, 
MILDRED GAYNELLE BAILEY, 
BONNIE BAKER, 
HOWARD BAKER, 
LAVERDA BAKER, 
FLOYD BARRETT, 
JOHN SAMUEL BARRINGTON, 
PEARL BAUGHMAN, 
SUSIE BELT, 
CLEO BETTS, 
LIBBIE BETTS, 
HORACE ROBERT BIGGS, 
INA BISHOP, 
PEARL BISHOP, 
RUSSELL IRVIN BLAUSER, 
Ada Boole, 
EDWARD COREY BOGGS, 
GRACE ADELE BOND, 
LEONA BORROWAY, 
LILLIAN ALVERETTA BROWN, 
GORDON JACOB BURKE, 
LEON MANVILLE BUTLER, 
ELIZABETH CARNEY, 
MARY FLORENCE CARNEY, 
FRANCES ISABEL CARNEY, 
HERVEY DOYLE CHANDLER, 
LILLIE CHAPPUIES, 
FRANCES CHEEK, 
HAROLD LINGLE CLARK, 
EARL M. CLAWSON, 
STUART COLLETT, 
BURTON COLWILL, 
CLARA CRAIG, 
SYLVIA CROOKS,

Granville. 
Marengo. 
Newark. 
Baltimore. 
Mansfield. 
Marengo. 
Johnstown. 
Johnstown. 
Granville. 
Granville. 
Johnstown. 
Johnstown. 
Stryker. 
Stryker. 
Granville. 
Newark. 
Newark. 
Basil. 
Glenford. 
Sattenapalle, India. 
Granville. 
Newark. 
Monroeville. 
Sunbury. 
Toledo. 
Granville. 
Granville. 
Granville. 
Cadiz. 
Stryker. 
Johnstown. 
Ikoko, Congo Belge, Af. 
East Liverpool. 
Johnstown. 
Newark. 
Granville.
LUCILE CROUSE,
POSEY CULLEN,
MARY DANISON,
EVAN HOWARD DAVIES,
MOLLIE DAVIS,
LEWIS DENTY,
MABEL DEWITT,
A. P. DIBLE,
EDWARD DICKERSON,
RUTH DICKERSON,
R. MAUD DITMARSS,
HARRY DOTSON,
GRACE ELLEN DOUCH,
BLANCHE DUFF,
LOLA DUNLAP,
FLORENCE DUSTHIMER,
ISAAC ENGLISH,
NELLIE EVANS,
ELSA FOSTER,
ZADIE FREAS,
MARIAN FRYE,
CLEMENT FRYMUTE,
GOLDA GATEWOOD,
CLARICE GEIGER,
G. L. GEIGER,
SADIE GIFFIN,
ANNA GILMER,
HELEN GILMORE,
HETTIE R. GORSUCH,
LEONA GRIFFITH,
BESSIE GUTRIDGE,
ESTELLA GUTRIDGE,
EDITH HAGUE,
LOUISE ELIZABETH HAMBRON,
BESSIE HANKINSON,
MARY HANKINSON,
FLORENCE HANNAH,
ETHEL HARRIS,
GRACE HATCH,
LOLA HELSER,
OSCAR HELSER,
SAMUEL C. HEWITT,
Johnstown.
Wheatcroft, Ky.
Chandlersville.
Granville.
Newark.
Croton.
Centerburg.
Wilmerding, Pa.
Outville.
Outville.
Outville.
Granville.
Newark.
Mt. Vernon.
Granville.
Pataskala.
Newark.
Zanesville.
Granville.
Hebron.
Alexandria.
Centerburg.
Newark.
Thornville.
Chandlersville.
Pataskala.
Pataskala.
Hanover.
Basil.
Granville.
Johnstown.
Granville.
Brownsville.
Newark.
Newark.
Granville.
Granville.
Granville.
New Philadelphia.
Croton.
Thornville.
Thornville.
Pataskala.
ANNUAL CATALOGUE

Ruth Hirst, Newark.
Ada Holler, Newark.
Ruth Holler, Newark.
Flora G. Hoover, Granville.
Orma Horton, Newark.
Elsie Howard, Pataskala.
Lula Howard, Pataskala.
Maurice Howard, Pataskala.
Joseph Reason Hoy, Newark.
Mary Ide, Newark.
Eva Iden, Newark.
Marie Jackson, Newark.
Lesta Jakeway, Pataskala.
Bessie James, Newark.
Ellen James, Newark.
Alice Johnson, Johnstown.
Thomas Johnson, Granville.
Viola May Johnson, Johnstown.
Dorothy Jones, Granville.
Julia Jones, Granville.
Roy H. King, Newark.
Paul A. Knoedler, Pataskala.
Robert Kootz, Newark.
Orville Kreager, Johnstown.
H. C. Littick, Granville.
Scott Kreager, Granville.
Dale Lloyd, Johnstown.
William M. Locke, Granville.
Herman N. Loughman, Newark.
W. F. McBride, Newark.
Emma McClain, Newark.
Wave McClurg, Newark.
Emma McCullough, Newark.
Mae McIntosh, Newark.
Eleanor Louise Mack, Erie, Pa.
Francis M. Marriott, Delaware.
Clara Masheter, Thurston.
Florence Mason, Newark.
Ollie Mason, Newark.
V. E. Mauger, Newark.
Myrtle Miller, Newark.
Verna Miller, Newark.
Dwight Munson Moore, Zanesville.

Newark.
Newark.
Granville.
Newark.
Pataskala.
Pataskala.
Newell, W. Va.
Hanover.
Glenford.
Newark.
Johnstown.
Granville.
Granville.
Nashport.
Johnstown.
Cincinnati.
Granville.
Granville.
Thornville.
Zanesville.
St. Louisville.
Pleasant Valley.
Delaware.
Pleasant Valley.
Marengo.
St. Louisville.
Toboso.
Nevada.
Granville.
Johnstown.
Pataskala.
Newark.
Erie, Pa.
Delaware.
Thurston.
Newark.
Newark.
Basil.
Newark.
Jacksonstown.
Zanesville.
Mildred Moore,
Verna Morrison,
Martha Mulvey,
Ernest Ray Myers,
Paul Nash,
Edith Nethers,
Nellie Nethers,
Iva Nichols,
Esther Nixon,
Nora Norrell,
Vera Norris,
Beatrice Elizabeth O'Neal,
Edgar Wesley Owen,
Esther Palmer,
Fannie Patrick,
Edith Margaret Philbrook,
Hula Phillips,
Blanche Porter,
Myra Powell,
Lottie Pratt,
Mabel Pratt,
Anna Margaret Ramey,
David Edward Reese,
Dean Roberts,
Harold L. Rogers,
Margaret Rogers,
Mary Sanderson,
Emily Evelyn Sayre,
Opal Gutherie Schumacher,
Irene Selby,
Virtue Shannon,
Alice Sibley,
Cornelia Spencer,
Mabel Stewart,
Petrana Stamenova,
Sarah Marie Stimson,
Gertrude Sutton,
Charlie Suvyong,
Clara Taylor,
Edith Thompson,
Elsie TImmons,
Augusta Tippitt,
Hettie Titus,

Zanesville.
Thornville.
Zanesville.
Baltimore.
Centerburg.
St. Louisville.
Newark.
Urbana.
Granville.
Newark.
Granville.
Kenton.
Beverly.
Pataskala.
Centerburg.
Johnstown.
Centerburg.
Nashport.
Chillicothe.
Johnstown.
Granville.
Newark.
Massillon.
Utica.
Newark.
Malta.
Alexandria.
Granville.
Granville.
Utica.
Newark.
Dayton.
Granville.
Pataskala.
Granville.
Monroeville.
Johnstown.
Shanghai, China.
Newark.
Newark.
Kirksville.
Johnstown.
St. Louisville.
Bessie Twining, Granville.
Kenneth Lyon Ullman, Granville.
Rachel Van Dyke, Granville.
Vinel Varner, Thornville.
Emily Weaver, Toboso.
Mary Weaver, Hanover.
Ardon Kirk Wheeler, St. Louisville.
Ruth Wheeler, Zanesville.
Augusta Alberta Wilgush, Marengo.
Edith Williams, Medina.
Esther Williams, Granville.
Marie Williams, Newark.
Chauncey E. Wilson, Granville.
Eva Wilson, Johnstown.
Anna Wiseman, Granville.
Helen Dorothy Wolcott, Granville.
Robert William Worst, Johnstown.
Alice Wright, Granville.
Bessie Wright, Ironton.
Ethel Wright, Conover.
Evelyn Wright, Dayton.
Lloyd D. Wright, Granville.
James Lawrence Wright, Johnstown.
Lora Smythe Wright, Centerburg.
Saburo Yasumura, Fredericksburg.
Helen Yingling, Johnstown.
Marie Young, Granville.
Granville.
## Summary of Student Attendance

<table>
<thead>
<tr>
<th>Category</th>
<th>Graduate Students</th>
<th>Seniors, Granville College</th>
<th>Shepardson College</th>
<th>Juniors, Granville College</th>
<th>Shepardson College</th>
<th>Sophomores, Granville College</th>
<th>Shepardson College</th>
<th>Freshmen, Granville College</th>
<th>Shepardson College</th>
<th>Special Students, Granville College</th>
<th>Shepardson College</th>
<th>Total Enrollment</th>
<th>Electives</th>
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<tbody>
<tr>
<td>Total</td>
<td>5</td>
<td>35</td>
<td>27</td>
<td>62</td>
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<td>27</td>
<td>68</td>
<td>113</td>
<td>59</td>
<td>21</td>
<td>22</td>
<td>583</td>
<td>138</td>
</tr>
</tbody>
</table>

Students in Conservatory of Music: 107
Total enrollment, exclusive of all repetitions: 583
Enrollment in Summer School: 193
Schedule of Courses by Hours

All odd numbered courses belong to the first semester, even numbered courses to the second. Laboratory courses, extending over two hour periods, are listed under both hours and marked with a star.

A. CLASSES MEETING AT 7:30 A. M.

(1) Mon., Tues., Wed., Thurs.
Political Science 5
Latin 1-2, section 1
Spanish 1-2
German 1-2, section 1
*Civ. Engineering 5, 11
*Zoology 5-6, 7-8

(3) Tues., Wed., Thurs.
*Botany 5-6, 11-12

B. CLASSES MEETING AT 8:30 A. M.

(1) Mon., Tues., Wed., Thurs.
Mathematics 3-4
Political Science 2
Greece 1-2
French 1-2, section 1
German 3-4, section 1
*Civ. Engineering 5, 11

(3) Tues., Thurs.
History 9-10
English 16a
*Chemistry 3-4, 13-14
*Civ. Engineering 1-2, 12
Geography 1, 6
*Zoology 5-6, 7-8
*Botany 5-6, 11-12

(4) Mon., Fri.
*Botany 7-8
### C. CLASSES MEETING AT 9:30 A. M.

<table>
<thead>
<tr>
<th>Day</th>
<th>Mathematics 5, 8</th>
<th>Greek 3-4</th>
<th>Latin 1-2, section 2</th>
<th>*Physics 3-4, section 1</th>
<th>Chemistry 1-2, 1a-2a</th>
<th>*Civil Engineering 3</th>
<th>Zoology 3-4</th>
<th>(3) Wed., Fri.</th>
<th>English 13-14</th>
<th>French 7-8</th>
<th>Geology 23</th>
<th>*Botany 3-4</th>
<th>Music 11-12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mon.</strong></td>
<td>Philosophy 1-2</td>
<td>Mathematics 10</td>
<td>History 1-2, section 1</td>
<td>English 1-2, section 2</td>
<td>English 3-4, section 2</td>
<td>Civil Engineering 6</td>
<td>Geography 2-3</td>
<td><strong>Wed., Thurs.</strong></td>
<td>Mathematics 1b-2b every day.</td>
<td></td>
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</tr>
</tbody>
</table>

### D. CLASSES MEETING AT 10:30 A. M.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Mon.</strong></td>
<td>Philosophy 4</td>
<td>Mathematics 1-2, section 3</td>
<td>Political Science 9-10, 12</td>
<td>Greek 8</td>
<td>English 8</td>
<td>Geography 2-3</td>
<td>Zoology 15-16</td>
<td>Music 7-8</td>
<td><strong>Wed., Thurs.</strong></td>
<td><strong>Chemistry 1a-2a</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>(4) Mon., Tues., Thurs.</strong></td>
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<td>(&lt;)</td>
<td>(&lt;)</td>
<td><strong>Public Speaking 1-2, section 1</strong></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

### E. CLASSES MEETING AT 1:30 P. M.

<table>
<thead>
<tr>
<th>Day</th>
<th>French 1-2, section 2</th>
<th>German 1-2, section 2</th>
<th>*Physics 3-4, section 2</th>
<th>*Chemistry 9-10</th>
<th>Civil Engineering *4, 7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mon.</strong></td>
<td>Education 3-4</td>
<td>Political Science 7</td>
<td>Greek 6</td>
<td>Latin 5-6, 7-8</td>
<td>German 9-10</td>
</tr>
<tr>
<td><strong>(2) Tues., Thurs., Fri.</strong></td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
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<td>(&lt;)</td>
</tr>
<tr>
<td><strong>(3) Tues., Thurs., Fri.</strong></td>
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<td>(&lt;)</td>
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<td>(&lt;)</td>
<td>(&lt;)</td>
</tr>
<tr>
<td><strong>(4) Tues., Thurs., Fri.</strong></td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
</tr>
<tr>
<td><strong>(5) Tues., Thurs., Fri.</strong></td>
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<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
</tr>
<tr>
<td><strong>(6) Tues., Thurs., Fri.</strong></td>
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<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
</tr>
<tr>
<td><strong>(7) Tues., Thurs., Fri.</strong></td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
</tr>
<tr>
<td><strong>(8) Tues., Thurs., Fri.</strong></td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
<td>(&lt;)</td>
</tr>
</tbody>
</table>
(3) Mon., Wed.
Latin 9-10, 11-12
English 17
Geology 25-26
Astronomy 1-2
*Botany 9-10 (Monday 2:30)
Music 13-14
Public Speaking 7-8

F. CLASSES MEETING AT 2:30 P. M.

(1) Mon., Tues., Wed., Thurs.
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*Physics 3-4, section 2
*Civil Engineering 4

(3) Mon., Wed.
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*Chemistry 9-10
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(2) Tues., Thurs., Fri.
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Greek 8
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*Physics 5-6
*Chemistry 5-6
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(4) Tues., Thurs.
Civ. Engineering 13

(5) Tues., Fri.
*Zoology 1-2, lab. section 1
*Botany 1-2, lab. section 1
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