GENERAL STATEMENTS AS TO THE COURSES OF INSTRUCTION.

The Johns Hopkins University will commence its twenty-fifth year of instruction on October 1, 1900. The work will go forward in these divisions:

The Graduate department, in which arrangements are made for the instruction of advanced students in the higher studies of literature and science;

The Undergraduate or Collegiate department, in which students receive a liberal education leading up to the degree of Bachelor of Arts;

The Medical department, in which students who have already received a liberal education are received as candidates for the degree of Doctor of Medicine, and in which Doctors of Medicine may attend special courses.

In other words, arrangements are made for the instruction of the following classes:

1. Graduate students and other qualified persons desiring to continue for one or more years their liberal education, and possibly to become candidates for the degree of Doctor of Philosophy;
2. Graduate students and other qualified persons wishing to proceed to the degree of Doctor of Medicine;
3. Doctors of Medicine who desire to follow special courses of lectures and laboratory work;
4. Undergraduates looking forward to the degree of Bachelor of Arts;
5. Special students who have not received an academic degree and are not candidates for a degree, but who desire to follow special courses of instruction in literature and science.

The medical department is open to women; the other departments are not.

An academic building, called McCoy Hall, in commemoration of its donor, contains the library and the class-rooms in language, literature, history, and philosophy.

Laboratories are provided in Chemistry, Physics and Electricity, Geology and Mineralogy, and in the Biological Sciences (Anatomy, Physiology, Zoology, and Pathology).

Seminaries are organized in the Greek, Latin, French, German, English, Sanskrit, and Semitic languages, and also in History and Political Science. There are various scientific associations and journal clubs which hold regular meetings.

The Library contains ninety-four thousand volumes, part of which are kept in the central reading room, while the remainder of the books are distributed according to their subjects in the different laboratories and seminaries.

The Library of the Peabody Institute contains one hundred and thirty-five thousand volumes. These books are selected with reference to the wants of scholars. They are well chosen, well arranged, well bound, and well catalogued, and are accessible daily from nine in the morning until half-past ten in the evening.

The proximity of Baltimore to Washington enables the students to visit the libraries, museums, and scientific foundations of the Capital.

The academic year extends from the first of October to the fifteenth of June.

The charge for tuition is one hundred and fifty dollars per annum in the graduate and undergraduate departments, and two hundred dollars in the medical department.

The Annual Register, giving full statements as to the regulations and work of the University, and separate announcements of the Medical Courses, will be sent on application.
FACULTIES OF PHILOSOPHY AND MEDICINE.

DANIEL C. GILMAN, LL. D.,
President.

J. WILLIAMS LORD, M. D.,
Clinical Professor of Dermatology.

THOMAS C. GILCHRIST, M. B., M. R. C. S.,
Clinical Professor of Dermatology.

HARRY J. BERKELEY, M. D.,
Clinical Professor of Psychiatry.

NICHOLAS MURRAY, A. B., LL.B.,
Professor of Pathology.

EDWARD H. SPEEXER, Ph. D.,
Associate Professor of Greek and Latin.

ETHAN A. ANDREWS, Ph. D.,
Associate Professor of Biology.

KIRBY F. SMITH, Ph. D.,
Associate Professor of Latin.

SIDNEY SHEEKS, Ph. D.,
Associate Professor of Political Economy.

JOHN M. VINCENT, Ph. D.,
Associate Professor of History.

M. D.,
Dean of the College Faculty.

FACULTIES OF PHILOSOPHY AND MEDICINE.

J. ELLIOTT GILPIN, Ph. D.,
Associate in Mathematics.

GEORGE C. KINDE, Ph. D.,
Associate in Romance Languages.

EDWARD C. ARMSTRONG, Ph. D.,
Associate in Romance Languages.

CHARLES R. BARDEEN, M. D.,
Associate in Anatomy.

HARRY W. CUSHING, M. D.,
Associate in Surgery.

GEORGE W. DOBIE, M. D.,
Associate in Obstetrics.

N. ERNEST DORSBURY, Ph. D.,
Associate in Physics.

DUNCAN S. JOHNSON, Ph. D.,
Associate in Botany.

WILLIAM JONES, Ph. D.,
Associate in Physiological Chemistry and Toxicology.

PHILIP OGDEN, Ph. D.,
Associate in Romance Languages.

S. EDWIN WHITEHALL, Ph. D.,
Associate in Physiographic Geology.

NORMAN MACL. HARRIS, M. B.,
Associate in Bacteriology.

WILLIAM G. MACCALLUM, M. D.,
Associate in Pathology.

OTTO G. RAMAY, M. D.,
Associate in Gynecology.

JOHN B. WHITEHEAD, Jr., A. B.,
Associate in Applied Electricity.

HARRY L. WILSON, Ph. D.,
Associate in Latin.

S. EDWIN WHITEHALL, Instructor in Drawing.

FRANK R. SMITH, M. D.,
Instructor in Medicine.

H. BARTON JACOB, M. D.,
Instructor in Medicine.

OLIVER L. FASSIG, Ph. D.,
Instructor in Meteorology.

GUY CARLETON LEE, Ph. D.,
Instructor in History.

HUGH H. YOUNG, M. D.,
Instructor in Gout and Ulcerous Diseases.

MURRAY P. BRUSH, Ph. D.,
Instructor in Romance Languages.

THOMAS McCRAE, M. B.,
Instructor in Medicine.

MORRIS C. SUPPSE, Ph. D.,
Instructor in Latin.

HENRY McC. KNOWLES, Ph. D.,
Instructor in Anatomy.

PERCY M. DAWSON, M. D.,
Instructor in Physiology.

ETROKE L. OVI, M. D.,
Instructor in Pathology.

MERVIN T. SULLER, Ph. D.,
Instructor in Anatomy.

HERBERT S. WEST, Ph. D.,
Instructor in Anatomy.

CHARLES P. EMERSON, M. D.,
Instructor in Medicine.

J. EUSTACE SHAW, Ph. D.,
Instructor in Italian.

WILLIAM M. MACKENZIE, Instructor in Physical Training.

In addition, there are a number of Assistants in the laboratories.
PROGRAMMES FOR 1900-1901.

The following courses in literature and science are offered for the academic year which begins October 1, 1900. They are open to properly qualified young men, according to conditions varying somewhat in each department.

MATHEMATICS.

**Advanced Courses.**

Professor Newcomb will guide the work of any well-prepared students who wish to pursue the subjects of Theoretical Astronomy and Celestial Mechanics, especially on the practical side. Special training in advanced mathematics and facility in, as well as taste for, logarithmic computations are essential.

Professor Morley.

Theory of Functions (Advanced Course).
*Twice weekly, through the year.*

Geometry (Advanced Course).
*Three times weekly, through the year.*

Mathematical Seminary.
*Weekly, through the year.*

Dr. Cohen.

Elementary Theory of Functions.
*Twice weekly, through the year.*

Lie's Theory of Transformation Groups.
*Twice weekly, through the year.*

Theory of Numbers.
*Three times weekly, first half-year.*

Advanced Differential Equations.
*Twice weekly, second half-year.*

**Undergraduate Courses.**

**Major Course.**

Determinants.
*Four hours weekly, until October 19.* Professor Hulburt.

Differential and Integral Calculus (special topics).
*Four hours weekly, October 23 to December 21.* Professor Hulburt.

Elementary Theory of Equations.
*Four hours weekly, January 2 to February 1.* Professor Hulburt.

Elements of Projective Geometry.
*Four hours weekly, February 5 to March 29.* Professor Hulburt.

Analytic Geometry of Three Dimensions.
*Four hours weekly, April 11 to the end of the year.* Professor Hulburt.

**Minor Course.**

Analytic Geometry.
*Four hours weekly, until December 21.* Professor Hulburt.

Differential and Integral Calculus.
*Four hours weekly, January 2 to the end of the year.* Professor Hulburt.

For Candidates for Matriculation.

Algebra (special topics); Solid Geometry; Plane Trigonometry; Analytic Geometry (straight line and loci).
*Four hours weekly, through the year.*

**Elective Course.**

Differential Equations.
*Two hours weekly, through the year.* Dr. Cohen.

This course presents the elementary principles of Ordinary and Partial Differential Equations, and affords to students of Physics, Astronomy, and Electricity a necessary working knowledge of the subject. Much time is devoted to the solution of problems.

PHYSICS.

**Advanced Courses.**

Professor Rowland will lecture on—

Electricity and Magnetism.
*Four hours weekly, through the year.*

These lectures constitute one-half of a complete course, which extends through two years. In the year 1901-1902 the lectures will be on Heat Conduction and Physical Optics.

Professor Ames will direct the Physical Seminary, which meets once a week through the year, and to which only the most advanced students are admitted. During the first-half of the year, the subject of the Fundamental Experiments of Physics will be considered in the Seminary; and that of Physical Optics during the second.

Professor Ames will also lecture on—

Thermodynamics and Electrical Oscillations.
*Two hours weekly, through the year.*

These lectures are designed to be introductory to Professor Rowland's course, and students should take them during their first graduate year. They form part of a systematic course on Mathematical Physics, which extends through three years.

For all the advanced lectures a thorough knowledge of analytic geometry of three dimensions and of differential equations is necessary.

Dr. Dorsey will hold recitations and conferences on the above lectures.
*Once a week, through the year.*

Dr. Dorsey will also direct the work in the astronomical observatory.

Mr. Whitehead will lecture on—

Special Topics in Applied Electricity.
*Two hours weekly, through the year.*

This course will be accompanied by tests and laboratory experiments.

Dr. L. A. Bauer will give a special course of lectures on the Magnetism of the Earth.

For courses in Geological Physics and in Physical Chemistry, the programmes in Geology and in Chemistry may be consulted.

**Laboratory Work.**

Advanced students are expected to give as much of their time as possible to laboratory work. This consists at first in performing experiments which are designed to familiarize them with laboratory methods and with the use of instruments for exact measurements. When sufficient experience of this kind has been acquired, they undertake, under the guidance of the instructors, some research designed to be of permanent value.

**Journal Meetings.**

The instructors meet once a week with the advanced students for the reading and discussion of the current physical journals.

Collegiate Courses.

These courses are designed for undergraduates and for those graduate students who wish to extend their knowledge of Physics, but are not prepared for more advanced work.

First Year (Minor Course.)

1. Lectures and recitations on General Physics. 
Four hours weekly, through the year. Professor Ames.

2. Laboratory Work.
Three hours weekly, through the year. Dr. Bliss and assistants.

This course does not assume that the student has had any previous acquaintance with physics; but he is supposed to know how to use logarithms and to have had thorough instruction in plane trigonometry.

Second Year (Major Course.)

1. Lectures and recitations on the following subjects:
Mechanics, including some simple problems in the motion of rigid and elastic bodies.
Elementary Thermodynamics.
Electricity and Magnetism.
Physical Optics.
Four hours weekly, through the year. Professor Ames.

2. Laboratory Work.
Five hours weekly, through the year. Professor Ames and Dr. Bliss.

This course presupposes at least one year's previous work in Physics, and an accurate knowledge of analytic geometry of two dimensions and the calculus. It will be in the main a continuation and extension of the First Year Course, special attention being given to the description and discussion of the experiments on which the science of Physics rests.

The laboratory work of both courses accompanies the lectures throughout the year, and is largely quantitative, being designed to impress the principles of the subject and to impart experimental skill. In the second year, therefore, problems presenting greater difficulties, either experimental or theoretical, are assigned. Written reports of the work are required of all the students.

CHEMISTRY.

The courses in Chemistry are intended to meet the wants (1) of graduate students who make Chemistry their specialty, or who select it as one of their subordinate subjects for the degree of Doctor of Philosophy; and (2) of undergraduate students, who study Chemistry for general training, or as a preliminary to the study of medicine. The first and second years' courses cover the ground of General Chemistry, as far as it is possible to do so in the time occupied. Together they form the full course designed for undergraduates. Graduates, including those who intend to enter the Medical School, who have not done an equivalent amount of work, will follow such parts of these courses as may seem desirable.

Advanced Work for Graduate Students.

Laboratory.

Under the direction of Professors Remsen and Morse and Associate Professor Jones. Daily, except Saturday, from 9 a.m. to 5 p.m.

The work will consist in a thorough study of analytic methods in making typical preparations especially of compounds of carbon, in practice in the methods of physical chemistry, and in carrying on investigations.

Lectures.

(a) Compounds of Carbon, by Professor Remsen. Five times weekly, through the year.
(b) Historical Topics, under the direction of Professor Remsen, by advanced students. About twelve lectures, second half-year.

This work, while serving to familiarize students with chemical literature, is intended to aid them in acquiring the art of presenting subjects in the form of lectures before audiences. All those who intend to become teachers of Chemistry, are expected to take active part in the work.

(c) Physical Chemistry, by Associate Professor Jones. Three times weekly, through the year.

(d) The Elements of Physical Chemistry, by Associate Professor Jones. Twice weekly, first-half year.

Journal Meetings.—The instructors and advanced students will meet weekly, on Mondays at 9 a.m., and at such other hours as may be appointed, for the purpose of hearing reports on the principal articles contained in the journals of Chemistry.


Collegiate Courses.

Minor Course.

(a) Introduction to General Chemistry.
Lectures and recitations, four hours weekly, through the year, by Professor Renoif and Dr. Gilpin.

(b) Laboratory Work.
Five to six hours weekly, through the year, under the direction of Professor Renoif and Dr. Gilpin.

No previous knowledge of Chemistry is required. The class-room work is based on Renssen's Chemistry (Briefer Course), and covers the field of inorganic chemistry, as far as possible. The last twenty class-room exercises give a sketch of organic chemistry, particularly for the benefit of those students whose study of chemistry is confined to the minor course. In the laboratory the student repeats the experiments performed in the class-room, and, in addition, has some practice in simple qualitative and quantitative analysis. Each student is required to keep a note-book of his work.

Major Course.

(a) Advanced Inorganic Chemistry.
Lectures and recitations, four hours weekly, until Christmas, by Professor Morse.

(b) Chemistry of the Compounds of Carbon.
Lectures and recitations, four hours weekly, from January 2 to the end of the year, by Professor Morse.

(c) Laboratory Work.
Five to six hours weekly, through the year, under the direction of Professor Renoif.

The class-room work in inorganic chemistry, in the major course, is confined to a study of the metallic elements and to analytical chemistry. The laboratory work until January is systematic qualitative analysis; from January to the end of the year, the making of inorganic and organic preparations. The compounds to be made are so chosen that the student may become acquainted with as many classes and methods as possible. The text-books used are Renssen's Inorganic Chemistry (advanced course), Renoif's Organic Chemistry, and Renoif's Inorganic Preparations.
GEOLOGY.

The instruction in Geology is under the direction of Dr. Wm. Bullock Clark, Professor of Organic Geology, assisted by Dr. Harry Fielding Reid, Associate Professor of Geological Physics, Dr. Edward B. Mathews, Associate Professor of Mineralogy and Petrography, Dr. George B. Shattuck, Associate in Physiographic Geology, and Dr. Oliver L. Fassig, Instructor in Meteorology.

An important course of lectures will be given by Mr. Bailey Willis, of the United States Geological Survey, Lecturer on Stratigraphic and Structural Geology, and briefer courses by Professor Cleveland Abbe, of the United States Weather Bureau, Lecturer on Meteorology, and Dr. L. A. Bauer, of the United States Coast and Geodetic Survey, Lecturer on Terrestrial Magnetism.

Courses are offered to both graduates and undergraduates. In the case of graduate students, the work is arranged to meet the wants (1) of those who desire to make Geology their principal subject for the degree of Doctor of Philosophy, and (2) of those who wish to select certain courses in Geology for one or both of their subordinate subjects, the major subject being taken in another department. Special arrangements may also be made by graduate students whose time is limited, or who desire to devote their attention to particular courses without reference to a degree.

In the case of undergraduate students, Geology may be taken either as one of the major or as one of the minor courses for the degree of Bachelor of Arts.

The courses in Geology consist of lectures, laboratory and field work, and conferences upon topics of current literature. Great importance is attached to laboratory training as a part of the geological course, and facilities are given for daily work from 9 a.m. to 5 p.m.

LECTURE COURSES.

1. General Geology, by Professor Clark and Dr. Shattuck. Four times weekly.
2. Paleontology, by Professor Clark. Twice weekly.
3. Historical Geology, by Professor Clark. Twice weekly.
4. Experimental Geology, by Associate Professor Reid. Twice weekly, first half-year.
5. Geological Physics, by Associate Professor Reid. Twice weekly, second half-year.
6. Exploratory Surveying, by Associate Professor Reid. Twice weekly, for one-third year.
7. General Mineralogy, by Associate Professor Mathews. Four times weekly.
8. Advanced Mineralogy, by Associate Professor Mathews. Three times weekly.
9. Petrography, by Associate Professor Mathews. Three times weekly.
11. Climatology, by Dr. Fassig. Twice weekly, for one-third year.
12. Stratigraphic and Structural Geology, by Mr. Willis. Twice weekly, for one-third year.
13. Meteorology, by Professor Abbe.

LABORATORY WORK.

Laboratory courses are arranged to accompany the lectures, while advanced or special students will be given the opportunity to carry on fuller investigations upon either described or new materials.

CONFERENCES AND STUDENT LECTURES.

In order that the advanced students may be kept in touch with the most recent investigations in the science, conferences are held at which the leading journals in geology are reviewed by the students under the direction of the instructors. The conferences take place bi-weekly.

In order that the advanced students may also have the experience necessary for the successful preparation and delivery of class-room lectures, a course upon some phase of geology is arranged, a special topic being assigned to each student. The lectures take place bi-weekly, alternating with the conferences.

FIELD WORK.

The area of the State of Maryland includes, notwithstanding its comparatively small size, a remarkable sequence of geological formations. The ancient rocks of the earth's crust, as well as those still in the process of deposition, are found, while between these wide limits there is hardly a geological epoch which is not represented. As a result, most excellent facilities are afforded for a study of the various geological horizons.

GEOLOGICAL CAMP.

Arrangements are made annually for a geological encampment of several weeks after the close of the class-room lectures at the University.

GEOLOGICAL LABORATORY AND LIBRARY.

The Geological Laboratory is situated in Hopkins Hall, and comprises over thirty rooms, large and small. Here are placed the library, apparatus and collections, which are accessible to the student daily, from 9 a.m. to 5 p.m.

In accordance with the custom of the University, those books relating to the work of the geological department are given into its charge, the books of general reference being retained in the University Library.

The library of the geological department contains a good representation of the leading journals and works of reference upon geological subjects. It is greatly enriched by the Williams, Lewis and Abbe libraries. Extensive series of topographical and geological maps likewise form a portion of the library, and these are constantly increasing in number.

APPARATUS AND COLLECTIONS.

The collections of the department consist primarily of a large amount of important material brought together from Maryland and adjacent States. It represents all the horizons of the State, being especially rich in crystalline rocks, and in Cretaceous and Tertiary fossils. Some of this material has been already described, while much awaits further study.

Among the most important of the special collections are:

The Williams collection of rocks and minerals, the Lewis collection of rocks and thin sections, the Krantz collection of fossils, the Hill collection of rocks and characteristic fossils from the Cretaceous formations of Texas, and the Stürts, the Lehmann, and the Allen collections.
THE BIOLOGICAL SCIENCES.

Graduate Courses.

ZOOLOGY AND BOTANY.

The work in Zoology and Botany is directed by Dr. W. K. Brooks, Professor of Zoology, assisted by Dr. E. A. Andrews, Associate Professor of Biology, Dr. D. S. Johnson, Associate in Botany, Dr. B. W. Barton, Lecturer in systematic Botany, and other assistants.

1. Professor Brooks will conduct the following courses, with the assistance of Dr. Andrews and Dr. Johnson.

   Advanced laboratory work in Zoology.
   Daily, throughout the year.
   History of Zoology.
   Weekly, from January to the end of the year.
   Zoological Journal Club.
   Weekly, until April 1, for the discussion of the current literature of Zoology.
   Zoological Seminary.
   Weekly, from the beginning of the session, until April 1.

2. Dr. Andrews will give a course of twelve lectures on Protoplasm, in November and December.

3. Dr. Johnson will conduct the following courses:
   The Comparative Morphology of the Vegetable Kingdom.
   Two lectures and two laboratory exercises weekly, throughout the year.
   Physiology and Histology of Plants.
   Two exercises a week, throughout the year.
   Botanical Journal Club.
   Weekly, throughout the year.
   Botanical Seminary.
   Weekly, throughout the year.

THE BIOLOGICAL SCIENCES.

Graduate Courses.

ZOOLOGY.

Dr. Andrews will give a course of twelve lectures on Proto-

Biology.

Dr. Johnson will conduct the following courses:

1. Dr. Johnson will conduct the following courses:

   Advanced laboratory work in Zoology.
   Daily, throughout the year.
   History of Zoology.
   Weekly, from January to the end of the year.
   Zoological Journal Club.
   Weekly, until April 1, for the discussion of the current literature of Zoology.
   Zoological Seminary.
   Weekly, from the beginning of the session, until April 1.

2. Dr. Andrews will give a course of twelve lectures on Proto-

3. Dr. Johnson will conduct the following courses:

   The Comparative Morphology of the Vegetable Kingdom.
   Two lectures and two laboratory exercises weekly, throughout the year.
   Physiology and Histology of Plants.
   Two exercises a week, throughout the year.
   Botanical Journal Club.
   Weekly, throughout the year.
   Botanical Seminary.
   Weekly, throughout the year.

THE BIOLOGICAL SCIENCES.

Graduate Courses.

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   Two lectures and two laboratory exercises weekly, throughout the year.
   Physiology and Histology of Plants.
   Two exercises a week, throughout the year.
   Botanical Journal Club.
   Weekly, throughout the year.
   Botanical Seminary.
   Weekly, throughout the year.

THE BIOLOGICAL SCIENCES.

Graduate Courses.

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   Advanced laboratory work in Zoology.
   Daily, throughout the year.
   History of Zoology.
   Weekly, from January to the end of the year.
   Zoological Journal Club.
   Weekly, until April 1, for the discussion of the current literature of Zoology.
   Zoological Seminary.
   Weekly, from the beginning of the session, until April 1.

2. Dr. Andrews will give a course of twelve lectures on Proto-

3. Dr. Johnson will conduct the following courses:

   The Comparative Morphology of the Vegetable Kingdom.
   Two lectures and two laboratory exercises weekly, throughout the year.
   Physiology and Histology of Plants.
   Two exercises a week, throughout the year.
   Botanical Journal Club.
   Weekly, throughout the year.
   Botanical Seminary.
   Weekly, throughout the year.
The following courses are offered:

1. The conduct of Autopsies. Professor Welch and Dr. MacCallum.
2. Demonstrations in Gross Morbid Anatomy. Professor Welch and Dr. MacCallum.
3. Bacteriology. Professor Welch and Dr. Harris. October 1 to Christmas. This is a practical laboratory course familiarizing the student with bacteriological technique and with the characters of the important pathogenic micro-organisms.
4. Lectures on Infection and Immunity. Professor Welch. Once or twice a week, October 1 to Christmas.
6. Pathological Histology and Pathological Anatomy. Professor Welch and Drs. MacCallum, Opie, and Marshall. January 2 to June 1. Laboratory course, three afternoons a week.
7. Lectures on Special Topics in Pathology. Once a week, January 2 to June 1. Professor Welch.
8. Recitations. Once a week, throughout the year. Professor Welch.
9. Special course in Bacteriology for Physicians. Three afternoons a week, May and June. Dr. Harris.
10. Special course in Pathology for Physicians. Three afternoons a week, May and June. Dr. MacCallum.
11. Lectures for Physicians attending Graduate Courses. Once a week, May and June. Professor Welch.
12. Advanced Work and Special Research. Opportunity is afforded those suitably trained to pursue advanced work and special research in Pathological Anatomy and Histology, Experimental Pathology, and Bacteriology. For these purposes the pathological laboratory is well equipped with the necessary apparatus and material.

For more detailed information consult the Annual Announcement of the Johns Hopkins Medical School.

Herbaria.

Captain John Donnell Smith, of Baltimore, has kindly consented to allow students to avail themselves of the opportunities offered in his private herbarium, which includes some 78,000 sheets of specimens from all parts of the world, and which is especially rich in its representation of the Flora of the United States and of the American tropics. He has also offered to special students the privilege of consulting his extensive botanical library.

Students of Botany have access also to the Schimper collection of European phanerogams, the Fitzgerald collection of mosses, and the local collection of the Baltimore Naturalists' Field Club.

Library Facilities.

A working library of monographs and periodicals for students of Zoology and Botany is contained in the Biological Laboratory of the University. A similar library for students of Physiology, Anatomy, and Pathology is provided in the building of the Medical School.

The general library of the University receives all the chief journals of general science, and the transactions of the leading learned societies of the world.

The library of the Peabody Institute, within five minutes' walk of the University, contains complete sets of many of the chief biological journals, of the proceedings of learned societies, and other works of reference.

In the libraries of the Medical and Chirurgical Faculty of Maryland and the Johns Hopkins Hospital a large number of medical periodicals are accessible to members of the University.

The University Circulars and the Hospital Bulletins provide for the prompt publication of abstracts of researches, or parts of researches, as soon as they are completed and ready for publication.

From time to time extensive memoirs of investigations in Zoology are issued by the University Press in a series of Illustrated quarto Morphological Monographs.

Collegiate Instruction.

The regular undergraduate instruction in normal biology extends over two years. The first year constitutes a minor course and may be taken separately.

Special students, who are not graduates or matriculants, may enter the courses for undergraduates, on giving satisfactory evidence of fitness.

In addition to valuable training of the powers of observation and thought, the courses in Biology present the science of life in its most fundamental aspects, and thus serve as a basis for the study of the phenomena of human existence dealt with in History, Political Economy, Psychology, and Ethics. They are open to all students, no previous training being required; and they will be found useful to those looking forward to a career in the ministry, to those designing to enter the medical profession, and to all who are interested in Natural History. In addition to the regular courses, the excursions of the Naturalists' Field Club, which are open to all, afford opportunities for a less formal study of Nature.

Minor Course.

(Required of all who wish to enter the medical school.)

General Biology.

Five to six hours laboratory work and four lectures and exercises weekly, through the year. Associate Professor Andrews, with the aid of Dr. Barton and laboratory assistants.

In the laboratory, the student studies, with the aid of the microscope and dissections, the life-history and structure of certain animals and plants; the skeletons of man and animals; the development of the frog and the fowl; and the elements of systematic botany. In the lecture room, fundamental facts and laws are emphasized.

Major Course.

This course is designed for those who intend to teach zoology; for those who look forward to advanced studies in zoology; for those who desire an acquaintance with the elements of zoology, and with comparative anatomy and embryology, as a part of a liberal education, and for those students who, having completed the minor course in biology, preliminary to medicine, desire a wider acquaintance with the animal kingdom.

1. Laboratory work in Zoology, Comparative Anatomy, and Embryology. Six hours a week throughout the year. Professor Brooks and Dr. Andrews and laboratory assistants.
2. Elementary Zoology. Two lectures a week until April 1. Professor Brooks.
3. Elementary Botany. Two lectures a week until April 1. Dr. Johnson.
4. Embryology. From April 1 to the end of the session. Associate Professor Andrews.

Systematic Botany.

An introduction to systematic Botany, given by Dr. Barton in April and May, is open to any student, without previous training, as an equivalent part of the course in free-hand drawing.
GREEK.

Greek Seminary.

Professor Gildersleeve will conduct the Greek Seminary, the plan of which is based on the continuous study of some leading author or some special department of literature.

The Seminary consists of the Director, Fellows, and Scholars, and such advanced students as shall satisfy the Director of their fitness for an active participation in the work by an essay, a critical exercise, or some similar test of attainments and capacity. All graduate students however, may have the privilege of attending the course.

During the next academic year the study of The Attic Orators will constitute the chief occupation of the members. There will be two meetings a week during the entire session. Especial attention will be paid to the development of language and style and to the antique canons of aesthetic criticism. The rhetorical works of Dionysios of Halikarnassos will be studied in connection with this course.

The student should possess the text of the orators (Teubner ed.), and the rhetorical works of Dionysios of Halikarnassos, the first volume of which has been edited by Usener and Radermacher. Blass's Geschicht der Attischen Beredsamkeit is an important auxiliary, Volkmann's Rhetorik will be found serviceable, and Jebb's Selections from the Attic Orators may be recommended as an introduction to the study. The various editions of select speeches of Demosthenes by Sandys are also helpful.

Advanced and Graduate Courses.

1. Professor Gildersleeve will also conduct a course of Practical Exercises in Greek, consisting chiefly in translation at dictation from Greek into English and English into Greek, two meetings a week, from the beginning of the session to the first of January.

2. He will lecture on Greek Elegiac and Iambic Poetry, with illustrative readings, once a week after January 1.

3. He will also lecture on select chapters of Greek Syntax in its relation to style.

4. Associate Professor Miller will conduct readings auxiliary to the main study of the graduate students in Greek, twice a week throughout the session.

Notice of other courses is reserved.

Undergraduate Courses.

For Candidates for Matriculation.

Homer, Iliad (book vi); Herodotus (book vii); Sight Reading; Prose Composition.

Three hours weekly, through the year. Associate Professor MILLER.

Minor Course.

Lysias, vii, xii.

Three hours weekly, first half-year. Associate Professor SPIEKER.

Private Reading: Xenophon, Hellenica (book 1).

Plato, Apology; Euripides (one play).

Three hours weekly, second half-year. Associate Professor SPIEKER.

Private Reading: Homer, Odyssey (books 1, 9, x).

Prose Composition.

Weekly, through the year. Associate Professor SPIEKER.

Major Course.

Demosthenes, Oratio in Leptinum.

Three hours weekly, first half-year. Associate Professor SPIEKER.

Private Reading: Æschylus, Prometheus.

Selections from the elegiac, melic, and iambic poets; Sophocles (one play).

Three hours weekly, second half-year. Associate Professor SPIEKER.

Private Reading: Aristophanes (one play).

Prose Composition.

Weekly, through the year. Associate Professor SPIEKER.

Elective Course.

Justin Martyr.

Two hours weekly, first half-year. Associate Professor SPIEKER.

LATIN.

Latin Seminary.

Associate Professor Kirby Flower Smith will conduct the Latin Seminary, the plan of which is similar to that followed in Greek. The department of literature to which it is proposed to devote especial attention during the next academic year, is the Latin Historians, and the centre of this work will be Livy and Tacitus. Two meetings a week throughout the year will be devoted to the critical interpretation of these authors, to various auxiliary studies, and to the reading of papers prepared by members of the Seminary.

It is advisable for students to read in advance as much as possible of Livy and Tacitus, and to provide themselves with complete texts of Cesar (Kühler, Teubner, Leipzig, 1895), Livy (Weisenborn-Müller, Teubner), Tacitus (Halm, 4th edition, Teubner), the "Historiorum Romanorum Fragmenta," edited by Peter (Teubner, 1883), Sallust (Jordan, Weidmann, Berlin, 1887), and Catullus, Tibullus, and Propertius (Haupt-Vahlen, 5th edition, Leipzig, Hirzel, 1885).

Advanced and Graduate Courses.

1. During the first half-year, Dr. Smith will lecture once a week on the Roman Historians, beginning with the earliest period.

2. Throughout the year he will lecture once a week on the Roman Elegy and Epigram.

3. He will also conduct a Journal Club, which will meet regularly to report and discuss recent publications in the field of Classical Philology.

4. Dr. H. L. Wilson will lecture once a week during the first half-year on Latin Epigraphy.

5. Once a week during the second half-year he will conduct a course in the interpretation of Latin Inscriptions.

6. During the second half-year Dr. Sutphen will lecture once a week on the Sermo Cotidianus.

7. He will also conduct a class, for advanced students, in the rapid reading of the Latin Historians.

The schedule given above is subject to additions and modifications.

Undergraduate Courses.

For Candidates for Matriculation.

Cicero, De Senectute; Sallust, Catilina.

Two hours weekly, first half-year. Dr. Sutphen.

Ovid, Heroides; Vergil, Eclogues.

Two hours weekly, second half-year. Dr. Sutphen.
Prose Composition.
Weekly, through the year. Dr. Sutphen.

Minor Course.

Livy (two books).
Three hours weekly, first half-year. Dr. Sutphen.

Private Reading: Caesar, Bellum Civile (book i); Cicero, De Amicitia.

Horace (selections).
Three hours weekly, second half-year. Dr. Sutphen.

Private Reading: Ovid, Fasti (selections); Vergil, Aeneid (books IX, X, XI).

History of Roman Literature (with reading of selected passages).
Weekly, through the year. Associate Professor Smith.
[For students in Group VI, as a substitute for Prose Composition.]

Prose Composition.
Weekly, through the year. Dr. Sutphen.

Major Course.

Juvenal; Martial.
Three hours weekly, first half-year. Dr. Wilson.

Private Reading: Pliny (select Letters).
Plautus; Terence.
Three hours weekly, second half-year. Dr. Wilson.

Private Reading: Plautus, Miles Gloriosus.

Prose Composition.
Weekly, through the year. Dr. Wilson.

Elective Course.

Selections from Tacitus.
Two hours weekly, second half-year. Dr. Wilson.

ORIENTAL SEMINARY.

Biblical Philology.

Professor Johnston. Friday, 10 a.m.

2. Elementary Hebrew.
Professor Haupt and Mr. Blake. Monday, 2–4 p.m.

3. Hebrew (Second Year's Course). Selected Chapters of the Historical Books.
Dr. Grimm. Two hours weekly, through the year.

4. Exercises in Reading Hebrew at Sight, and in Reading Unpointed Hebrew Texts.
Professor Johnston. Two hours weekly, through the year.

5. Prose Composition (Hebrew, Arabic, and Assyrian).
Professor Haupt. Wednesday, 3 p.m.

6. Comparative Semitic Syntax.
Professor Haupt. Wednesday, 2 p.m.

Professor Haupt. Tuesday, 2–4 p.m.

8. Post-Biblical Hebrew: Selections from the Mishnah (Abot, Abodah zarah) and the Talmud (Shabbath).
Dr. Rosenau. Friday, 2 p.m.

9. The Talmud (lectures).
Dr. Rosenau. Monday, 5 p.m., during the first half-year.

10. Medieval Jewish Philosophers (lectures).
Dr. Rosenau. Monday, 5 p.m., during the second half-year.

SANSKRIT AND COMPARATIVE PHILOLOGY.

The following courses, in charge of Professor Bloomfield, may be stated under two heads:

A. Indian Philology.

1. Vedic Seminary: The Rig-Veda, in relation to the religion and institutions of the early Indian period.
Weekly (1½ hours), through the year.

2. Selections from the ritualistic Sutras, along with the hymns recited in the course of their practices.
Weekly, through the year.

Twice a week, first half-year.

4. The elements of Vedic Philology: Vedic grammar, metres, and interpretation of selected hymns.
Weekly, second half-year.

5. Beginners' course in Sanskrit: grammar (Whitney's Sanskrit Grammar), and interpretation of an easy text (Lanman's Reader).
Twice a week, through the year.
B. Linguistic Science and Comparative Grammar of the Indo-European Languages.

Weekly, through the year.

7. Comparative Grammar of Greek, Latin, German and Sanskrit: The history of Indo-European noun-formation.
Weekly, through the year.

8. Introduction to the Lithuanian language and literature.
Weekly, through the year.

No knowledge of Sanskrit is required for any of the courses under B. Course 6 sketches briefly the history of the science of language; presents a concise account of the ethnological history of the Indo-European (Aryan) peoples; deals with the fundamental question of growth and change in language; and finally treats of the origin of language. Course 7 is intended as an introduction into the most elementary methods and results of the comparative grammar of the more important Indo-European languages. Course 8 is recommended especially to students of the Teutonic languages.

ENGLISH.

A.

Professor Bright will conduct the following courses:

I. English Seminary.

Graduate students are admitted to the Seminary as soon as they have satisfied initial requirements for independent research. The discipline of the Seminary is designed to impart training in scholarly methods of dealing with literary and linguistic problems. Study and investigation are bestowed upon selected periods of literary history, upon departments of literature extending through successive periods, and upon the works of important writers, separately or in groups. Usually there is a change of subject each half-year.

During the academic year beginning October 1, 1900, the Seminary will be engaged in the study of the Literature of the Fourteenth Century.

The meetings of the Seminary will occupy four hours a week. Tuesdays and Thursdays, 3–5 p.m.

II.

Lectures on Anglo-Saxon and Middle English Grammar. Thursday, 12 m., first half-year; Wednesday, 4 p.m., second half-year.

The principal works to be studied in connection with these lectures are: F. Kluge, Geschichte der englischen Sprache, Strassburg, Treibner, 1899; Ferd. Dieter, Law- and Formenlehre der altgermanischen Dialekte, Leipzig, Reisland, 1898; Max Kaluza, Historische Grammatik der englischen Sprache, Berlin, Felber, 1900; L. Morschach, Mittelenglische Grammatik, Halle, Niemeyer, 1896; K. Luick, Untersuchungen zur englischen Lautgeschichte, Strassburg, Treibner, 1896; ten Brink and Kluge, Chaucers Sprache und Verskunst, Leipzig, Tauchnitz, 1899.

III.

The Interpretation of Texts: (a) The Anglo-Saxon version of Bede's Ecclesiastical History of England. Monday, 11 a.m., first half-year; (b) The Anglo-Saxon poem Guthlac. Monday and Tuesday, 12 m., second half-year.

Students will be required to provide themselves with Schipper's edition of Bede (Bibliothek der angelsächsischen Prosae. Band 4. Leipzig, Wigand, 1897-9).

IV.

The English Journal Club (fortnightly, two hours), for reports on the current journals, reviews of new books, and the presentation and discussion of original papers on linguistic and literary subjects.

V.

An introductory course in Anglo-Saxon, with Bright's Anglo-Saxon Reader as the text-book. Monday and Wednesday, 12 m.

B.

Professor Browne will give the following courses in English Literature:

VI.

A general course covering the whole field, from the 7th to the 19th century. The study, of course, is synoptical; but emphasis is laid upon the chief writers and most important periods. Arnold's Manual of English Literature is used as a text-book. Wednesday and Thursday, 1 p.m.

VII.

A course in the writers of the 12th, 13th, and 14th centuries (from the Peterborough Chronicle to Chaucer). The texts are read from Morris and Skeat's Specimens, the students beginning with the easier and proceeding to the more difficult. In addition to the knowledge thus acquired of an interesting and formative period of our literature, this introduction to the early forms of the language will be found a helpful prodromus to the study of Anglo-Saxon. Monday and Tuesday, 1 p.m.

VIII.

A course in the writers of the Elizabethan period. The origin and development of the English drama will be traced from its earliest recorded beginnings down to Shakespeare, the representative of its highest perfection, and in its decadence in the later Jacobean dramatists. Tuesday, 12 m., first half-year.

IX.

A course in the literature of the eighteenth century, Tuesday, 12 m., second half-year.

X.

The Early Scottish Poetry from Barbour (A. D. 1350) to Lyndsay (A. D. 1550) will be studied by the aid of a chrestomathy especially prepared for this class. A course of historical and critical lectures will be given concurrently with the readings. Friday, 12 m.

XI.

Lectures for advanced students on the Transformations of English Prose, and on another subject to be announced later. Wednesday, 11 a.m.

C.

Professor Greene will give the following courses in Rhetoric and in English Literature:

XII.

Rhetoric and English Composition. Theory, based upon textbooks, lectures, and discussions; critical study of prose writers;
frequent practice in writing. **Monday, Tuesday, and Wednesday, 12 m.**

**XIII.**

English Literature. Outline history, with special study of the more important writers. **Monday, 9 a. m., Tuesday, 10 a. m., Wednesday, 11 a. m.**

The study of two contrasted periods:—(a) From the Restoration to the death of Pope (1660—1744); the work will centre upon the writings of Dryden, Steele, Addison, Swift and Pope. (b) From the publication of the Lyrical Ballads to the death of Coleridge (1798—1834); the work will centre upon the writings of Wordsworth, Coleridge, Keats, Shelley, and Byron. **Twice weekly.**

**NOTE—Courses i—iv, xi are for graduate students. Courses vi and vii constitute the "English Minor," and v, viii, ix, and x the "English Major," of Group vii.**

Course xii is prescribed for all college students during their first year; xiii is prescribed for the second year; and xiv is elective in the third year.

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**GERMAN.**

**German Seminary.**

The German Seminary will be conducted by Professor Wood. During the first half-year the period in German Literature from Goethe's Italian journey (1786) to the death of Schiller (1805) will be studied. The subjects to receive special attention will be: Goethe's period of pronounced classical sympathies; Schiller's influence upon Goethe and their contemporaries in the direction of subjectivism in poetry; and Goethe's subsequent return to the national point of view in later works. During the second half-year the Parzival of Wolfram von Eschenbach will be studied. The third, fifth, and ninth books, with other selected passages, will be read, and Wolfram's relation to the Grail legend discussed. Particular attention will be paid to the epic style in Parzival, as compared with Titurel and with Willehalm. The Seminary will meet three times weekly, through the year.


The Germanic Society, which is composed of the Director of the Seminary, the Instructors, and the Graduate Students in German, will meet fortnightly on Friday, 4—6 p. m. The members will report upon the contents of current journals, and present, in turn, papers upon subjects connected with the work of the year, or assigned for investigation.

**Graduate Courses.**

Professor Wood will conduct the following courses:

1. Gothic and the Elements of Comparative German Grammar. **Twice weekly, through the year.**


2. History of German Literature in the Eighteenth Century. **Twice weekly, first half-year.**

   After a review of the Second Silesian literary movement, the critical reforms at the close of the Seventeenth century will be considered in detail, after which a series of representative Eighteenth century works will be read, extending to the publication of Goethe's Götz von Berlichingen (1773). French and English influence will be considered, as an accessory, but the point of view for the whole course will be the inner development of German literature and style in the periods named.

3. History of Metre in Middle High German. Lectures. **Twice weekly, second half-year.**

   The metrical forms transmitted from Old High German will first be considered, after which the foreign influence and the resulting complexity of verse forms in the first classical period of German Literature (12th—13th century) will be studied. The history of ascertainable facts, and the collection and consideration of a trustworthy body of metrical material, derived from the monuments themselves, will be the chief object in view, rather than a formal discussion of modern theories; but examples and illustrations will, wherever possible, be drawn from later periods.

Dr. B. J. Vos, Associate Professor of German, will give the following courses:

4. Middle High German: Introductory Course. **Twice weekly, first half-year.**


5. Kudrun: Interpretation and Criticism. **Twice weekly, first half-year.**

   Students should provide themselves with Symons's edition of Kudrun (Halle, 1883).

6. Modern Dutch: Introductory course. **Twice weekly, second half-year.**

   It is expected that an outline of the grammar, in mimeographed form, will be provided for the class. Material for reading will be drawn from contemporary literature.

Dr. T. S. Baker will give the following course:

7. The History of the German novel in the Seventeenth Century. **Weekly, through the year.**

   The development of the native German novel will be chiefly studied in the works of Grimmeleishausen, while Mochelrosch will serve as a basis for the study of foreign influences.

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**Undergraduate Courses.**

**For Candidates for Matriculation.**

**Elementary German:**


Three hours weekly, through the year. Associate Professor Vos.

This course is intended for students who offer Greek for matriculation. Those who follow it are required to take Minor A in their groups.

**Minor Course.**

Class A:


Two hours weekly, through the year. Associate Professor Vos.


Weekly, through the year. Associate Professor Vos.

Prose Composition.

Weekly, through the year. Professor Wood.
Private Reading: Gutzkow, Zopf und Schwert.

Class B:
Otis, Elementary German; Brandt, German Reader; von Moser, Der Bibliothekar; von Wildenbruch, Das edle Blut; Goethe, Egmont; Prose Composition (E. S. Buchheim, Elementary German Prose Composition, Oxford, 1893); Whitney, German Grammar.

Four hours weekly, through the year.

Minor Course B is intended only for students who have matriculated in Greek, and have fully met at entrance the matriculation requirements; for such students, it absolves the requirements in German. Other students must absolve Minor A.

Major Course.


Two hours weekly, through the year.

History of German Literature: Classical Period.

Weekly, through the year. Associate Professor Vos.

Prose Composition.

C. A. Buchheim, Materials for German Prose Composition, Parts I and II, London, 1894.

Weekly, through the year. Professor Wood and Mr. Hofmann.

Private Reading: Schiller, Wallenstein's Tod.

Elective Course.

Contemporary Literature, in Rapid Readings.

Works by Hauptmann, Sudermann, Ebner-Eschenbach, and von Wildenbruch are read

Two hours weekly, through the year.

This course is intended for students who have completed the equivalent of a Minor.

Special Courses.

Courses 1 and 2 are open to graduate students who already possess an elementary knowledge of German and wish to acquire greater fluency in reading. The first is intended for students in Languages, History, and Economics; the second, for students in the Natural Sciences. Successful completion of either course is accepted as an equivalent of the reading knowledge of German required of candidates for the degree of Doctor of Philosophy.

1. Historical German.

Sailer, Die Heimat der Indogermanen; Hoffmann's Historische Erzählungen; Lange, Athen im Spiegel der aristophanischen Komödie.

Weekly.

2. Scientific German.

Dippold, Science German Reader; von Helmholtz, Über Goethe's naturwissenschaftliche Arbeiten; Cohn, Über Bakterien.

Weekly.

This course is open also to undergraduate students who have completed the equivalent of a Minor in German.

3. Oral Exercises in German.

Weekly. Mr. Hofmann.

This course is intended especially for students in the departments of modern languages, who lack an extended vocabulary and sufficient familiarity with written and spoken German. A thorough knowledge of the elements is presupposed.


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ROMANCE LANGUAGES.

Advanced Courses.

I. With second- and third-year students:

Professor Elliott.


The Fables of Marie de France; Work on Manuscripts.


(c). Lectures on Dante. Weekly.


Professor F. M. Warren.

(e). French Lyric Poetry in the Middle Ages. Twenty lectures in January and February.


Dr. Hugo P. Thieme.

(g). French Versification. Twelve lectures.

Associate Professor Marden.

(h). Spanish Seminar. Twice weekly.

The Poems of Pernon Gonzales. Construction of a critical text based on the Escorial manuscript and several unpublished fragments of the poem.

Professor Brush.

(j). Old French Readings. Class A. Two hours weekly.

With occasional lectures on the manners and customs of the Middle Ages: 1. Chateau Life; 2. The Tourney; 3. Hunting and Falconry.

First Semester: Early French Lyrics.


Second Semester: The Romans d'Aventure.


This course will be adapted to students of the English Seminary who are studying fourteenth century literature.

II. With first-year students:

Professor Elliott.


Passy, Les sons du français; Beyer, Fransisckische Phonik; Sweet, Primer of Phonetics; Victor, Élemente der Phonik; Michaelis and Passy, Dictionnaire Phonétique de la Langue Française.
Associate Professor MARDEN.

(e). Old Spanish Readings. Weekly.
    Gorna, Lingua e Letteratura Spagnuola delle Origini, Milan, 1888; Lidford, Los Cantares del Mio Cid, Lund, 1895; Janer, Poetas Castellanos anteriores al Siglo XV, Madrid, 1884.


Dr. BRUSH.

(e). Old French Phonology and Morphology. Three hours weekly.


Dr. OGDEN.

(g). The development of French literary criticism, especially in the nineteenth century. Weekly.

Dr. KEIDEL.

(h). 1. Methodology of the Romance Languages.
   2. Early Romance Printers. Weekly, first half-year.
   (i). Paleography. Weekly, second half-year.

Dr. SHAW.

(j). The origins of Italian Prose Literature. Weekly.

Undergraduate Courses.

French: Second Year (Major) Course.

Literature. Three hours weekly. Dr. OGDEN.
    First half-year. Nineteenth Century Prose—DeVigny: Cinq Mers (Heath); Gautier: Le Capitaine Fracasse (Jenkins); Balzac: Eugénie Grandet (Holt); Loti: Sélections—Le Mariage de Loti; Le Roman d’un Spahi; Mon frère Yves, &c. (Holt); Zola: La Dëbëdele (Heath). Short talks and discussion of nineteenth century literature.
    Second Semester. Classic Drama—Corneille: Horace (Holt); Racine: Phèdre (Heath); Molière: Tartuffe (Heath), Le Misanthrope (Heath). Short talks and discussion of the classic drama.
   Lectures on French life and thought, based on the subject-matter read. Private Reading.

Prose Composition. Chardenal: Advanced Exercises (Hachette).

French: First Year (Minor) Course: Class A. Four hours weekly. Dr. OGDEN.

Distinctive periods of French Literature (seventeenth and nineteenth centuries). Illustration drawn from the classic and modern schools. Lectures and Recitations.
   Texts:—Corneille: Le Cid (Heath); Molière: Les Femmes Savantes (Heath); Hugo: Hernani (Heath); Sandeau: Mile de la Seiglière (Heath).

Contemporary French Drama.
   Texts:—Dunau: L’Étoile des Femmes; Scribe and Legouvé: La Bataille des Domes (Holt); De Musset: On ne Badine pas avec l’Amour (Hachette); Rostand: Cyrano de Bergerac (Holt).

Prose Composition and Syntax.
    Texts:—Bevier: Grammar, with Exercises by Logie, and prose based on French texts.

Private Reading.

French: First Year (Minor) Course: Class B.

For undergraduates who have matriculated in Greek, and for graduates beginning French. Four hours weekly. Mr. CRITCHLOW.

Texts:—Joyce: Minimum French Grammar and Reader (Holt); Malot: Sans Famille (Spier: Holt); Erckmann-Chatrian: Le Consulat de 1813 (Heath); Mérimée: Colombo (Heath); Legouvé and Labiche: La Cigale chez les Fourmis (Heath); Angier and Sandean: Le Grandeur de M. Poirier (Heath); Pailleron: Le Monde où l’on s’ennuie (Heath).

French: Elementary Course.

For students who have completed the equivalent of a Minor. Twice weekly. Dr. BRUSH.

Texts:—Hercy’s Contes et Nouvelles Modernes (Jenkins); Angier: La Pierre de Touche (Ginn); Balzac: Le Curé de Tours (Heath); Scribe: Le Verre d’Eau (Macmillan); Hugo: Sélections (Holt); Gautier, Jetatura (Heath); Storr: Hints on French Syntax (Heath).

Spanish: Minor Course.

Adapted for beginners. Four hours weekly. Associate Professor MARDEN.

Texts:—Manning’s Spanish Grammar, New York (Holt & Co.); Exercises in grammar and prose composition; Matteke’s Spanish Reader, Boston (Heath & Co.); Alarcón, El Capitán Ferén, Boston (Heath & Co.); Tamayo, Un Drama Nuevo, New York (Jenkins); Pérez Galdós, Doña Perfecta, Boston (Ginn & Co.); Clarke, Spanish Literature, New York (Macmillan & Co.).

Spanish: Elective Course.

Adapted for beginners. Two hours weekly. Associate Professor MARDEN.

Texts:—Edgren’s Spanish Grammar, Boston (Heath & Co.); DeHaan’s Cuentos Modernos, Boston (Heath & Co.); Palacio Valdés, José, Boston (Heath & Co.).

Italian: Minor Course.

Adapted for beginners. Four hours weekly. Dr. SHAW.

Texts:—Grandgent: Italian Grammar (Heath); Grandgent: Italian Composition (Heath); Bowen: Italian Reader (Heath); Snell: Primer of Italian Literature (Clarendon Press); Fozzagari: Dante’s Curriculum (Galli); De Amici’s: La Vita Militare; Barrill: La Donna di Pioche (Groves); Goldoni: Il Barbaro benevolo (Clapin: Castor); Un Curioso Accidente (Clapin: Castor); Alfieri: Orazi (Clapin: Castor); Tasso: First two cantos of Gerusalemme Liberata (Clarendon Press); Dante: Inferno (Bibl. Naz. Econ. Lemmennich); Boccaccio: Decameron (Bibl. Class. Econ. Lemmennich, Sonzogno, Milan).

Italian: Elective Course.

Adapted for beginners. Two hours weekly. Dr. SHAW.

Texts:—Grandgent: Italian Grammar (Heath); Bowen: Italian Reader (Heath); Del Testa: L’Oro e l’Orpello (Heath); Sarao: All’Eru, Sentinella (Galli); Barrill: Una Note Bibliarca (Jenkins); Verga: La Storia di una Cugina (Treves); Capuana: Homo (Treves); Dante: Inferno (Lemmennich).
Commercial Courses.

Spanish: Conversation. Adapted for beginners and open also to persons not connected with the University. Twice weekly. Mr. Gould.
Text:—Ybarra: Practical Method in Spanish, Boston (Heath & Co.)

Spanish: Commercial Course. Adapted for beginners and open also to persons not connected with the University. Twice weekly. Mr. Gould.
Text:—Garner's Short Spanish Grammar, New York (Amer. Book Co.)

HISTORY, POLITICS, AND ECONOMICS.

History.

Professor Herbert B. Adams will conduct the following courses:
   Alternate Friday evenings. For the staff and graduates only.
2. History of Greek and Roman Politics.
   Two hours weekly, through the year. For graduates.
3. Educational History and Class Conference.
   One hour weekly, through the year. For graduates.
   Two hours weekly, through the year. For undergraduates; open to graduates.
   [Part of "Major History."]

Associate Professor John Martin Vincent.
1. Historical Research.
   Two hours weekly, first half-year. For graduates.
2. History of Historical Writing.
   Two hours weekly, second half-year. For graduates.
3. Historical Conference for the study of practical problems in historical research.
   Two hours fortnightly, through the year. For graduates.
4. European History.
   Two hours weekly, through the year. [Part of "Major History."]
5. Historical Politics.
   Two hours weekly, through the year. [Part of "History-Economics."]

Dr. Bernard C. Steiner, Associate in History:
American Political and Constitutional History.
Two hours weekly, through the year. For undergraduates; open to graduates.
[Part of "Politics Major."]

Dr. J. C. Ballagh, Associate in History.
1. Classical and Early European History.
   Four hours weekly, through the year. For undergraduates. ["History Minor."]
2. Southern History.
   One hour weekly, through the year. For graduates.
   One hour weekly, through the year. For graduates.

Dr. Guy Carleton Lee, Instructor in History:
1. English Political and Constitutional History.
   Two hours weekly, through the year. For undergraduates. [Part of "Politics Major."]
2. Introduction to the Study of Law.
   One hour weekly, through the year. For graduates and college seniors.
3. Historical Jurisprudence.
   One hour weekly, through the year. Open to graduates and law students only.
4. Public Speaking and Class Debates.
   Six hours weekly, through the year. For undergraduates.

Dr. James Schouler, of Boston, will give a short course of lectures in the spring of 1901 on American Historical Biography.
Open to the entire University and the general public.

Politics.

Associate Professor W. W. Willoughby:
1. History of Medieval Political Philosophy.
   Two hours weekly, first half-year. For graduates.
2. History of Modern Political Philosophy.
   Two hours weekly, second half-year. For graduates.
   Two hours weekly, through the year. For graduates.
4. Political Conference.
   Two hours fortnightly, devoted to a consideration of the problems of colonial government and administration.

Economics.

Associate Professor Sidney Sherwood:
   Alternate Thursday afternoons. For graduates.
2. The Law of Economic Development.
   One hour weekly, through the year. For graduates.
   Two hours weekly, first half-year. For graduates.
4. Theory of Credit.
   Two hours weekly, second half-year. For graduates.
5. Advanced Economics.
   Two hours weekly, through the year. Designed for undergraduates; open to graduates. [Elective.]

Associate Professor J. H. Hollander will be absent on leave during the ensuing academic year for public service as Treasurer of Porto Rico. His class work will be carried on by the following substitutes:

Mr. W. F. Willoughby, of the U. S. Department of Labor:
1. Labor Problems and Labor Legislation.
2. Social Economics.
   One hour weekly, through the year. For graduates.

Dr. E. D. Durand, of Leland Stanford, Jr. University, and of the U. S. Industrial Commission:
American Finance.
Two hours weekly, first half-year. For graduates.
Undergraduate Economics. (Instructor to be announced).
1. Elements of Economics. Money and Banking.
   Two hours weekly, through the year. [Part of "History-Economics."]
2. Economics Minor.
   a. Elements of Economics. Money and Banking.
      Four hours weekly, through the year.

Besides furnishing a general outline of economic science of value to every citizen, this course is designed especially to aid young men in preparation for business.

Public Aid, Charity, and Correction.

Dr. J. R. Brackett, President of the Board of Supervisors of Charities, Baltimore, will give class instruction in the following subjects:
1. Public Aid, Charity, and Correction.
   One hour weekly, first half-year. For graduates and specialists.
One hour weekly, second half-year.

PHILOSOPHY.

The undergraduate courses in Philosophy provide five hours per week of work for one year, under the direction of Professor Griffin. All candidates for the degree of Bachelor of Arts are required to follow them during the last year of residence.

1. Deductive and Inductive Logic.

The logical forms—terms, propositions, syllogisms—are studied as an analysis or explanation of the thinking process, and as a practical discipline in exact thought. Attention is given also to the material elements in inference, as these are stated in the several inductive methods.

Creighton's Introductory Logic is used as a text-book, with references to the works of Jevons, Mill, Bain, Keynes, and other writers.
Four hours weekly, until Christmas.

2. Psychology.

The instruction in psychology is intended to give a general view of the results of the present methods of study, the investigations in regard to the quality and intensity of sensations, the duration of psychic acts, etc.—in general, the subjects treated in Part II of Ladd's Physiological Psychology—being presented with sufficient detail to render them intelligible and interesting. A series of lectures and demonstrations on the anatomy and physiology of the nervous system is included in the course.

Special emphasis is laid upon the facts of conscious experience as known through introspection, the most important end to be secured being, in general, the subjects treated in Part II of Ladd's Physiological Psychology, in Short, the system of conscious experience. One essay on an assigned subject is required from each member of the class.
Four hours weekly, during January; five hours, from February 1 to April 1.

3. Ethics.

Ethics is treated with reference to its fundamental problems as a theoretical science, and also from a practical point of view. Its psychological basis varies in the various forms of feeling native to our constitution, and in the power of rational self-determination; the nature of the sense of obligation; the authority of conscience; the diversities of moral opinion; the historic theories of morals—hedonism, utilitarianism, intuitionism, and the application to ethical theory of the doctrine of evolution;—these are some of the topics discussed.

Fowler's Principles of Morals, Part II, is employed as a text-book, but the instruction is given, to a considerable extent, through lectures. One essay is required from each member of the class.
Five hours weekly, after April 1.


Outline of Greek Philosophy.
Weekly, first half-year.
Outline of Modern Philosophy. [Optional Course.]
Weekly, second half-year.

For next year the following advanced courses in Philosophy are offered:
1. Modern Philosophy from Descartes to Kant.
Weekly, through the year. Professor Griffin.
2. Modern Ethical Theories.
Portions. Professor Griffin.
DOCTORS OF PHILOSOPHY.


CLYDE CHEW GLANCOCK, of Buckland, Va., University of Virginia, 1892. Subjects: German, French, and Latin. Dissertation: The Preterit Tense of the verb haben in Rime-position in Middle High German. Referees on dissertation: Professors Wood and Vos.


### Doctors of Medicine.

- **Joseph Akerman**, of Cartersville, Ga., A. B., University of Georgia, 1894.
- **Herbert Williams Allen**, of Oakland, Cal., S. B., University of California, 1896.
- **Mabel Fletcher Austin**, of Minneapolis, Minn., S. B., University of Minnesota, 1893.
- **Alma Emerson Beale**, of Schaghticoke, N. Y., A. B., Wellesley College, 1891.
- **Milton Bettmann**, of Cincinnati, O., A. B., Harvard University, 1897.
- **Lawrance Brown**, of Cassanova, Va., A. B., Johns Hopkins University, 1891.
- **John Bruce MacCallum**, of Dunville, Ont., A. B., University of Toronto, 1896.
- **Mary Wilbur Marvell**, of Fall River, Mass., S. B., Wellesley College, 1894.
- **Clara R. Metzger**, of New York City, A. B., Barnard College, Columbia University, 1896.
- **Edward Spiller Oliver**, of Baltimore, A. B., Johns Hopkins University, 1895.
- **Richard Foster Rand**, of Meriden, Conn., Ph. B., Yale University, 1895.
- **Dorothy M. Red**, of Leyden, N. Y., B. L., Smith College, 1895.
- **Glancyville Yeisley Rush**, of Baltimore, A. B., Johns Hopkins University, 1896.
- **Ellen Appleton Stone**, of Providence, R. I., A. B., Radcliffe College, Harvard University, 1896.

### Bachelors of Arts.

- **Roger Brooke Taney Anderson**, of Baltimore.
- **Howard Baetjer**, of Baltimore.
- **Christian John Berewes**, of Baltimore.
- **Byron Noble Bouchelle**, of Chesapeake City, Md.
- **Austin Adams Breed**, of Cincinnati, Ohio.
- **Charles Edward Brooks**, of Baltimore.
- **Edward Skipwith Bruce**, of Baltimore.
- **James Luther Albert Burrell**, of Baltimore.
- **Christopher Thompson Clark**, of Washington, D. C.
- **McQuilkin DeGrange**, of Frederick, Md.
- **John Howard Eager**, Jr., of Baltimore.
- **John Edward Ewell**, of Baltimore.
- **Frederick Bonner Flinn**, of Worcester, Mass.
- **Frederick Foster**, of Baltimore.
- **Joseph David Greene**, of Lake Benton, Minn.
- **John Wheeler Griffin**, of Baltimore.
- **Stuart Heyman**, of Baltimore.
- **Harry Dickinson Hill**, of Baltimore.
- **John Philip Hill**, of Baltimore.
- **Edward Phuch Hyde**, of Baltimore.
- **Robert Clark Kern**, of Baltimore.
- **Donald Macf Liddell**, of Denver, Colo.
- **Norvin Rudolf Lindheim**, of Greensboro, N. C.
- **Leonard Leopold Mackall**, of Baltimore.
- **Jared Sparks Moore**, of Baltimore.
- **Tobias Noël DeLoughmore Purcell**, of Sykesville, Md.
- **Robert Bruce Roulston**, of Baltimore.
- **Franke Peyton Rous**, of Baltimore.
- **Alexander Van Renselaer Schirmerhorn**, of Baltimore.
- **Wilson Levering Smith**, of Baltimore.
- **Miltenberger Neal Smith**, of Baltimore.
- **George Lane Taneyhill**, Jr., of Baltimore.
- **Bayard Turnbull**, of Baltimore.
- **Miller Wimbirt**, of Hagerstown, Md.
- **Nathan Winslow**, of Baltimore.
- **Arthur Wright**, of Baltimore County, Md.

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*Philip Hanson Hiss, Jr., of New York—(Class of 1891).*
APPOINTMENTS, PROMOTIONS, AND HONORS ANNOUNCED
JUNE 12, 1900.

The following appointments and promotions have recently been made by the Trustees:

In the Philosophical Faculty:

FRANK MORLEY, M. A., D. Sc., recently Professor in Haverford College, to be Professor of Mathematics.

HARRY C. JONES, Ph. D., now Associate, to be Associate Professor of Physical Chemistry.

JOHN B. WHITEHEAD, A. B., now Instructor, to be Associate in Applied Electricity.

HARRY L. WILSON, Ph. D., now Instructor, to be Associate in Latin.

HENRY S. WEST, Ph. D., now Assistant, to be Instructor in English.

J. EUSTACE SHAW, Ph. D., now Fellow, to be Instructor in Italian.

EDWARD D. DURAND, Ph. D., to be Lecturer in American Finance.

WILLIAM F. WILLOUGHBY, A. B., to be Lecturer in Social Economics.

In the Medical Faculty:

THOMAS S. CULLEN, M. B., now Associate, to be Associate Professor of Gynecology.

GEORGE P. DREYER, Ph. D., now Associate, to be Associate Professor of Physiology.

REED HUNT, M. D., Ph. D., now Associate, to be Associate Professor of Pharmacology.

WILLIAM W. RUSSELL, M. D., now Associate, to be Associate Professor of Gynecology.

NORMAN MACL. HARRIS, M. B., now Assistant, to be Associate in Bacteriology.

WILLIAM G. MACCALLUM, M. D., now Assistant, to be Associate in Pathology.

OTTO G. RAMSAY, M. D., now Instructor, to be Associate in Gynecology.

PERCY M. DAWSON, M. D., now Assistant, to be Instructor in Physiology.

CHARLES P. EMERSON, M. D., to be Instructor in Medicine.

EUGENE L. OPEE, M. D., now Assistant, to be Instructor in Pathology.

MERVIN T. SUDLER, Ph. D., now Assistant, to be Instructor in Anatomy.

WILLIAM S. BARR, M. D., to be Assistant in Orthopaedic Surgery.

WARREN H. LEWIS, M. D., to be Assistant in Anatomy.

FRANK W. LYNCH, M. D., to be Assistant in Obstetrics.

JOHN B. MACCALLUM, M. D., to be Assistant in Anatomy.

HARRY T. MARSHALL, M. D., now Fellow, to be Assistant in Pathology.

ADAM T. BRUCE FELLOWS IN BIOLOGY.

CASWELL GRAVE, of Monrovia, Ind., S. B., Earlham College, 1895, Fellow, Johns Hopkins University, 1899–99, and Ph. D., 1899.

LAWRENCE EDMONDS GRIFFIN, of Hamline, Minn., A. B. and Ph. B., Hamline University, 1895, Fellow, Johns Hopkins University, 1899–1900, and Ph. D., 1900.

WILLIAM S. RAYNER FELLOW IN SEMITIC LANGUAGES.

KARL JOSEF GRIMM, of Baltimore, Fellow, Johns Hopkins University, 1897–99, and Ph. D., 1899.

HERBERT THOMPSON ARCHIBALD, of Halifax, N. S., A. B., Dalhousie University, 1897. Greek.

GEORGE ERNEST BARNETT, of Mocksville, N. C., A. B., Randolph-Macon College, 1891. Economics.

FRANK RINGGOLD BLAKE, of Baltimore, A. B., Johns Hopkins University, 1897. Semitic Languages.


BENJAMIN PALMER CALDWELL, of New Orleans, La., A. B., Tulane University, 1893. Chemistry.


WINFRED CONWAY CURTIS, of The Dalles, Ore., A. B., Williams College, 1897. Zoology.

JOSEPH ENDANGER, of San Francisco, Cal., S. B., University of California, 1895; M. D., Johns Hopkins University, 1899. Pathology.


JOSEPH CHRISTIE WHITNEY FRAZEE, of Lexington, Ky., S. B., Kentucky State College, 1897. Chemistry.

NORMAN EVERETT GILBERT, of Middletown, Conn., A. B., Wesleyan University, 1895. Physics.

ROScoe GUERNSEY, of East Cobleskill, N. Y., A. B., Union College, 1896. Greek.

FRED COLE HICKS, of Tipton, Iowa, Ph. B., Cornell College, 1896. German.

GEORGE CURTIS MARTIN, of Adams, Mass., S. B., Cornell University, 1898. Geology.


CHARLES ALFRED MOISEMILLER, of New Albany, Ind., A. B., Indiana University, 1899. Romance Languages.

LOUIS ALEXANDER PARSONS, of Burlington, Iowa, A. B., Iowa State University, 1885. Physics.

ISAAC EUCLID RABINOVITCH, of Baltimore. Mathematics.


PERCY GOLDTHWAITE STILES, of Newtonville, Mass., S. B., Mate. Institute of Technology, 1897. Physiology.

Hopkins Scholarships offered to Virginia and North Carolina Graduates.

These scholarships, in accordance with the wishes of the founder, are awarded to candidates from Virginia and North Carolina who are considered by the Academic Council to be the "most deserving of choice because of their character and intellectual promise." The Maryland Scholarships are awarded to undergraduates.

R. M. BIRD (A. B., Hampden-Sidney College, 1897), of Petersburg, Va.

J. H. BLACKWELL (A. B., Randolph-Macon College, 1895), of Broadrun, Va.

W. K. BOYD (A. B., Trinity College, N. C., 1897), of Durham, N. C.


C. D. COWLES, Jr. (Guilford College, 1900), of Guilford College, N. C.

W. B. DANIEL (A. M., Wake Forest College, 1892), of Wake Forest, N. C.

J. L. DAVIS (S. B., South Carolina College, 1897), of Asheville, N. C.


H. J. ECKENRODE (A. B., Fredericksburg College, 1898), of Fredericksburg, Va.

A. W. FREEMAN (S. B., Richmond College, 1899), of Richmond, Va.

C. D. HARRIS (S. B., North Carolina Agricultural College, 1897), of Raleigh, N. C.

C. H. S. HUMPHREYS (A. B., Emory and Henry College, 1895), of Saltville, Va.
HONORS OF THE UNDERGRADUATES.

The standing of students of the second year, who are entitled to honorable mention, is as follows:

- Edward Pechin Hyde
- Robert Bruce Roulston
- Donald Macy Liddell
- Howard Barstow
- John Howard Eager, Jr.
- Frank Peyton Rous
- Joseph David Greene
- Charles Edward Brooks
- John Wheeler Griffin
- Leonard Leopold Mackall
- Otto Charles Glazer
- Jared Sparks Moore
- Byron Noble Bouchelle
- Jasper Luther Albert Burrell

The standing of students of the first year, who are entitled to honorable mention, is as follows:

- Aaron Ember
- John Gresham Machen
- Robert Brooks Morse
- Norman Boyer
- Otto Albert Struth

The Hopkins Scholarships, which are awarded to residents of Maryland only, are bestowed as follows:

SECOND YEAR

Aaron Ember
John Gresham Machen
Robert Brooks Morse
Norman Boyer
Otto Albert Struth

HONORS OF THE MEDICAL STUDENTS.

Resident House Officers in the Johns Hopkins Hospital.

- Herbert Williams Allen, M. D.
- Milton Bettmann, M. D.
- Dorothy M. Reed, M. D.
- Curtis Field Burnam, Jr., M. D.
- Henry Asbury Christian, M. D.
- Arthur Lawrence Fishbein, M. D.
- William Henry Sowers, M. D.
- William Alexander Fisher, Jr., M. D.
- Paul Gerhardt Woolley, M. D.

Mr. H. F. Perkins, A. B., has been designated to occupy the table allotted to this University in the laboratory of the U. S. Fish Commission at Wood's Hole.

RECENT GIFTS TO THE UNIVERSITY AND AWARD OF PRIZES.

The John Marshall Prize.

The John Marshall Prize for 1900 has been awarded to James Morton Callahan, Ph. D., for his work entitled "Cuba and International Relations," recently published. This prize, consisting of a bronze likeness of Chief Justice Marshall, is awarded annually for the best essay written by a graduate of the University upon some subject in historical or political science.

The Tocqueville Medal.

The Tocqueville gold medal is annually offered by the "Union Francaise des Universites d'Amérique," in honor of the illustrious Frenchman, Alexis de Tocqueville (1805-1859), to that member of the Johns Hopkins University, who shall have written the best essay on some subject illustrating any phase of French history, political or social, from 1815 to 1860, or a review of some important historical work published in France since 1890. For 1900 the medal is awarded to James Edward Routh, Jr., A. B., Johns Hopkins University, 1900, for his essay on "French Colonial System."
The Johns Hopkins Press of Baltimore.

LIST OF SERIALS ISSUED.

AMERICAN JOURNAL OF MATHEMATICS.
The journal was commenced in 1875, under the editorial direction of Professor Sylvester. Twenty-one volumes of about 400 pages each have been issued, and the twenty-second is in progress. It appears quarterly. Subscription $5 per year. Single numbers $1.50. A very few complete sets remain. These will be sold for $100 per set.

AMERICAN CHEMICAL JOURNAL.
This journal was commenced in 1879, with Professor Ira Remsen as Editor. Twenty-three volumes have been issued, and the twenty-fourth is in progress. It appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year. Single numbers 50 cents.

AMERICAN JOURNAL OF PHILOLOGY.
The publication of these papers commenced in 1882, under the editorial direction of Professor Herbert B. Adams. Seventeen series are now completed and the eighteenth series is in progress. It appears monthly. Subscription $3 per volume. The set of seventeen series, in cloth, will be sold for $81. Twenty-one extra volumes have also been issued.

STUDIES FROM THE BIOLOGICAL LABORATORY.
The publication of these papers began in 1889, under the direction of Professor H. Newell Martin, with the assistance of Professor W. K. Brooks. Five volumes of about 500 pages, octavo, and 40 plates each, have been issued.

STUDIES IN HISTORICAL AND POLITICAL SCIENCE.
The publication of these papers was begun in 1889, under the direction of Professor Paul Haupt. Three volumes have been issued.

MEMOIRS FROM THE BIOLOGICAL LABORATORY.
These monographs are issued under the editorial direction of Professor William K. Brooks. Volume IV is complete. Price of the four volumes $30.

THE JOHNS HOPKINS UNIVERSITY CIRCULARS.
The publication of these circulars began in December, 1879, and 146 numbers have since been issued. Subscription $1 per year.

CONTRIBUTIONS TO ASSYRIOLGY AND COMPARATIVE SEMITIC PHILOLOGY.
The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Breslau, are the Editors. Volume IV is in progress.

THE JOHNS HOPKINS HOSPITAL REPORTS.
These reports are edited by Professor William B. Clark, Director of the Survey. Three volumes have been issued.

THE JOHNS HOPKINS HOSPITAL BULLETIN.
The publication of these Bulletins began in 1889. Volume XI is in progress. They are published monthly. Subscription $1.00 per year. The set of ten volumes will be sold for $20.

MODERN LANGUAGE NOTES.
This journal is edited by Professor A. Marshall Elliott and his associates in the Modern Language Department. It appears monthly. The fifteenth volume is in progress. Price $1.50 per year.

JOURNAL OF EXPERIMENTAL MEDICINE.
This journal is edited by Professor William H. Welch with the cooperation of a number of associates. It appears six times a year. Volume XVII is in progress. Price $5 per year. The set of four volumes will be sold for $25.

AMERICAN JOURNAL OF INSANITY.
Professor Henry M. Hurd is the managing editor of this journal. It appears quarterly. Volume LXVI is in progress. Subscription $6 per year.

TERRITORIAL MAGNETISM AND ATMOSPHERIC ELECTRICITY.
This journal is edited by Dr. L. A. Bauer. Volume V is in progress. It appears quarterly. Subscription $2.50 per year.

REPORTS OF THE MARYLAND GEOLOGICAL SURVEY.
These reports are edited by Professor William B. Clark, Director of the Survey. Three volumes have been issued.

REPORTS OF THE MARYLAND WEATHER SERVICE.
The reports are edited by Professor William B. Clark, Director of the Survey. The first volume is now ready.

THE JOHNS HOPKINS PRESS ALSO PUBLISHES THE FOLLOWING NAMED SEPARATE WORKS:

A NEW POLYORROME EDITION OF THE OLD TESTAMENT.

The two editions are issued:—an edition de luxe, at $100 per set, and an octavo edition, at a special price per part.

PHOTOGRAPHIC OF THE NORMAL SOLAR SPECTRUM.
A series of twenty plates made under the direction of Professor Rowland. The series is sold for $20.

DESCRIPTION OF THE JOHNS HOPKINS HOSPITAL.
Edited by Dr. John S. Billings, containing 56 large quarto plates with views, plans, etc., and 116 pages of letter-press. Price $7.50.

Reproduction in phototype of seventeen pages of a Syriac Manuscript, containing the Epistles known as “Antilegomena,” edited by Professor Isaac H. Hall. Price $3.00.

Lists of publications will be sent on application to The Johns Hopkins Press.

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