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Seventy-sixth Annual Catalogue

OF THE

OFFICERS AND STUDENTS

OF

PENNSYLVANIA COLLEGE

GETTYSBURG, PENN'A

FOR THE ACADEMIC YEAR

1907---1908

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CALENDAR 1907-1909.

1907.

- Sept. 12. Thursday Morning—Beginning of First Term.
Dec. 20. End of First Term.

WINTER VACATION.

1908.

- Jan. 7. Beginning of Second Term.
Mar. 27. End of Second Term.
RECESS, NOON, MARCH 27, TO MORNING APRIL 2.
April 2. Beginning of Third Term.
May 19. Junior Latin Examination for Hassler Prize.
June 1, 2, 3. Final Examinations of Senior Class.
June 8. Entrance Examinations.
June 7. Sunday Morning—Baccalaureate.
June 7. Sunday Evening—Discourse before the Y. M. C. A.
June 8, 9. Entrance Examinations.
June 9. 8 A. M., Tuesday—Meeting of Board of Trustees.
June 10. 10 A. M., Wednesday—Junior Oratorical Contest.
June 10. Evening—Annual Meeting of Alumni—President's Reception.
June 11. 9 A. M., Thursday—Commencement Exercises—Alumni Col-
lation.

SUMMER VACATION.

- Sept. 10. Thursday Morning—Beginning of First Term.
Dec. 18. End of First Term.

WINTER VACATION.

1909.

- Jan. 5. Beginning of Second Term.
March 25. NOON—End of Second Term.
March 25. NOON—Beginning of Third Term.

EASTER RECESS, APRIL 7 (NOON) TO APRIL 14 (7.40 A. M.).

- June 9. Commencement.

OFFICIAL ROLL OF TRUSTEES.

President, HON. EDMUND D. GRAFF.
 Vice President, HON. SAMUEL McC. SWOPE.
 Secretary, CHARLES M. STOCK, D.D.
 Treasurer, HENRY C. PICKING.

Elected.

1862. John George Butler, D.D., LL.D.	Washington, D. C.
1870. *Luther E. Albert, D.D.	Mt. Airy, Phila.
1873. George Ryneal, Jr.	Martinsburg, W. Va.
1875. Hon. Samuel D. Schmucker, LL.D.	Baltimore, Md.
1878. Harvey W. McKnight, D.D., LL.D.	Gettysburg.
1888. *Philip H. Glatfelter.	Spring Forge.
1890. Hon. Edmund D. Graff.	Worthington.
1890. William H. Dunbar, D.D.	Baltimore, Md.
1890. Hon. Samuel McC. Swope.	Gettysburg.
1892. Thomas C. Billheimer, D.D.	Gettysburg.
1893. John Wagner, D.D.	Hazleton.
1894. Charles M. Stock, D.D.	Hanover.
1894. Matthew G. Boyer, D.D.	Philadelphia.
1896. James Strong.	Philadelphia.
1896. John B. McPherson, Esq.	Boston, Mass.
1896. J. Emory Bair.	Gettysburg.
1897. John Jacob Young, D.D.	New York, N. Y.
1897. William A. Shipman, D.D.	Johnstown.
1898. Henry C. Picking.	Gettysburg.
1899. Charles F. Stiefel	Allegheny.
1899. Henry H. Weber, D.D.	York.
1902. Charles Baum, M.D., Ph.D.	Philadelphia.
1905. Milton H. Valentine, D.D.	Philadelphia.
1906. Samuel G. Hefelbower, D.D.	Gettysburg.
1906. George E. Neff, Esq.	York.
1907. Luther P. Eisenhart, Ph.D.	Princeton, N. J.
1907. Martin H. Buehler	Pittsburg.
1907. Hon. R. William Bream	Gettysburg.
1907. Frederick H. Bloomhardt, M.D.	Altoona.
1907. Alpheus Edwin Wagner, Ph.D., D.D.	Altoona.

*Deceased.

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FACULTY AND INSTRUCTORS.

- REV. S. G. HEFELBOWER, A.M., D.D.,
PRESIDENT, AND WILLIAM BITTINGER PROFESSOR OF INTELLECTUAL AND
MORAL SCIENCE.
- JOHN A. HIMES, L.H.D., ^{3 Campus.}
GRAEFF PROFESSOR OF ENGLISH LITERATURE AND POLITICAL SCIENCE,
AND LIBRARIAN.
- REV. PHILIP M. BIKLE, A.M., PH.D., ^{130 Carlisle Street.}
DEAN AND PEARSON PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.
- EDWARD S. BREIDENBAUGH, A.M., Sc.D., ^{3 Campus.}
OCKERSHAUSEN PROFESSOR OF CHEMISTRY AND MINERALOGY, AND CURATOR
OF THE MUSEUM.
- GEORGE D. STAHLEY, A.M., M.D., ^{227 Carlisle Street.}
DR. CHARLES H. GRAFF PROFESSOR OF BIOLOGY AND HYGIENE, AND SECRETARY
OF THE FACULTY.
- HENRY B. NIXON, PH.D., ^{Confederate Avenue.}
ALUMNI PROFESSOR OF MATHEMATICS AND ASTRONOMY.
- REV. OSCAR G. KLINGER, A.M., ^{1 Campus.}
FRANKLIN PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.
- CHARLES E. DRYDEN, A.M., ^{130 Broadway.}
PROFESSOR OF THE FRENCH LANGUAGE AND LITERATURE.
- REV. JOHN O. EVJEN, A.M., PH.D., ^{157 Carlisle Street.}
AMANDA RUPERT STRONG PROFESSOR OF ENGLISH BIBLE, AND CHAPLAIN.
- CARL J. GRIMM, PH. D., ^{109 Broadway.}
PROFESSOR OF THE GERMAN LANGUAGE AND LITERATURE.
- REV. CHARLES F. SANDERS, A.M., ^{228 Carlisle Street.}
PROFESSOR OF PHILOSOPHY.
- LOUIS A. PARSONS, PH.D., ^{20 East High Street.}
PROFESSOR OF PHYSICS. ^{240 Springs Avenue.}

CLYDE B. STOVER, A.M.,

ASSISTANT IN CHEMISTRY.

E. Lincoln Street.

JAMES A. DICKSON, A.B.,

ASSISTANT IN CHEMISTRY.

103 W. Middle Street.

HERBERT S. DORNBERGER, A.B.,

ASSISTANT IN MATHEMATICS.

66 Lincoln Street.

HAROLD S. LEWARS, A.M.,

ASSISTANT IN ENGLISH.

129 Lincoln Street.

A. J. WHITE HUTTON, A.M., LL.B.,

LECTURER ON JURISPRUDENCE.

Chambersburg.

HENRY WOLF BIKLE, A.M., LL.B.,

LECTURER ON CONSTITUTIONAL LAW.

Philadelphia.

REV. CHARLES H. HUBER, A.M.,

PRINCIPAL OF THE PREPARATORY DEPARTMENT, AND PROFESSOR OF LATIN
AND ENGLISH.

ALBERT BILLHEIMER, A.B.,

TUTOR IN GREEK AND HISTORY.

411 Carlisle Street.

WARD B. S. RICE, A.B.,

TUTOR IN MATHEMATICS AND NATURAL SCIENCE.

16 Stevens Hall.

LILLIA R. GANTT,

PRECEPTRESS.

42 Stevens Hall.

JOHN W. WEIMER,

PHYSICAL INSTRUCTOR.

3 Campus.

WILLIAM A. BERKEY,

PROCTOR.

30 East College.

HOWARD C. A. STOUFFER,

PROCTOR.

7 Middle College.

SALLIE P. KRAUTH,

ASSISTANT LIBRARIAN.

14 South College.

3 Baltimore Street.

COURSES OF STUDY.

The College offers the following courses:

- I. A Classical course leading to the degree of A.B.
- II. A Scientific course leading to the degree of B.S.
- III. Select courses without reference to a degree.

TERMS OF ADMISSION.

Entrance examinations are held on Monday and Tuesday before Commencement and on Thursday, the day of opening, in September. While there may be examinations at other times, all applicants are urged to present themselves on the days appointed. Students from the Preparatory Department are admitted to the Freshman class upon the recommendation of the Principal without further examination. Applicants recommended by approved Academies and High Schools as having mastered the required preparatory studies are admitted on an extended trial, without a formal examination. *Women are admitted to all departments as day scholars.*

Note.—It is expected that additional entrance requirements for 1909 will be adopted by the Board of Trustees at its next annual meeting in June. If so, a leaflet announcing those requirements will be issued.

CLASSICAL COURSE.

Candidates for the Freshman class are subject to examination in the following books or their equivalents:

LATIN.—Latin Grammar: three books of Cæsar's *Gallic War*; three books of Virgil's *Æneid*; three orations of Cicero.

GREEK.—Greek Grammar complete; three books of the *Anabasis*; Jones' Prose Composition complete.

MATHEMATICS.—Arithmetic complete, including the Metric System; Elementary Algebra (Wells' Academic, through Quadratics. Robinson's complete, or Wentworth's to Chapter XVIII); Geometry, three books of Wentworth's or Phillips and Fisher's or the equivalent in other authors.

ENGLISH.—In English the following books, recommended by the Association of Colleges and Preparatory Schools of the Middle States and Maryland, will be required.

(a.) Reasonable familiarity with the substance of the work:

For 1908: Shakespeare's *Macbeth* and *Merchant of Venice*; Addison's *Sir Roger de Coverley Papers*; Irving's *Life of Goldsmith*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe* and *Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *Passing of Arthur*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

For 1909: Shakespeare's *Merchant of Venice* and *Julius Caesar*; Bunyan's *Pilgrim's Progress. Part I.*; Addison's *Sir Roger de Coverley*; Scott's *Ivanhoe* and *Lady of the Lake*; Irving's *Sketch Book*; Macauley's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; George Eliot's *Silas Marner*.

(b.) More careful and specific study:

For 1908: Shakespeare's *Julius Caesar*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macauley's *Essay on Addison* and *Life of Johnson*.

For 1909: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Carlyle's *Essay on Burns*.

The candidate will be required to present evidence of a general knowledge of the subject matter and to answer simple questions on the lives of the authors. The form of examina-

tion will usually be the writing of a paragraph or two on each of several topics designed to test the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books. Questions involving the essentials of English Grammar and the fundamental principles of Rhetoric will be part of the examination.

No candidate will be accepted in English whose work is notably deficient in spelling, punctuation, idiom, or division into paragraphs.

GEOGRAPHY AND HISTORY.—Modern Political Geography; History of the United States (the equivalent of Sheldon's); Essentials of Greek and Roman History.

SCIENTIFIC COURSE.

Candidates for the Freshman class of the Scientific Course are subject to the same examination as for the Classical Course with the omission of the Greek. For this omission may be substituted one of the following:

I: PHYSIOGRAPHY. — (Elementary Physical Geography), BOTANY (Elements of systematic and structural departments), or ELEMENTARY PHYSICS.

II. HISTORY.—Histories of England and France (Montgomery is recommended).

SELECT COURSES.

Students not candidates for a degree are admitted to the privileges of the College and allowed to take special undergraduate studies, selected with the approval of the faculty in such a manner as to secure the full and profitable employment of their time. Such special students undergo the examination necessary to ascertain their fitness for the proposed courses.

A candidate for advanced standing, in addition to the foregoing studies, is examined in the various books which the class he proposes to enter has studied.

An accurate and thorough acquaintance with the studies required for admission is indispensable, in order to receive the full advantage of the college course. Students imperfectly prepared for the class they enter are embarrassed in their future progress and are seldom able to make up their deficiency.

No one is admitted to the Senior class after the beginning of the second term.

TESTIMONIALS.—Satisfactory testimonials of good moral character are required, and students from other institutions must bring certificates of regular and honorable dismissal.

SUPERVISION AND DEVOTIONAL EXERCISES.

The President and the Dean, residing on the Campus, have special supervision of the buildings and are at all times easily accessible to the students. The College seeks to secure the co-operation of each individual student in the preservation of good order and the attainment of a high standard of scholarship and manly conduct.

Prayers, with reading of the Scriptures and singing, conducted by the President or Chaplain, are attended daily at 7.40 A. M., on week days, in Brua Chapel. At 10.30 A. M. on Sunday all the students are required to attend public worship in the College Church, or in such other place of worship as their parents or guardians may designate by written request. Catechetical instruction is provided for those who desire it, and students are welcomed to other religious services in the churches of the town.

The Young Men's Christian Association of the College is an active agent in promoting religious interest among the stu-

dents. Regular and special meetings for prayer are conducted by the members and classes for Bible study are formed. An annual course of lectures and musical entertainments under the same auspices adds much to the social enjoyment and culture of the college community.

INSTRUCTION.

In the undergraduate courses each candidate for a degree must have sixteen exercises a week of required or elective work in recitations, lectures, or laboratory periods, besides the gymnasium periods. Usually there are three exercises each day except Saturday, when there is commonly only one. Laboratory, drawing and surveying periods are each two and a half hours. A gymnasium period is one hour. A student in any of the special courses must have not less than eleven exercises a week.

RULES FOR THE CHOICE OF ELECTIVES.

1. No student shall be allowed to pursue any elective study unless the instructor in the same is satisfied that the student is prepared to pursue said study.

2. The choice of electives shall be made at the beginning of the year, and no change shall be allowed during the year.

The following schedule presents a general view of the studies and hours of the various classes:

SCHEDULE FOR THE CLASSICAL COURSE.

CLASS	H'RS.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FRESHMAN	8 or 9	Greek.	Latin.	Greek.	Latin.	Greek.	Latin
	10 or 11	Elocution.	Mathematics.	Mathematics.	Mathematics.	Mathematics.	
	2 or 3	French.	History.	French.	History.	Bible.	
SOPHOMORE	8 or 9	Latin.	Greek.	Latin.	Greek.	Latin.	Greek.
	10 or 11	German.	English.	English.	German	English.	
	2 or 3	Mathematics	Bible.	Mathematics.	1 } Elocution. 2 } 3 } Botany.	Mathematics.	
JUNIOR	8 or 9	English.	German	Psychology.	Psychology.	English.	German.
	10 or 11	1 } <i>Math.</i> 2 } <i>English.</i> 3 } <i>Chemistry.</i> 4 } <i>Biology.</i> 5 } <i>Physics.</i>	1 } Latin. 2 } <i>Latin.</i> 3 } <i>Bible.</i>	1 } Greek. 2 } <i>Greek.</i> 3 } <i>Bible.</i> 4 } <i>Biology.</i>	1 } Latin. 2 } <i>Latin.</i> 3 } <i>Bible.</i>	1 } Greek. 2 } <i>Greek.</i> 3 } <i>Bible.</i> 4 } <i>Biology.</i>	
	1 to 3	Chemistry or French.	1 } <i>Math.</i> 2 } <i>English.</i> 3 } <i>Chemistry.</i> 4 } <i>Biology.</i> 5 } <i>Physics.</i>	Chemistry or French.	1 } <i>Math.</i> 2 } <i>English.</i> 3 } <i>Chemistry.</i> 4 } <i>Biology.</i> 5 } <i>Physics.</i>	Chemistry or French.	
SENIOR	8 or 9	1 } Astronomy 2 } Theism. 3 }	Pol. Science.	1 } Astronomy. 2 } Theism. 3 }	Pol. Science.	1 } Astronomy 2 } Theism.	Pol. Science. Chemistry (9). Bible (9).
	10 or 11	1 } Physics. 2 } Geography. 3 }	1 } Physics. 2 } 3 }	1/2 } Evid. Christ. 1/2 } Ethics.	1/2 } Evid. Christ. 1/2 } Ethics.	1 } Physics. 2 } Geology.	<i>Biology.</i>
	1 } 2 } 3 }	1 } <i>History.</i> 2 } <i>Pol. Science.</i> 3 } <i>Sci. Science.</i> 4 } <i>Chemistry.</i> 5 } <i>Philosophy.</i> 6 } <i>Physics.</i>	1 } <i>History.</i> 2 } <i>Greek.</i> 3 } <i>Biology.</i> 4 } <i>Mineralogy.</i>	German. Latin. Chemistry. Philosophy. Physics.	1 } <i>History.</i> 2 } <i>Greek.</i> 3 } <i>Biology.</i> 4 } <i>Mineralogy.</i>	German. Latin. Chemistry. Philosophy. Physics.	

Astronomy, one hour a week (Observatory (night) work.
Math Problems, two periods a week at convenience

Italics indicate Elective Studies.
Numerals, 1, 2, and 3, before a subject, indicate the term during which the subject is studied.

SCHEDULE FOR THE SCIENTIFIC COURSE.

CLASS	H'rs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FRESHMAN	8 or 9	Chemistry.	Latin.	Chemistry.	Latin.	Chemistry.	Latin
	10 or 11	Elocution.	Mathematics.	Mathematics.	Mathematics.	Mathematics.	
	2 or 3	French.	History.	French.	History.	Bible.	
SOPHOMORE	8 or 9	Latin.	Chemistry.	Latin.	Chemistry.	Latin.	Mech. Draw.
	10 or 11	German.	English.	English.	German	English.	
	2 or 3	Mathematics	Bible.	Mathematics.	1 } Elocution. 2 } 3 } Botany.	Mathematics.	
JUNIOR	8 or 9	English	Surveying.	Psychology.	Psychology.	English.	German
	10 or 11	1 } Math. 2 } English. 3 } Chemistry. 4 } Biology. 5 } Physics.	German.	1 } Chemistry. 2 } 3 } Chemistry. 4 } Biology.	Surveying (9).	1 } Chemistry 2 } 3 } Chemistry. 4 } Biology.	
	1 to 3	Chemistry or French.	1 } Math. 2 } English. 3 } Chemistry. 4 } Biology. 5 } Physics.	Chemistry. or French.	1 } Math. 2 } English. 3 } Chemistry. 4 } Biology. 5 } Physics.	Chemistry or French.	
SENIOR	8 or 9	1 } Astronomy 2 } 3 } Theism.	Pol. Science.	1 } Astronomy. 2 } 3 } Theism.	Pol. Science.	1 } Astronomy 2 } 3 } Theism.	Pol. Science. Chemistry (9). Bible (9).
	10 or 11	1 } Physics. 2 } 3 } Geology.	1 } Physics. 2 } 3 } Geology,	1 } Evid. Christ. 2 } 3 } Ethics.	1 } Evid. Christ. 2 } 3 } Ethics.	1 } Physics. 2 } 3 } Geology.	Biology.
	1 2 3 1 to 3	History. Pol. Science. Sant. Science, Chemistry, Philosophy, Physics.	History. Biology. Mineralogy. Philosophy.	German. Physics. Chemistry. Philosophy.	History. Biology. Mineralogy.	German. Physics. Chemistry. Philosophy.	

Astronomy, one hour a week Observatory (night) work.
Math. Problems, two periods a week at convenience.

Italics indicate Elective Studies.
Numerals, 1, 2, and 3, before a subject, indicate the term during which the subject is studied.

DEPARTMENTS OF INSTRUCTION.

PHILOSOPHY.

Professors EVJEN, GRIMM and SANDERS.

1. *Psychology.* The functions of the human mind are explained as they manifest themselves in experience. The history of the progress in Psychology—especially the rapid strides in recent years—is dwelt upon sufficiently to show the relation of present-day Psychology to that of the past. The student is instructed in methods of careful introspection by reference to the methods and best results in the most recent experimental investigation.

Junior required course. Two hours a week, first and second terms.

2. *Logic.* The nature and processes of reasoning and the conditions and methods of proof are studied. The aim is to acquaint the student with the laws governing scientific investigation and positive constructive thinking.

Junior required course. Three hours a week during third term.

3. *Philosophy, Course 1.* A rapid survey of the History of Philosophy with a view to showing the development of the various schools and their distinguishing principles, and a course in Introduction to Philosophy presenting an outline of present problems.

Senior elective. Two hours a week throughout year.

4. *Philosophy, Course 2.* The first term is devoted to the genetic study of the social functions of mind; the second term, to an Introduction to Sociology; and the third term to the Psychological Principles of Education. The guiding thought of the course is, man as a member of society, how he has become the kind of member which he is and the processes by which he may be improved. Psychology, Sociology, Pedagogy.

Senior elective. Two hours a week throughout the year.

5. *Ethics.* The aim is to have the student think through to solution the problems arising from the study of man as an ethical being. The psychological basis, the metaphysical implications—personality, freedom, God,—and the practical application of theories are carefully studied.

Senior required course. Two hours a week, second half year.

6. *Theism.* The traditional arguments for the theistic world-view

are studied so as to show the consequences for the theistic view in the chief philosophic theories, culminating in the grounds for the theistic view in present-day thought. The student is shown how to hold the theistic view in the world in which he lives.

Senior required course. Three hours a week, third term.

A standard text is used as a basis in each of the above courses. The class-room work consists of lecture, discussion and recitation. Essays on assigned topics are required.

1-6 Professor SANDERS

7. *Christian Evidence*. Bruce's *Apologetics*. While opposing theories are duly considered, the argument for Christianity from Miracles is accepted and defended. This argument is supported by others derived from various sources, such as the fulfillment of Prophecy, the adaptedness of Christianity to the needs of human nature, the superiority of Christian Doctrine, and the benevolent fruits of the religion of Christ.

Senior required course. Two hours a week, the first half of the year.

Professor EVJEN

8. *Æsthetics*. Outline study of the leading periods and the general features of the various fine arts, with discussion of the principal æsthetic problems. Illustrated by photographs and other reproductions. Van Dyke, *College Histories of Art*; G. B. Brown, *The Fine Arts*; Knight, *the Philosophy of the Beautiful*, Part II.

Elective for Seniors. One hour a week throughout the year.

Professor GRIMM

MATHEMATICS AND ASTRONOMY.

Professor NIXON and Mr. DORNBERGER.

1. *Geometry*. Plane (books fourth and fifth), solid and spherical. (Wentworth.)

Freshman required course. Four hours a week the first term and one-third of the second term.

2. *Algebra*. Series; undetermined coefficients; binominal theorem; logarithms; determinants; theory of equations. (Wells.)

Freshman required course. Four hours a week during two-thirds of the second, and one-half of the third term.

3. *Trigonometry*. Trigonometric functions; right triangle; isosceles triangle; regular polygon; goniometry. (Murray.)

Freshman required course. Four hours a week, the last half of the third term.

4. *Trigonometry*. Oblique triangle; right spherical triangle; oblique spherical triangle; application of spherical trigonometry to the solution of astronomical and other problems. (Murray.)

Sophomore required course. Three hours a week, the first term.

5. *Plane Analytic Geometry*. Rectilinear, oblique and polar systems; relation between the rectilinear and polar systems; equations of the straight line; properties of rectilinear figures; circle; ellipse; hyperbola; tangents and normals; loci of the first and second order; higher plane loci; transcendental curves. (Smith and Gale.)

Sophomore required course. Three hours a week during the second term and two-thirds of the third term.

6. *Surveying*. Practical use of instruments—compass, transit and level; plotting; computing areas; making profiles. (Wentworth.)

Sophomore required course. Three hours a week, the last third of the third term.

7. *Mechanical Drawing*. Geometrical construction; transcendental curves; section of the cone showing the ellipse, hyperbola and parabola; cylinders penetrating each other and the development of the same; isometric projections of solids; perspective.

Sophomore (Scientific) required course. One period a week during the year.

8. *Field Work in Surveying*. Use of the transit and level; rectangular surveying and use of transverse tables; triangulations; laying out curves; avoiding obstructions; leveling and setting grade stakes. (Carrhart.)

Junior (Scientific) required course. Two hours a week during the first term and one-half of the third term.

9. *Mechanics (Statics)*. Composition and resolution of forces; parallel forces; equilibrium of a rigid body acted on by three forces in a plane; centre of gravity; machines; work. (Loney.)

Junior (Scientific) required course. Two hours a week during the second term and half of the third term.

10. *Differential Calculus*. Differentiating; expansion of series; maxima and minima; indeterminate forms; tangents and normals; asymptotes and singular points; theory of envelopes; radius of curvature; evolutes and involutes. (Granville.)

Junior and elective course. Three hours a week, the first term.

11. *Integral Calculus*. Integration; definite integrals; successive integration; rectification of curves; quadrature of plane figures; cubature of volumes. (Granville.)

Junior elective course. Three hours a week, second term.

12. *Calculus*. Special topics.

Junior elective course. Three hours a week, third term.

13. *Elements of Projective Geometry*. (Cremona.)

Junior elective course. Three hours a week during the second half year.

14. *Astronomy*. The subject as treated by Young; different authors reviewed by members of the class. The students of this course have access to the Observatory, which is equipped with a chronometer, sextant, transit and equatorial.

Senior required course. Three hours a week during the first and second terms.

15. *Practical Astronomy*. The instruments used, besides the time-pieces, are the sextant, transit and equatorial. Determination of time, latitude and longitude; measurements of the diameters of planets and the distances of their satellites; measurements of the heights of mountains on the moon; measurements of double stars; calculation of eclipses; calculation of sunrise and sunset.

Senior Elective course. One hour a week during the year.

16. *Mathematics*. Analytical Geometry of three dimensions. (Smith.) Differential equations. (Murray.) Mechanics, Projective Geometry. (Cremona.)

Senior elective course. Three hours a week during the year.

GREEK.

Professors KLINGER and EVJEN.

I. THE ORATORS. *Antiphon*, *Lysias* and *Isacus*. Representative selections are read and compared with distinct reference to the development of prose style. The abundant allusions in them to early Athenian life are made the basis for studies in Greek antiquities of the historic period. Blackboard drill in forms, the explanation of case, mood and tense uses and the study of words are features of the recitation. Lectures on the conditions under which prose-writing originated and developed are given at stated periods. Prose composition, based on the text, twice each week.

Freshman (Classical) required course. Three hours a week, first and second terms.

2. THE HISTORIANS. *Thucydides*. Selections from the Peloponnesian War. The study of the text continues the syntactical analysis,

the drill in forms, and the study of words in accordance with the principles of word-formation. Special attention is given to the subject matter, and the stirring times preceding the overthrow of the Athenian supremacy are depicted. Prose composition as before.

Freshman (Classical) required course. Three hours a week, third term.

Hecrodotus. Portions of the Persian War are read rapidly with particular attention to the subject-matter. The importance of the period calls for a review of history, and readings are assigned in Grote and other historians to be reported on by the students. The course comprehends lectures on the Greek dialects and advanced studies in the history of case, mood and tense development. Prose composition as before.

Sophomore (Classical) required course. Three hours a week, first term.

3. EPIC POETRY. *Homer*. The Iliad (Full text required.) The study of the text is preceded by a course of dictated lectures which aim at setting forth the Homeric question in its latest phase. The Iliad is then interpreted as a piece of literature in harmony with the conclusion of the latest Homeric scholars. Special study is made of the epithets, and by frequent word-reviews from the blackboard an attempt is made to fix the vocabulary. Each student is required with the aid of Gehring's Index to develop one or more subjects in Homeric antiquities.

Sophomore (Classical) required course. Three hours a week, second and third terms.

4. THE ATTIC DRAMA. *Æschylus* and *Sophocles*. The entire Junior year is devoted to the study of the Attic Drama. The course contemplates by means of lectures and assigned readings a complete survey of ancient Tragedy and Comedy in their origin and development, and their relation to the modern stage. Lectures on the Greek Theatre precede the study of the text.

Junior (Classical) required course. Two hours a week for two terms.

Euripides or *Aristophanes*. The students are permitted to choose between these authors.

Junior elective course. Two hours a week, third term.

5. *Demosthenes, De Corona*. The study includes the age. The decadence of the Hellenic spirit, as shown in civic life, literature, and art, is traced with the class. The course is intended to include, as far as possible, a survey of Greek civilization.

Senior elective course. Two hours a week during one term.

6. *Plato and Pre-Socratic Thought.* The Protagoras and the Phædo are the texts studied. The leading doctrines of Plato are analyzed and their relation to modern thought is pointed out. A parallel course of lectures in Pre-Socratic Thought, based on the fragments found in Ritter & Preller's *Historia*, is given.

Senior elective course. Two hours a week, during second term.

7. *The Lyric Poets.* Tyler's "Selections." The course comprehends, along with the interpretation of the poems, the origin and development of lyric poetry and its relation to Greek literature in general.

Senior elective course. Two hours a week, third term.

8. *Hellenistic Greek.* See Biblical Department.

LATIN.

Professor BIKLE.

Allen and Greenough's Latin Grammar and Harper's Latin Dictionary are recommended. The Roman method of pronunciation is used.

1. *Livy.* Selections from book I, and the Hannibalian War in Books XXI and XXII. Special attention is given to syntax and Livy's peculiarities of style. Roman History down to 200 B. C. is studied with care.

Freshman required course. Three times a week during the first term.

2. *Horace.* Odes, including a critical interpretation, and with special attention to Latin Prosody and the mythological and historical allusions of the text. Berens' Hand-book of Mythology is recommended.

Freshman required course. Three hours a week, second term.

During one or more terms of the Freshman year in connection with the reading of the Latin text, there will be drill in Latin Prose Composition, embracing a rapid review of Latin syntax, with oral and written practice in the principles involved.

3. *Cicero.* De Senectute, or De Amicitia. Drill in syntax, especially of the Latin subjunctive mode. Training, also, in reading Latin with expression.

Freshman required course. Three hours a week, third term.

4. *Tactius.* Annals or Agricola. A study of the history of the times along with the reading of the text.

Sophomore required course. Three hours a week, first term.

5. *Horace.* Satires and Ars Poetica. After reading some selected satires, the Ars Poetica is read and each student is required to prepare in writing an analysis of the poem.

Sophomore required course. Three hours a week, second term.

6. *Cicero and Pliny*. Letters, with numerous exercises in sight reading.

Sophomore required course. Three hours a week, third term.

7. *Quintilian*. Tenth Book. With summary and classification of the Greek and Roman authors. Informal lectures on Roman literature.

Junior (Classical) required course. Two hours a week, first term.

8. *Juvenal*. Satires. With full explanations, and study of the private and social life of the Romans, followed by a short course in Roman Antiquities.

Junior (Classical) course, required the second term, elective the third. Two hours a week, both terms.

9. *Terence or Plautus*. The *Andria* of Terence or *Captivi* of Plautus. The *Dramatis Personae* are assigned to special members of the class and the parts rendered both in Latin and in English.

Senior elective course. Two hours a week, third term.

10. *Latin Literature*. A course of lectures embracing a general survey of the whole field, and aiming to trace the rise and subsequent development of the various kinds of prose and verse among the Romans, and to portray the several periods of the literature in the light of the changing conditions under which the development took place; or

Roman History. A course of lectures covering the period from 200 B. C. to 200 A. D.

Senior elective course. Two hours a week for eight weeks, second term.

ENGLISH.

Professor HIMES and Mr. LEWARS.

1. *Rhetoric*. A study of the subject with the aid of a text-book. The aim of the course is (1) to acquaint the student with the principles of good writing, and (2) to lead to an appreciation of good literature. A course in composition is conducted in connection with this subject.

Freshman required course. One hour a week throughout the year.

2. *Composition*. Weekly themes on assigned subjects corrected and commented on by the instructor, in personal consultation with the student.

Freshman required course throughout the year.

3. *History of English Literature.* The text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore required course. Three hours a week, first term.

4. *History of American Literature.* A study of the subject with the aid of a text-book. Quizzes, collateral reading, papers.

Sophomore required course. Three hours a week, second term.

5. *Composition.* Weekly themes on assigned subjects. Advanced work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore required course, throughout the year.

6. *Elocution.* A course of lectures on the subject. Vocal exercises, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore required course. One hour a week throughout the year.

7. *Literary Criticism.* Text-book. Study of the principles of criticism. Collateral reading, papers on assigned subjects.

Junior required course. One hour a week, third term.

8. *Nineteenth Century Novelists.* A study of the development and structure of the novel. Lectures, collateral reading, papers.

Junior elective course. Two hours a week, third term.

1-8 Mr. LEWARS.

9. *Shakespeare.* Five or six plays are studied, the principal characters are analyzed and the most important and suggestive passages are read and interpreted before the class. The writing of dialogue is practiced.

Junior required course. Two hours a week, first term.

10. *Milton.* Four or five books of the *Paradise Lost* are studied; the views of many commentators are examined and compared; Milton's conception of the material and spiritual universe is set forth and elucidated.

Junior required course. Two hours a week, second term.

11. *Anglo-Saxon.* The translation of easy prose is begun at the second or third recitation in this subject and sight reading is undertaken after four or five weeks. About five hundred lines of the poetry of *Beowulf* or *Cædmon* and other writings are read in the latter half of the term. Comparative Philology receives considerable attention in connection with this subject.

Junior elective course. Three hours a week, first term.

12. *Middle English.* Chaucer, or Old English Ballads. This study is intended to acquaint the student with the old forms of English.

Connected with the recitations are brief talks on the structure, classification and development of languages and especially on word building.

Junior elective course. Three hours a week for six weeks, second term.

13. *Tennyson or Browning*. A number of the more important poems are read, the plan and the development of the thought are traced, and obscure expressions interpreted.

Junior elective course. Three hours a week for six weeks, second term.

14. *Writing and Speaking*. The preparation of declamations, essays, orations and debates is continued from the beginning of the Junior onward to the end of the Senior year. Subjects assigned are sometimes suggested by miscellaneous matters of interest, and sometimes by topics found in the text-books studied. To secure greater carefulness on the part of the student, the written work is commonly read privately and criticised by the instructor.

9-14 Professor HIMES

FRENCH.

Professor DRYDEN.

FRENCH. 1st year. Fraser and Squair's French Grammar, Part I., with exercises and drill on pronunciation and idioms, is completed during the first two terms. The third term is devoted to rapid sight reading to composition with syntactical, grammatical references, and to translations from Aldrich and Foster's French Reader, with special attention to the irregular verbs.

Scientific Freshman required course, two hours a week throughout the year, elective for Classical Freshmen.

FRENCH. 2d year. This class completes Fraser and Squair's Grammar, Part II. with all the exercises and special drill in syntax, and reads during the first term, Hugo's *La Chute*; second term, Moliere's *Le Bourgeois Gentilhomme*, and the third term, Dumas' *Les Trois Mousquetaires*. Talks on the contemporary prose writers are given from time to time, and a comparison is made with the literature of other nations.

Elective, three hours a week, throughout the year.

FRENCH. 3d year. Supplementary to the advanced written composition, Betis and Swan's *Les Faits de la Vie* is used for oral practice, thus bringing the student as closely as possible to the every-day affairs of life in France.

Syntax is reviewed and idioms are practiced with a rapid sight reading of the language as found in Halévy's *L'Abbe Constantin* and Labiche's *Le Voyage de Monsieur Perrichon* and *La Grammaire*. Then follows the translation with grammatical and literary interpretation of selections from the works of Hugo, Voltaire, Molière, La Fontaine, Halévy, Dumas, Daudet, Guy de Maupassant, Beaumarchais and Balzac, with a comparison of the lives of the authors and a study of the periods of French Literature.

Elective, three hours a week throughout the year.

GERMAN.

Professor GRIMM.

1. *Elementary German*. Vos, *Essentials of German*; Wenekebach-Mueller, *Glueck Auf*; Seidel, *Aus goldenen Tagen*. Easy conversation, based on the texts read.

Elective for Freshmen of the Classical Course, required of all Sophomores who did not absolve the course during their Freshman year. Two hours a week throughout the year.

2. *Syntax, Prose Composition, Conversation, Prose Readings, Easy Dramatic Poetry, Lyrics and Ballads*. Thomas, *Practical German Grammar*; Riehl, *Der stumme Ratsherr*; Hoffmann, *Historische Erzählungen*; Fulda, *Unter vier Augen*; Hatfield, *Lyrics and Ballads*; Vos, *Materials for German Conversation*. Private reading is required.

Junior required course; elective for Sophomores who have absolved Course 1. Two hours a week throughout the year.

3. *Epic Poetry, Classical Drama, Germany and the Germans*. Goethe, *Hermann und Dorothea*, or Scheffel, *Der Trompeter von Saekingen*; Schiller, *Wilhelm Tell*; Schweitzer, *Deutschland in Wort und Bild, Land und Leute*. Private Reading from German Prose. Crull, *Lehrbuch der deutschen Sprache*.

Elective for all students who have absolved Course 2. Two hours a week throughout the year.

4. *History of the German Language and Literature*. Lectures, supplemented by readings from representative authors. Advanced Composition and Conversation on the basis of Kron's *German Daily Life*. During the third term selections from essays on literary, historical or scientific subjects are read. Private Reading is required.

Senior elective course. Two hours a week throughout the year.

Opportunity for more extended German conversation and discussions

referring to German life, literature and culture is given to Juniors and Seniors in a voluntary Deutscher Verein.

5. *General Comparative Philology and Ethnology.* A lecture-course dealing with the linguistic Ethnology of the Indo-Germanic and Semitic peoples. The divisions, inter-relations, common characteristics, and original home of the Indo-Germanic and Semitic peoples respectively are pointed out and discussed, and the languages, literatures and religions of the individual peoples of the two families are sketched, special attention being given to the Germanic group.

Elective for Seniors. One hour a week throughout the year.

HISTORY, POLITICAL SCIENCE AND LAW.

Professors HIMES, BIKLE, DRYDEN and EVJEN and Messrs. BIKLE and HUTTON.

1. *European History.* Harding's Essentials and Myers' Mediaeval and Modern History are the text-books recommended. Collateral reading on suggested and assigned topics is pursued in connection with preparation for the recitation and students are encouraged to investigate, as much as possible, the facts set forth in the texts.

Freshman required course, two hours a week throughout the year.

Professor DRYDEN

2. *American Political History.* Johnston's American Politics, with references to Von Holst's Constitutional History, Schouler's History of the United States (1783-1865), Blaine's Twenty Years in Congress (1861-1881), McPherson's Hand-Book.

Sophomore required course. Three hours a week, third term.

3. *Political Economy.* Seligman's Principles of Economics. The theories of the text-book are brought, as often as possible, to the test of the student's personal observation and the true nature of the science is thus impressed. Problems for investigation are assigned to the members of the class, with direction to inquire into actual industrial and social conditions and operations.

Senior required course. Three hours a week for twelve weeks of the first term.

4. *Lectures on Money and Banking.* Theories of money and credit are examined in connection with a rapid survey of the monetary history of the United States. Particular attention is given to present conditions and tendencies.

Senior required course. Ten or twelve hours.

5. *International Law*. Lawrence's *International Law*. Occasional lectures on special topics, such as the prominent features in American diplomacy.

Senior required course. Three hours a week for the last twenty weeks of the year.

6. *Science of Government*. Bryce's *American Commonwealth* is used as a text-book. Free criticism of the author's views is encouraged; National and State constitutions are examined. The annual Presidential Message is studied and discussed.

Senior elective course. One hour a week, throughout the year.

2-6 PROFESSOR HIMES

7. *Roman Law*. Morey's *Outlines*. After a careful study of the text-book, an essay is required from each member of the class on a subject assigned for special investigation.

Senior elective course. Two hours a week during the first term.

PROFESSOR BIKLE

8. *Modern European History*.

Senior and Junior elective course. Three hours a week throughout the year.

During the first and second terms two hours a week are given to the Period of the Reformation, 1517-1648. Text-book: Fisher's "The Reformation," revised edition of 1906. During the third term, two hours a week, the history of the nineteenth century is studied. Text-book: Seignobos' "Political History of Europe."

Throughout the year, one hour a week is given to the study of historical method and philosophy of history. This course embraces search for documents, "auxiliary sciences," textual criticism, critical investigation of authorship, classification of sources, interpretative criticism, grouping of facts, constructive reasoning, exposition. Text-books: Langlois & Seignobos' "Introduction to the Study of History," and Bernheim, "Einleitung in die Geschichtswissenschaft." The texts for criticism are in Latin, being selected from "Monumenta Germaniae historica."

The Juniors who by reason of conflicting hours cannot complete this course in the third term, may, as Seniors, complete it in the third term, the year following.

The Seniors may pursue the entire course without interruption.

PROFESSOR EVJEN

9. *Constitutional Law*. Four lectures on the Constitution of the United States, including a discussion of the American Doctrine of Con-

stitutional Law, and a consideration of the commerce clause, of the clause forbidding the impairment by the States of the obligation of contracts, and of the guaranties of personal liberty and equality contained in the Fourteenth Amendment. (Omitted in 1907-8.)

Senior course, third term.

Mr. H. W. BIKLE

10. *Talks on Law.* Six lectures on domestic relations, decedents' estates, insurance and commercial law and finally those phases of the law with which every citizen sooner or later in life has some experience.

Senior course, third term.

Mr. A. J. W. HUTTON

CHEMISTRY.

Professor BREIDENBAUGH, Mr. STOVER and Mr. DICKSON.

1. *Elementary Inorganic Chemistry.* Lectures, laboratory work, quizzes and examinations. The student is expected, in addition to the outline of work provided, to have some approved reference book on Chemistry. This course covers the general principles of Chemistry with a study of the elements and their compounds. A practical review is given at the end of the year, determining compounds by their properties.

Junior (Classical) required course. Three periods a week throughout the year as in course 1.

2. *Elementary Inorganic Chemistry.* Lectures, laboratory work and quizzes.

Freshman (Scientific) required course. Three periods a week throughout the year.

3. *Qualitative Analysis.* Lectures and quizzes on reactions and methods accompanying the laboratory work, with close personal supervision.

Required (Scientific) course. Two periods a week throughout the Sophomore and five periods the first term of Junior.

4. *Quantitative Analysis.* The first term is occupied with determinations of definite compounds, the second with mineral analysis.

Junior (Scientific) required course. Five periods a week during the second and third terms.

5. *Organic Chemistry.* Lectures, text-book work and quizzes illustrated in the laboratory.

Senior (Scientific) elective course. Three periods a week during the first and second terms. Also open as an elective to Seniors in the Classical course.

6. *Qualitative Analysis.* Similar to course 3.

Senior (Classical) elective course. Two to four periods a week throughout the year.

7. *Special Analytical Methods.* Water, milk, sugar, minerals, rocks, etc.

Senior (Scientific) elective course. Two to four periods a week throughout the year.

GEOLOGY AND MINERALOGY.

Professor BREIDENBAUGH.

1. *Geology.* Lectures, with reading references, principally to the works of Dana and Le Conte, accompanied by quizzes and topical examinations. Each student is required to write at least one paper illustrating, from his own observations, the principles of inorganic Geology.

Senior required course. Three hours a week during the second and third terms.

2. *Mineralogy.* The crystal form and physical properties of minerals are studied by means of the mineralogical collection. Afterwards each student is required to determine at least one hundred minerals by their blowpipe characteristics. This is followed by a brief course in Lithology and topographical Geology.

Senior elective course. Two periods a week throughout the year.

Botany. Class and field work in Systematic Botany. Each student is required to determine and mount specimens of at least fifty species of Phaenogams.

Sophomore required course. One period a week during the second half of the year.

PHYSICS.

Professor PARSONS.

a. *Elements of Physics.* Mechanics, Properties of Matter and Heat. This course includes three hours of lecture and class work and a minimum of three hours of laboratory work per week throughout the third term.

Required of all students in the Junior year (third term), excepting those taking Physics 1.

b. *Elements of Physics.* A continuation of Physics a. Sound, Light and Electricity. Three hours of lecture and class work, and a minimum of three hours of laboratory work throughout the first term.

Required of all students in the Senior year, excepting those who have taken Physics I.

1. *General Physics*. A complete course in the Principles of Physics, comprising Mechanics, Properties of Matter, Heat, Sound, Light, and Electricity; the instruction being carried on by illustrated lectures, recitations, and laboratory work. Three hours of class work and a minimum of three hours of laboratory work throughout the year.

General elective course, open primarily to those in the Junior class.

3. *Advanced Laboratory Physics*. A course in laboratory experiments open as an elective to those students who have finished the laboratory work of Physics I, or its equivalent. Three to six hours a week throughout the year.

4. *Theoretical Physics*. An advanced course in Mathematical Physics, including the Principles of Mechanics, Vibratory and Wave Motion and Electricity, given by lectures; and accompanied by recitations from Watson's Text-book of Physics. Two (or three) hours a week throughout the year.

Elective, open to students with a sufficient preparation in Mathematics and Elementary Physics.

BIOLOGY.

Professor STAHLEY.

The biological branches included in this course are given as electives during the Junior and Senior years. The Junior work is a *general culture course*, and is calculated to give the student a general understanding of current biological questions; it is offered to both Seniors and Juniors at the same time. The regular Senior work is more medical in its cast, and in conjunction with the Junior work, provides an admirable preliminary preparation for the study of Medicine.

The work is carried on by lectures, demonstrations, dissections, drawings, quizzes and frequent written examinations. There are two well-lighted laboratories, provided with all needed instruments and apparatus, such as microscopes, microtomes, paraffine bath, incubator, etc. The branches are pursued in the following order:

JUNIOR YEAR.

1. *General Biology*. Three periods a week for ten weeks. This branch acquaints the student with microscopic technique and general laboratory methods, whilst he studies selected types of plants and animals, taken from the lower forms of life, as these are best adapted

to demonstrate essential characteristics. The purpose is to ascertain fundamental facts of structure and life processes, with the significant relationships in the two great kingdoms of organic nature.

2. *Invertebrate Zoology*. Three periods a week for eight weeks. Representative types in this great group of animals are dissected. The basal plans in organization, with the varying modifications in form and function, are made subjects of practical study.

3. *Vertebrate Zoology*. Three periods a week for eight weeks, followed by two periods a week for ten weeks.

Fundamental vertebrate features of structure and function are carefully considered, whilst dissecting type forms, beginning with the lowest vertebrates known, and proceeding through the various classes, culminating with the Mammals; the latter class claiming special attention. Questions relating to comparative morphology and physiology of vertebrate animals are freely discussed.

SENIOR YEAR.

4. *Human Anatomy and Physiology*. Three periods a week for nineteen weeks.

Special attention is given to osteology, joints, ligaments and muscles. Tramond's preparations, consisting of real bony joints, with accurately placed artificial ligaments, and Azou's dissectable manikin, provide ample facilities for this part of the work. In this, as in all the branches of the course, physiological processes are constantly discussed.

5. *Mammalian Histology*. Three periods a week for eleven weeks.

With the aid of prepared microscopic slides, the student studies the minute anatomy of the different tissues of the body, and their actual relationships in the different organs. He also learns practically how to fix, harden, imbed, section, stain and mount the important tissues; thus acquiring a practical knowledge of histological work.

6. *Embryology*. Three periods a week for six weeks.

The principles of maturation and fertilization of the germ elements are considered. The stages of segmentation are observed in the ova of the Frog and Fish. The development of the Chick is studied. Entire mounts are made, as well as mounts of the serial sections of the incubating egg, from the first hour of incubation to the fifth day, when the organs are practically all formed. This branch constitutes a fitting close to the course, as it exhibits the steps in the development of the individual animal, and also epitomizes the history of the animal kingdom in general.

HYGIENE.

Professor STAHLEY.

1. *Sanitary Science.* Lectures. House, municipal, state and national sanitation in their varied and rapidly developing new features are dwelt upon with the idea of furnishing a comprehensive yet intelligent outline of the subject.

Senior elective course. One hour a week throughout the year.

2. *Physical Culture.* This end is sought under medical guidance in the Gymnasium during the college year from November 1 to April 1. A physical examination of each student is made when he enters college and such kinds of gymnastic exercises are prescribed as seem indicated. The purpose is to encourage the promotion of health and physical vigor as necessary for successful mental application. Since much harm is often done by injudicious physical exercise, special effort is made to advise those who are suffering from defective bodily conditions how they may be helped by hygienic methods and the selection of forms of exercise particularly suited to their case.

BIBLICAL DEPARTMENT.

Professor EVJEN.

1. *Old Testament History.* The books of Genesis, Exodus, Numbers and Joshua furnish the material to be mastered. In connection with the Scripture text a manual of biblical geography and history is used.

Freshman required course. One hour a week throughout the year.

2. *Old Testament History.* Jewish history from the death of Joshua to the Division of the Kingdom. The biblical material is found in Judges, Samuel and Kings; the geographical and historical manual is continued.

Sophomore required course. One hour a week throughout the year.

3. *Biblical Study.* (a) The Life of Christ. (b) One of the Gospels in Greek.

Junior elective course. Four hours a week during the third term.

4. *New Testament Study.* The privilege of selecting the books to be studied is accorded to the class. Acts has been chosen this year.

Senior elective course. One hour weekly throughout the year.

GENERAL COLLEGE ORDERS.

EXAMINATIONS.

Examinations are held at the close of each term, or when a subject is finished. When a student is unavoidably absent from this examination, and his absence is excused by the Faculty, he is examined, at the discretion of the Faculty, either before leaving, or at the opening of the following term before entering his name on the roll of his class.

If a student be absent for some time from the Institution, he must, on re-entering, sustain an examination upon the studies to which his class has attended during his absence.

RECORDS.

A careful record of the attendance, scholarship and conduct of each student is kept; a general statement of which record is transmitted to parents or guardians at the close of each term.

DEGREES.

To members of the graduating class in full and regular standing diplomas are granted, conferring in the Classical Course the degree of *Bachelor of Arts*, and in the Scientific Course the degree of *Bachelor of Science*.

The degree of *Master of Arts* and *Master of Science*, according to the previously received Bachelor degree, is conferred, of course, on Bachelors of three or more years' standing, provided that applicants for this degree make application therefor to the Faculty, in writing, at least one week before the annual Commencement.

TERMS AND VACATIONS.

The annual Commencement is held this year on the second

Thursday of June. Regularly the first term begins on the second Thursday of September, and continues fourteen weeks; the second term begins two weeks after the close of the first term, and continues twelve weeks; the third term begins one week after the close of the second, and continues ten weeks, until the day of the annual Commencement. The intervening periods of approximately two, one and thirteen weeks are devoted to the vacations.

It is highly important for students to be punctual in entering upon their duties at the beginning of the term.

Unexcused absences from recitations are counted as zeros upon the grades.

The attention of parents and guardians is especially called to the fact that absences from recitations, whether at the opening of terms, or at other times, are not excused except for sickness or imperative necessity.

EXPENSES.

The necessary expenses of the collegiate year, exclusive of books, clothing, furniture and traveling expenses, are as follows for each student:

Board for 37 weeks,		\$77 00	\$100 00	\$130 00
First term,				
	Tuition,	\$12 00	30 00	30 00
	Gen. Exp.,	18 00		30 00
Second term,				
	Tuition,	\$9 00	23 00	23 00
	Gen. Exp.,	14 00		23 00
Third term,				
	Tuition,	\$9 00	22 00	22 00
	Gen. Exp.	13 00		22 00
Room rent and heat (half room),			12 50	62 50
Washing,			12 00	12 00
			<hr/>	<hr/>
Total,		\$176 50	\$227 00	\$279 50

Board may be secured at prices varying from \$8.50 to \$10.50

a month in clubs; and from \$12.00 to \$14.00 in boarding houses. The average price paid this year has been about \$11.00.

A fee of \$1.50 a term for contingent expenses is charged to students not rooming in college buildings.

All members of the Senior class, upon their entrance on the last session of their course of study, pay to the Treasurer, with their college bills, an extra fee of \$5, which is refunded in case of failure to graduate.

LABORATORY CHARGES.

Students in the Scientific Course in Chemistry are charged a term fee of \$5.00 for the use of chemicals and general apparatus. Glassware and other apparatus of individual use are supplied at cost prices, each person being charged with each article received, and credited with the same on its return in good condition. The expense for this item in the first outfit has been about \$7.00, after which, with proper care, it need not exceed \$1.50 a term. Students in general chemistry pay, for the course, a desk fee of \$10.00 for the use of chemicals and apparatus, and the cost price for all articles broken; this need not exceed \$1.00 a term. The fee for supplies in elective Mineralogy is \$1.50.

A fee of \$4.00 a term is charged in the department of Biology, for the use of material and apparatus.

Students in Physics, taking laboratory work are required to pay a fee of \$3.00 per term and in addition make a deposit of \$2.00 a term to cover breakage or damage to apparatus, etc.

Parents and guardians may intrust funds for students to any member of the Faculty, and the funds will be applied as may be required.

Tuition and other college dues for each term must, in all cases, be paid in advance. No student will be allowed to recite with his class until he has shown the Professor a receipt from

the College Treasurer, or a note stating that he has made some satisfactory arrangement with the Treasurer.

ROOMS AND HEATING.

Students are required to lodge in the college dormitories, special cases excepted.

Unless all the available rooms of the college are occupied, there is no remission of the charge for room rent, except to students whose parents reside in town.

Rooms becoming vacant can be assigned at any time, preference being given according to class, to be occupied after the removal of the former occupant, and, if the person to whom the rooms are assigned so desire, the furniture in them shall be removed.

The charges for room rent and steam heat for the several rooms, given below, are for full use of the room; if two students occupy a room they divide the expenses. The annual charge is given first, and in parenthesis the division of this charge between the first, second and third terms of the collegiate year. E—East Division, M—Middle Division, and W—West Division, S—South College.

At \$17.00 (6.00, 7.00, 4.00) : 4, 6 W ; 1 M ; 8 E.

At \$19.00 (6.50, 7.75, 4.75) : 5, 7 W ; 5, 7, 9, E.

At \$21.50 (7.50, 8.75, 5.25) : 1, 3 W ; 1, 3 E.

At \$26.75 (9.25, 11.25, 6.25) : 4, 6 E.

At \$27.75 (9.50, 11.00, 7.25) : 2, M.

At \$29.75 (10.25, 12.25, 7.25) : 3, 4, 5 M.

At \$32.00 (10.75, 13.00, 8.25) : 2 W ; 36 S.

At \$33.00 (11.25, 13.25, 8.50) : X S.

At \$35.50 (11.75, 14.50, 9.25) : 14, 15, 16, 17, 18, 19, 24, 25, 26, 27, 28, 29, 34, 35, 36, 37, 38, 39 E ; 6, 11, 16 M ; 12, 13, 14, 15, 20, 21, 22, 23, 28, 29, 30, 31 W.

At \$40.00 (14.00, 16.00, 10.00) : 22, 23, 24, 25, 30, 31, 32, 33 S.

At \$45.00 (15.00, 18.00, 12.00) : 26, 27, 28, 29 S.

At \$45.25 (15.50, 17.75, 12.00) : 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33 E; 8, 9, 10, 11, 16, 17, 18, 19, 24, 25, 26, 27 W.

At \$47.75 (16.75, 19.00, 12.00) : 9 M.

At \$50.00 (17.00, 20.00, 13.00) : 20, 21, 34, 35 S.

At \$56.50 (20.25, 22.00, 14.25) : 8, 10, 12, 14, 18, 20 M.

At \$75.00 (26.00, 30.00, 19.00) : 17 and 19 M; 21 and 22 M.
—Suites of two; also, 1, 2, 3, 4, 5, 6, 7, 8, S.

At \$90.00 (32.00, 36.00, 22.00) : 10 and 12, 11 and 13, 15 and 17, 16 and 18, S—suites of two.

At \$125.00 (43.00, 50.00, 32.00) : 9, 19, S—suites of three.

Rooms 3, 4, 5, 8, 10, 12, 14, 18 and 20, M, include a large study and a good-sized bed-room. Even numbers, except 22, are on the north side of the building.

EQUIPMENT.

MUSEUM.

The museum contains varied collections of fauna and flora and minerals, all of which are freely used in instruction. The Mineralogical Cabinet contains over 6,000 specimens, including not only very full suites of the more common and more important minerals but also good specimens of many of the rarer minerals. The collection in Lithology numbering 3,000 specimens and of iron in Metallurgy, have, by recent additions, become fairly representative in the most important departments of these sciences. The Botanical Collection of 6,000 specimens, mainly presented by Miss Elizabeth C. Morris, of Germantown, Pa., is well arranged and contains a full representation of American Flora. A beginning has been made of a Chemical Museum—to contain specimens of raw and manufactured materials in chemical industries. Friends of our Institution can greatly aid us by additions to these collections.

LITERARY SOCIETIES.

Two literary societies are connected with the College, the Phrenakosmian and the Philomathæan. These exert a favorable influence in the intellectual and social culture of their members. The exercises consist of music, essays, orations and debates. The practical acquaintance with parliamentary law here formed makes these societies the best schools for free citizenship. The halls occupy two wings on the third story of the Recitation Hall, and are conveniently and handsomely furnished. Their sessions are held every Friday evening.

A reading room, managed by these societies and the Y. M. C. A., contains a great variety of periodical literature.

LIBRARIES.

The College Library, to which all students have access without charge, contains many works of reference. During term time the Library is open for consultation and the drawing of books four hours each week day, except on Saturday, when it is open for two hours.

The income of a fund invested for the purpose provides for frequent additions of the best publications.

The Libraries of the Literary Societies comprise a large number of well selected and standard volumes, which are annually increased through the income of separate funds.

These libraries are accessible to the members of the societies under their respective regulations, and are open for the issue of books on Wednesday at 4 P. M. and Saturday at 10 A. M. during term time. They are in the same hall with the College Library. In addition to several thousand partly classified but unbound pamphlets.

The College Library contains,	15,296 volumes
The Philomathæan Library contains	6,690 volumes
The Phrenakosmian Library contains	5,840 volumes
Total,	27,826 volumes

Through the kindness of Mrs. Mary G. Stuckenberg the library facilities of the College have been increased by the gift of the large private library of her husband, the late Prof. J. H. W. Stuckenberg. This valuable collection contains over 2,000 volumes. These are not included in the foregoing enumerations.

SCHOLARSHIPS.

A number of permanent scholarships, securing free tuition, have been endowed and are under the control of synods, congregations, or individuals. C. W. Thompson, Esq., of Lancaster, has established a scholarship for the purpose of giving the benefit of a collegiate education to the most successful and

indigent pupil who shall pass through the prescribed course in the High School of Gettysburg.

PRIZES.

MUHLENBERG FRESHMAN PRIZE.—The interest of a fund of five hundred dollars, contributed by Prof. F. A. Muhlenberg, D.D., LL.D., is given at the close of the year to that member of the Freshman class who, upon examination, is found to have attained the highest degree of scholarship in the studies of the Classical course.

BAUM MATHEMATICAL PRIZE.—Charles Baum, M. D., Ph. D., of Philadelphia, has contributed five hundred dollars, the income from which is to be given annually to that member of the Sophomore class who shows the greatest proficiency in Mathematics.

HASSLER LATIN PRIZE.—Mr. Charles W. Hassler has furnished a fund, the interest of which is annually expended for the purchase of a Gold Metal, to be presented to the student of the Junior class, who, at the end of the year, shall be the best Latin scholar.

REDDIG ORATORICAL PRIZE.—Mr. Clarence Jacob Reddig, of Shippensburg, contributes annually the sum of twenty-five dollars as an Oratorical Prize, to be contended for in public by the Junior class, on Tuesday of Commencement week.

GRAEFF PRIZE.—This prize was founded by Mr. John E. Graeff, of Philadelphia. The sum of \$30 is awarded for the best English essay from the Senior class, on a subject previously assigned. The decision is made by a committee appointed by the Professor of English Literature.

GIES PRIZES IN DEBATE.—William J. Gies, Ph.D., professor in Columbia University, offers through the Pen and Sword Society three prizes of \$36, \$24 and \$15, respectively, for the encouragement of skill in Debating. The first contest takes

place about the middle of November between teams chosen by the Freshman and Sophomore classes, respectively, and the winning team is rewarded with \$15. The second contest, between the winning team and a team from the Junior class, takes place about the middle of March, with \$24 to the winners. The third contest, between the second victors and a team from the Senior class takes place about the middle of May, with a reward of \$36 to the winners. Winners of the first prize are excluded from further competition.

PITTSBURG PRIZE IN CHEMISTRY.—The Pittsburg-Gettysburg Club have established a prize of \$25, to be given to the student who does the best work in Chemistry during the Junior year of the Scientific Course.

Students in special courses are not admitted to competition for any of the foregoing prizes.

BUILDINGS.

PENNSYLVANIA HALL, erected in 1836-38, was remodeled and improved in 1889. It contains eighty-six rooms for students, many of them *en suite*, so that those who may wish to do so can have separate study and sleeping rooms. In this building are the reading rooms of the Literary Societies and the large room used by the College Y. M. C. A. These rooms are heated by steam, and water pipes and lavatories connected with the town system of water works are on the first floor.

SOUTH COLLEGE, erected in 1897, is a building of three stories containing rooms for about fifty students. It is finished entirely in hard wood, is heated with steam, has hot and cold water on each floor and lavatories in convenient places. The first floor has eight rooms, each with open fire place, tile hearth and spacious closets. These rooms may be used by one or two occupants, as preferred. On the second floor all rooms are *en suite*, each suite consisting of a study with one bed-room

or two. These are also provided with hearths, closets, etc. The third floor is divided into sixteen single rooms.

THE RECITATION HALL, erected in 1888-89, is used for general college purposes. On the first floor are the library room and office, the President's office, the reception room, and recitation rooms. The second floor has recitation rooms. The third floor has in the front centre a large museum room with valuable collections. In the rear centre are a mineralogical laboratory and additional recitation rooms. In the north wing, is the hall of the Philomathæan Society, in the south wing the hall of the Prenakosmian Society. In the basement is the laboratory of the Department of Physics which, with the recitation rooms above it, has this year been fitted up and partially equipped with a fairly extensive selection of high-grade apparatus. The laboratory is supplied with water, gas and electric power, both the alternating current and direct current, from dynamos and storage cells.

THE BRUA MEMORIAL CHAPEL, erected in 1889-90, is the gift of the late Col. John P. Brua, U. S. A., as a memorial to his parents. This building is used for morning prayers, for Commencement exercises, lectures and other occasions requiring a large audience room.

THE CHEMICAL LABORATORY is a frame building, erected in 1872 and in 1890 converted to its present use. It contains on one floor a large lecture room, an office, store-rooms, chemical-room, balance-room, and two laboratories—one for general chemistry, with desk room for forty-eight students, the other for analytical chemistry, with desk room for forty-eight students. The building is fitted with the most approved appliances; gas and water at each desk; there are ample hoods, a water-distilling apparatus and large sand bath, and other necessary apparatus. The balance-room contains balances set

on walls especially built for them. In the basement are an assay-room and a store-room.

THE ASTRONOMICAL OBSERVATORY, erected in 1875, is furnished with an achromatic telescope, having an object glass of six and one-half inches, with a transit instrument, chronometer and other appliances.

THE GYMNASIUM has on the first floor ample dressing rooms and bathing facilities, and a base ball cage. On the second, or main floor, a class of sixty members can be accommodated for gymnastic drill. The selection of specialized apparatus in light and heavy gymnastics is varied and complete. The Professor's office, where all the physical tests and measurements are taken, is also on this floor, and is furnished with a full set of anthropometric apparatus.

On the gallery there is a first-class "Roberts' patent" running track with seating accommodation for visitors.

The gymnasium is open at stated times every afternoon and evening and Saturday all day, aggregating twenty-four hours each week, apportioned between regular class practice and general practice.

Athletic sports are encouraged, but under such regulations, as it is believed, prevent them from becoming a source of demoralization to the students, or interfering with the legitimate work of the Institution. A student who has not first secured the permission of his parents is not allowed to engage in any public contest.

ATHLETIC FIELD. Immediately north of the college buildings is the athletic field, which is carefully graded and securely inclosed and covers an area of over four acres. It affords room and facilities for all kinds of out-door sports.

THE BOILER HOUSE supplies the steam required for heating all the college buildings, and has capacity for more.

Besides these buildings there are on the campus the Presi-

dent's house, a double house for Professors, and four halls erected by Greek Letter Societies.

GENERAL ALUMNI ASSOCIATION.

The Alumni Association of Pennsylvania College holds its regular annual meeting on Tuesday evening of Commencement week. In 1876 the Board of Trustees granted the Association the privilege of nominating six of their number to membership in the Board, to fill alternate vacancies till the whole number is secured.

The officers of the association are: President, Charles S. Duncan, Esq., class of '82; Vice Presidents, Charles J. Fite, '98; Prof. Charles H. Huber, '92; Hiram H. Keller, Esq., '01; Secretary, Clyde B. Stover, '94; Treasurer, Mr. H. C. Picking, '79.

COLLEGE PERIODICALS.

The *College Mercury*, published monthly in term time under the control of the Literary Societies, is a literary journal sustained by the contributions of students and alumni. *The Gettysburgian*, under the private control of students, is published weekly and makes a specialty of college and town news. *The Spectrum*, an annual publication of the Junior class, contains pictorial representations of the College with its various organizations and surroundings as well as useful statistics about students and alumni. All aim at enlarging the means of communication between the College and its graduates, former students and friends. These enterprises are cordially commended to the patronage of those interested in the welfare of the Institution.


TEACHERS.

The attention of School-boards and others desiring teachers is called to the fact that it is frequently in the power of the Faculty to recommend suitable persons. Many graduates fill

successfully important positions in public and private institutions.

FORM OF BEQUEST.

I give, bequeath and devise to "The Trustees of Pennsylvania College, of Gettysburg, in the County of Adams," in the State of Pennsylvania, and their successors and assigns forever, the sum of ————— (or shares in the bank of —————, or any other personal property or real estate, as the case may be), to be applied to the Endowment Fund of the Institution.

 *A bequest to a benevolent corporation, to be legal, must be made at least 30 days before the death of the Testator, in Pennsylvania, and 60 days in New York.*

PREPARATORY DEPARTMENT.

AIM OF THE DEPARTMENT.

Stevens Hall is located within two minutes' walk from Pennsylvania College. The object of its foundation, which the school has steadily kept in view, was to present to the public AN ACADEMY UNDER THE CONTROL OF COLLEGE AUTHORITIES. The advantages of such a combination are obvious. To students who desire to prepare for college it offers a course of preparatory instruction under the eyes of their future Professors and in the line of the college requirements. The school, being open at all times to visits from instructors in the College, and receiving from time to time their counsel, is able to give to those students who desire it just that preparatory study and drill which will lead to the most profitable and creditable work in the college classes. Time is concentrated upon the studies in which it is needed, and STUDENTS WHO HAVE SATISFIED THE REQUIREMENTS IN THE PREPARATORY DEPARTMENT ARE ADMITTED TO THE FRESHMAN CLASS OF THE COLLEGE UPON THE PRINCIPAL'S RECOMMENDATION WITHOUT FURTHER EXAMINATION. On the other hand, students who do not expect to enter College, and who desire only an English education, preparatory to business, teaching, etc., may find in this school an academy of high grade under the supervision of college Professors, in a college atmosphere, and with free access to the college libraries. Near association with a college is a stimulus to study, and often awakens a desire for a higher education.

GOVERNMENT.

The Preparatory Department, though under the control of

the College authorities, has a separate building of its own and is under the special direction of a Principal who gives to it his whole time in the work of instruction and supervision. He is aided by three assistants.

The school seeks to develop intelligent Christian gentlemen. The discipline aims at making the pupil SELF-GOVERNING, and at leading him to habits of self-respect and self-control by training the judgment, quickening the conscience, and cultivating a delicate sense of honor.

When it is evident that a pupil has no proper appreciation of his opportunities, and is harming the school rather than receiving benefit from it, his parents are asked to remove him.

During study hours students are expected to be in their rooms, which are subject to frequent visits by instructors.

ADMISSION.

Students are admitted at any time to the grade for which they have been qualified by previous study. But it is highly important that the student enter the school as early in the course as possible. With the present requirements for admission, a hurried preparation is generally unwise and tends to embarrass the student's future progress, especially in Latin and Greek. Accurate, technical scholarship, at which the school aims, can hardly be secured without long drill, especially in the languages. Without intending at all to discourage those whose circumstances, rather than their desire, lead them to attempt short preparation, all who can are urged TO LAY THE FOUNDATION CAREFULLY. An additional year of time at the beginning is always a gain in the ease and success with which future work is done. The fact, however, is recognized that students differ widely in ability and industry, and every opportunity is afforded those who can do so to cover the required work in a shorter time.

No examinations are required for admission, the pupil being

at once assigned to the class for which his previous studies seem to have fitted him. If, upon trial, it be found that a mistake has been made, the Principal reserves the right to transfer the student to the proper grade.

Students who have advanced sufficiently in Mathematics and the English branches to enter the Freshman class, but have not studied Latin or Greek, will here find special arrangements made for their rapid advancement. Girls will be received as day scholars. A study hall has been reserved for their exclusive use and they are not obliged to mingle with the general class except at regular recitation periods. When at school they are under the care of a lady superintendent. Refined homes for them can be secured in town at moderate rates. They will be under the care of the Principal, who will be fully informed of their conduct.

RELIGIOUS EXERCISES.

On Sunday morning the students of the Preparatory Department are required to attend worship with the college instructors and students in the College Church, or such other place of worship as their parents or guardians may designate. A Bible class is conducted by the Principal every Sunday morning and is a part of the regular course of study. Chapel service is held every morning except Saturday.

COURSE OF STUDY.

The course of study is designed to prepare students of either sex, who desire to enter college, for the Freshman class, and to give students who do not expect to enter college, so far as it can carry them, a wide intelligence, true culture, and habits of careful and sound thinking. New and important subjects have been added, and increased attention is given to the lower classes. All students of the school have free access to the College Library, and students over fifteen years of age

may join either of the College Literary Societies. There is also a Literary Society conducted by the students of the Department.

There is no musical course in the school, but arrangements for instruction at moderate terms may be made in the town without conflict with school work.

A report of the work and conduct of each student is sent home at the end of each term, and at any other time upon request or when the Principal thinks it desirable.

There are two courses, the Classical (with Greek), and the Scientific or Academic (with German, Physics and History). The subjects taught are as follows:

LATIN.

Middle Class. Comstock's First Latin Book. Second year Latin, with continuous drill in the grammar; analysis of words and sentences; prose composition based on the text.

Sub-Freshman Class. Cicero's Orations, first three against Catiline, with sight translation of advance passages; drill in syntax; Bennett's prose composition based on Cicero. Virgil's *Æneid*, I-III, with study of Latin Prosody; Mythology.

GREEK.

Middle Class. White's First Greek Book; complete survey of the language with syntactical analysis of the first eight chapters of Xenophon's *Anabasis*; study of word-formation, rules of syntax, historical allusions; special drill on vocabulary.

Students in the Scientific course take English and French History (Montgomery's Series) instead of Greek.

Sub-Freshman Class. Xenophon's *Anabasis*, I-III, with continuous drill in grammar and Attic forms. Translation at sight of book V, with special study of moods and tenses.

Students in the Scientific course will take instead of Greek Coleman's *Physics* and Vos' *Essentials of German* during the year.

Students who are prepared for college in all the other entrance re-

quirements will be allowed to concentrate upon Latin, Greek and Mathematics, and a special class will be organized for their benefit.

MATHEMATICS.

Middle Class. Arithmetic completed, with the Metric system; Commercial Arithmetic. Wells' Academic Algebra through Simple Equations containing two unknown quantities.

Sub-Freshman Class. Algebra completed with special drill in the Equation. Drill in Geometrical Figures with Kitchener's Note Book as a guide. Wentworth's Geometry, I-III; solution of original problems.

HISTORY.

Middle Class. Montgomery's History of the United States.

Sub-Freshman Class. Grecian and Roman History with attention to social customs, education, literature, thought and art. Reading from standard works in history and biography.

ENGLISH.

Middle Class. Buehler's English Grammar. Reading, recitation, composition and declamation. Spelling, punctuation, capitals. Narration and description. Study of outlines.

Literature: Church's Story of the Iliad, Cooper's Last of the Mohicans, Longfellow's Miles Standish and Evangeline, Dickens' Christmas Carols, Tennyson's Enoch Arden, Irving's Sketch Book.

Sub-Freshman Class. Syntactical analysis. Buehler's Exercises in English. Study of the paragraph; figures, types of style. Abstracts and outlines. Declamation. Composition.

Literature: Macauley's Essays on Frederick the Great, Addison's Sir Roger de Coverley Papers, Scott's Ivanhoe and Lady of the Lake, Hawthorne's Scarlet Letter, Eliot's Silas Marner, Tennyson's Idylls of the King, DeQuincey's The Flight of the Tartars.

NATURAL SCIENCE.

Middle Class. Coleman's Physics. Physiology with direct reference to Hygiene.

Sub-Freshman Class. Eclectic. Physical Geography. Natural laws and forces.

BUSINESS.

A course of instruction is given in Book-keeping when desired. This course is intended to fit young men for a business career.

PHYSICAL EXERCISE.

The building is surrounded with large and pleasant grounds adapted to football, baseball, tennis and other out-door sports; and in addition to this the students enjoy all the privileges and instruction of the College Gymnasium.

BUILDINGS AND ROOMS.

The building, located on a slight eminence north of the town, is heated throughout by steam, and supplied with pure artesian water. A comfortable toilet room has been placed on the first floor. The rooms on the third floor are now arranged *en suite* with a broad archway separating the study and sleeping apartments. On the second floor the rooms are separate.

The rooms are furnished with heavy oak wardrobes, bookcases, washstands, tables and chairs. Iron enameled beds, complete with springs and mattresses, are also provided. Two students occupy two rooms, one for studying, the other for sleeping. The rooms are furnished with two single bedsteads, mattresses, chairs, table, bookcase, clothes closet, window curtains and washstand. The other articles needed for the rooms, and *to be furnished by the occupants*, are as follows: Wash-bowl and pitcher, mirror, lamp, oil-can, slop-pail and carpet. The carpet for a third floor study room is $10\frac{1}{2}$ by $10\frac{1}{2}$, sleeping room $10\frac{1}{2}$ by 11, for a second floor study room 10 by $12\frac{1}{2}$. Each student must also be provided with towels, three sheets for single bed, two pillow slips, a spread, comforts and blankets, and a feather pillow.

EXPENSES.

Tuition,	\$12 00	\$9 00	\$9 00
Room-rent and Use of Furniture,	8 25	7 00	7 00
Steam Heat,	3 60	4 20	1 80
Gymnasium Fee,	2 00	2 00	2 00
Incidentals,	13 00	11 50	9 50
*Athletic Fee,	2 00	2 00	2 00
	\$40 85	\$35 70	\$31 30

Students do not board in the building, but in clubs and private families at a cost of from \$2.10 to \$3.50 a week. Washing is \$1.75 a month. A deposit of one dollar will be required at the beginning of the year to insure the return of keys and the proper care of the room. This will be returned to the student at the end of the year if no damage has been sustained. Students who do not room in the building are not charged for room-rent or for heating.

All bills with the Institution must be paid at the beginning of each term. Money entrusted to the Principal for the use of students will be expended as desired.

For further information address

REV. CHARLES H. HUBER, A.M.,
Principal.

*By payment of this fee students are entitled to free admission to all inter-collegiate athletic contests. Students who do not feel able to pay the fee can be excused by making application to the proper authority.

REGISTER OF STUDENTS.

COLLEGIATE DEPARTMENT.

GRADUATES.

William Ira Book, B.E., Juniata Coll., '96 M.E., '98	<i>Gettysburg.</i>	123 Carlisle St.
Rufus Miley Weaver, A.B., Penn. Coll., 1907	<i>Gettysburg,</i>	129 Baltimore St.

SENIOR CLASS.

CLASSICAL COURSE.

Markley Connel Albright	<i>Hatfield,</i>	14 M.
David Lincoln Baker	<i>Abbottstown,</i>	22 M.
Albert Daniel Bell	<i>York,</i>	9 W.
William Albert Berkey	<i>Stoyestown,</i>	7 M.
Grace Maria Blocher	<i>Gettysburg,</i>	400 Carlisle St.
Henry Michael Bower	<i>Hughesville,</i>	16 W.
Edwin Allan Chamberlin	<i>Hughesville,</i>	5 W.
Harry Watson Davison	<i>Greencastle,</i>	39 E.
Oscar Carlton Dean	<i>Middletown, Md.,</i>	1 and 3 E.
Harry Dollman	<i>Orangeville,</i>	11 E.
Cora Myrtle Drum	<i>Gettysburg,</i>	39 York St.
Zenas Orton Fiscus	<i>Vandergrift,</i>	33 S.
Frank P. Fisher	<i>Warrior's Mark,</i>	25 E.
James Aldis Fritz	<i>Blairsville,</i>	32 E.
Lillia Rebekah Gantt	<i>Frostburg, Md.,</i>	3 Campus.
Herbert Spencer Garnes	<i>Fisher ville,</i>	3 M.
Frederick Melanchthon Harmon	<i>Hazleton,</i>	1 York St.
Warren Bailey Heilman	<i>Baltimore, Md.,</i>	11 W.
Mary Hay Himes	<i>Gettysburg,</i>	130 Carlisle St.
George Walter Kessler	<i>Sac City, Ia.,</i>	19 S.

Guy Beaver King	<i>Fairfield,</i>	12 M.
Irvin Martin Lau	<i>East Berlin,</i>	22 E.
Harvey Ross McAllister	<i>Gettysburg,</i>	30 E. High St.
Anna Elizabeth McLaughlin	<i>Carlisle,</i>	3 Campus.
Fannie Long McMahan	<i>Troy,</i>	3 Campus.
Edmund Longinus Manges	<i>Oakland, Md.,</i>	31 W.
William Louis Meals	<i>Gettysburg,</i>	Mummasburg Road.
Levi Forrest Mercer	<i>Mechanicsburg,</i>	26 S.
Effie Matilda Miller	<i>Gettysburg,</i>	25 Chambersburg St.
Stacy Eugene Peters	<i>Dallastown,</i>	20 M.
George Michael Rice	<i>Arendtsville,</i>	12 M.
Jonas Keffer Robb	<i>Ligonier,</i>	23 S.
Abert Lawrence Sauter	<i>Connellsville,</i>	17 E.
Paul Singmaster	<i>Gettysburg,</i>	Confederate Ave.
Louis Earle Smith	<i>Chambersburg,</i>	27 S.
Loy Woods Stambaugh	<i>Blain,</i>	1 and 3 E.
Curvin Horatio Stein	<i>Freysville,</i>	20 M.
Howard Chester Arthur Stouffer	<i>York,</i>	14 S.
Jesse Franklin Swartz	<i>Spring Forge,</i>	8 S.
Fred Gallagher Troxell	<i>Gettysburg,</i>	27 Hanover St.
William Claude Waltemyer	<i>Baltimore, Md.,</i>	11 W.
Anna Jean Wetterau	<i>Hazleton,</i>	209 N. Washington St.
Allston Leffler Whitney	<i>Lykens,</i>	15 and 17 S.
Frederick William Wittich	<i>Hazleton,</i>	26 S.

SCIENTIFIC COURSE.

John McCrea Dickson	<i>Gettysburg,</i>	103 W. Middle St.
Joseph Chalfont Dickson	<i>Gettysburg,</i>	103 W. Middle St.
Leroy Earle Enterline	<i>Ashland,</i>	3 S.
Gideon Moul Haar	<i>Hanover,</i>	12 W.
Horatio Ambrose Helder	<i>Dallastown,</i>	18 M.
John Catherman Himes	<i>McAllisterville,</i>	24 S.
Charles Philip Lantz	<i>Harrisburg,</i>	12 M.
George Lauman Laverty	<i>Middletown,</i>	18 W.
Allen Clair Lebo	<i>Williamstown,</i>	9 S.
James Haines McClure	<i>Elk Lick,</i>	2 S.
William Bradbury McClure	<i>Elk Lick,</i>	2 S.
Elmer William Martin	<i>Ashland,</i>	6 M.
Robert Weir Michael	<i>Centralia,</i>	18 E.
Edgar Allen Miller	<i>Hampton,</i>	22 M.
Frederick Augustus Muhlenberg	<i>Reading,</i>	10 and 12 S.

Howard Stanley Pownall	<i>Lansdale,</i>	14 M.
Russell Simpson Shoemaker	<i>Harney, Md.,</i>	6 W.
Roy Eyster Smith	<i>Chambersburg,</i>	27 S.
Guy Markley Stock	<i>Baltimore, Md.,</i>	4 S.
Raymond Frederick Topper	<i>Gettysburg,</i>	525 Baltimore St.
Martin Luther Wachtel	<i>Myersville, Md.,</i>	17 W.

SENIORS 65.

JUNIOR CLASS.

CLASSICAL COURSE.

Elizabeth Jeannette Bayly	<i>Gettysburg,</i>	301 York St.
Virginia Marion Beard	<i>Gettysburg,</i>	209 N. Washington St.
Paul Frederick Bloomhardt	<i>Altoona,</i>	19 E.
Charles Swartz Bream	<i>Gettysburg,</i>	R. F. D. 4.
Helen Harriet Brenneman	<i>Harrisburg,</i>	139 N. Washington St.
James Howard Buck	<i>Hughesville,</i>	6 E.
Milo R. Clare	<i>Abbottstown,</i>	18 M.
Helen Grace Culp	<i>Gettysburg,</i>	115 Chambersburg St.
Earle Vinton Ehrhart	<i>Glenville,</i>	24 W.
George Raymond Haaf	<i>Palatine, N. J.,</i>	29 E.
Edward Rohrbach Hamme	<i>Brodbecks,</i>	166 Carlisle St.
George Theobald Heintz	<i>Buffalo, N. Y.,</i>	1 W.
Charles Felder Vanmetre Hesse	<i>Lecchburg,</i>	15 W.
George Linn Kieffer	<i>Millersburg,</i>	23 W.
Clark Benjamin Kistler	<i>Elliottsburg,</i>	12 E.
Charles Leonard Kopp	<i>Lineboro, Md.,</i>	34 E.
Elias Trostle Lau	<i>East Berlin,</i>	22 E.
John Calvin McCarrell	<i>Shippensburg,</i>	35 S.
Robert Ellsworth Peterman	<i>Hanover,</i>	11 M.
Norman Guy Phillipy	<i>Greencastle,</i>	4 S.
Mervin Elmer Smith	<i>Aspers,</i>	250 Springs Ave.
Edgar Ernest Snyder	<i>Everett,</i>	7 M.
Samuel Franklin Snyder	<i>Indiana,</i>	12 E.
Simon Snyder	<i>Clearspring, Md.,</i>	250 Springs Ave.
Harry Blain Stroock	<i>Harrisburg,</i>	4 M.
Alfred Levis Taxis	<i>Wilkinsburg,</i>	10 E.
Grover Tracy	<i>Lineboro, Md.,</i>	34 E.
Levering Tyson	<i>Reading,</i>	31 E.
Harry Rey Wolf	<i>Harrisburg,</i>	27 E.
George Edgar Wolfe	<i>Annville,</i>	13 W.

SCIENTIFIC COURSE.

George Nicholas Acker	<i>Washington, D. C.,</i>	8 M.
Joseph Arnold	<i>Brooklyn, N. Y.,</i>	1 W.
Maurice Blocher Bender	<i>Gettysburg,</i>	131 Carlisle St.
Arthur Aaron Bright	<i>Harrisburg,</i>	4 M.
Felton Samuel Dengler	<i>Steelton,</i>	20 S.
Victor Budd Hausknecht	<i>Hazleton,</i>	35 S.
Karl Frederick Irvin	<i>Altoona,</i>	34 S.
John Roy McMillan	<i>Gettysburg,</i>	Confederate Ave.
Oliver Daniel Mosser	<i>Ashland, Ky.,</i>	1 S.
Benjamin Philson	<i>Berlin,</i>	9 M.
Samuel Philson	<i>Berlin,</i>	9 M.
Clarence Lantz Steumpfig Raby	<i>Phoenixville,</i>	8 S.
Charles Garfield Remsburg	<i>Petersville, Md.,</i>	17 W.
Clarence E. Reyner	<i>Knox,</i>	5 M.
Keller Emrich Rockey	<i>Waynesboro,</i>	8 M.
Harry Clayton Sieber	<i>Mifflintown,</i>	21 S.
Leslie Watson Taylor	<i>Norwood,</i>	13 E.
Lloyd Van Doren	<i>New Germantown, N. J.,</i>	29 S.
Arthur Keller Santee Waltz	<i>Chester, Md.,</i>	5 E.
Maurice Stevenson Weaver	<i>Gettysburg,</i>	261 Baltimore St.
John Brown Zinn	<i>Gettysburg,</i>	240 Baltimore St.

SELECT COURSE.

Donald Sangree Hake	<i>Gettysburg,</i>	227 E. Middle St.
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JUNIORS, 52.

SOPHOMORE CLASS.

CLASSICAL COURSE.

Charles Greenough Aurand	<i>Altoona,</i>	17 M.
Bruce Maurice Bare	<i>York,</i>	8 W.
Harry Fridley Baughman	<i>Uniontown, Md.,</i>	168 Carlisle St.
Ralph Emerick Bell	<i>York,</i>	9 W.
Samuel Edward Bower	<i>Berwick,</i>	Observatory.
Ross Eldon Bowers	<i>Martinsburg,</i>	17 M.
George Edward Bowersox	<i>Silver Run, Md.,</i>	14 E.
William Herschel Brown	<i>Gainsboro, Va.,</i>	304 W. Middle St.
Eva Pauline Derr ✓	<i>Upperco, Md.,</i>	139 N. Washington St.
Roy Victor Derr	<i>Creagerstown, Md.,</i>	2 W.
Mary Beatrice Dunlevy ✓	<i>Hazleton,</i>	139 N. Washington St.

Samuel Fausold	<i>Latrobe,</i>	16 M.
Carl Weiser Fleck	<i>Riegelsville,</i>	31 E.
Edward Niles Frye	<i>Pittsburg,</i>	30 W.
Robert Harris Gearhart	<i>Sunbury,</i>	20 E.
Thomas Albert George	<i>New Kensington,</i>	25 S.
Paul Koller Gotwald	<i>York,</i>	10 W.
Paul Geyer Hartman	<i>Littlestown,</i>	48 York St.
Florence Gertrude Heathcote	<i>Gettysburg,</i>	135 Buford Ave.
Earl Cameron Herman	<i>York,</i>	10 M.
Walter John Hipple	<i>Marysville,</i>	30 E.
Harvey Sheely Hoshour	<i>Brooklyn, N. Y.,</i>	143 Springs Ave.
John Jenkins	<i>Pottsville,</i>	10 M.
Julius Grover Cleveland Knipple	<i>Silver Run, Md.,</i>	24 and 26 W.
Harry Davis Lighty	<i>Steelton,</i>	21 E.
William Armour Logan	<i>Philadelphia,</i>	28 E.
Guy Emory McCarney	<i>Gettysburg,</i>	168 Carlisle St.
Paul Munde Marshall	<i>Shippensburg,</i>	29 S.
Carl Frank Miller	<i>Kingsville,</i>	27 W.
Paul S Miller	<i>Hanover,</i>	36 E.
John Rogers Musselman	<i>Gettysburg,</i>	247 Baltimore St.
Elmer Emil Oldhouser	<i>York,</i>	9 E.
Stanley Richard Piszczek	<i>Plymouth,</i>	7 S.
Elmer Frederick Rice	<i>Myersville, Md.,</i>	2 W.
John Beatty Ritter	<i>Fayetteville,</i>	115 Buford Ave.
Ralph Edward Rudisill	<i>Hanover,</i>	36 E.
Charles Norman Shindler	<i>York,</i>	16 W.
Henry Kuhns Starner	<i>Westminster, Md.,</i>	14 M.
John E. Weitzel	<i>Wrightsville,</i>	20 W.
Herman Diedrich Wolff	<i>Philadelphia,</i>	21 S.
Leslie Kauffman Young	<i>Kauffman's,</i>	21 E.

SCIENTIFIC COURSE.

Joseph Tate Bayly, Jr.	<i>Gettysburg,</i>	301 York St.
Herbert Addington Bream	<i>Gettysburg,</i>	R. F. D. 4.
David Monroe Crist	<i>Walkersville, Md.,</i>	27 W.
William Howard Etsweiler	<i>Millersburg,</i>	3 M.
Maude Lydia Kathryn Fogel	<i>Hazleton,</i>	109 Springs Ave.
Harvey Nicholas Gilbert	<i>Chambersburg,</i>	30 S.
Adam James Hazlett	<i>Aspinwall,</i>	32 S.
Arthur Douglas Hunger	<i>Vandergrift,</i>	16 and 18 S.
George Edward Jacobs, Jr.	<i>Johnstown,</i>	34 S.

Roland Arthur Lammert	<i>Frostburg, Md.,</i>	10 W.
Samuel Simon Laucks	<i>Red Lion,</i>	14 W.
Charles Edwards Lewars	<i>Gettysburg,</i>	129 Lincoln St.
Joseph Henry Shuff	<i>Emmitsburg,</i>	23 E.
John Harrison Sachs	<i>Gettysburg,</i>	140 E. Middle St.
Raymond Witmer Sieber	<i>Gettysburg,</i>	37 W. Middle St.
Clarence Frederick Stifel	<i>Allegheny,</i>	22 S.
Harvey Wilmer Strayer	<i>York,</i>	20 W.
Ernest Henry Yohn	<i>Mechanicsburg,</i>	10 S.

SELECT COURSE.

George Edwin Hartman	<i>Gettysburg,</i>	25 Hanover St.
Paul Laban Hitchens	<i>Frostburg, Md.,</i>	11 and 13 S.
Walter Henry Schmitt	<i>Allegheny,</i>	45 Chambersburg St
		SOPHOMORES, 62.

FRESHMAN CLASS.

CLASSICAL COURSE.

Charles Millard Allabach	<i>Orangeville,</i>	166 Carlisle St.
Roy Randolph Allen	<i>Landisburg,</i>	30 E.
Mary Martha Bausch	<i>Everett,</i>	157 Carlisle St.
Earl Jerome Bowman	<i>Halifax,</i>	3 M.
Harvey Cleveland Bream	<i>Fairfield,</i>	25 Chambersburg St.
John Frederick Dulebohn	<i>Mason and Dixon,</i>	37 E.
Louis Hetzel	<i>Connellsville,</i>	17 E.
Harry Muse Jones	<i>McKeesport,</i>	A. 1 S.
Helen Kendlehart ✓	<i>Gettysburg,</i>	47 W. Middle St.
Blanche Swope Klinger ✓	<i>Gettysburg,</i>	130 Broadway.
Sara Nancy Lau ✓	<i>East Berlin,</i>	58 Stevens St.
Clay Edward Rice	<i>Myersville, Md.,</i>	2 W.
Oliver Cleveland Riethmiller	<i>Indiana,</i>	32 E.
Charles William Seville	<i>McConnellsburg,</i>	35 E.
Joseph Ernst Stermer	<i>York,</i>	8 W.
Elmer Clayton Stouffer	<i>York,</i>	14 S.
Raymond Neff Stumpf	<i>York,</i>	8 W.
Newton Daniel Swank	<i>Johnstown,</i>	24 and 26 E.
Harry Morgan Taxis	<i>Wilkinsburg,</i>	10 E.
Burnadette Thomas ✓	<i>Gettysburg,</i>	240 Chambersburg St.

SCIENTIFIC COURSE.

Stanley Thomas Baker	<i>Noxen,</i>	4 W.
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Ernest Barto	<i>Hughesville,</i>	8 E.
Howard Hartman Blume	<i>McKeesport,</i>	A. 1 S.
Floyd William Bream	<i>Gettysburg,</i>	R. F. D. 4.
Alcone Daniel Breitenreiter	<i>Pittsburg,</i>	21 W.
Maude Adeline Dorsey	<i>Motters, Md.,</i>	329 Baltimore St.
Horace Brown Faber	<i>York,</i>	29 W.
Charles Parson Finch	<i>Ramsey, N. J.,</i>	250 Springs Ave.
Howard Miller Fisher	<i>New Germantown, N. J.,</i>	31 S.
Frances Marks Fritchey	<i>Gettysburg,</i>	63 Lincoln St.
Milton Brindle Hartzell	<i>Fayetteville,</i>	115 Buford Ave.
George Granville Hatter	<i>Millersburg,</i>	23 W.
Jacob Ream Heilman	<i>Lebanon,</i>	25 S.
George Fernsler Hocker	<i>Steelton,</i>	20 S.
James Carson Holtzman	<i>Harrisburg,</i>	28 W.
Carl Godlieb Kirsch	<i>Carlisle,</i>	166 Carlisle St.
Joseph Leffler	<i>Millersburg,</i>	115 Chambersburg St.
William Whitney Leffler	<i>Millersburg,</i>	7 S.
Mathias Smyser Lewis	<i>York,</i>	10 S.
William Walker McCaw	<i>McKeesport,</i>	6 S.
Milton Miller	<i>Sand Patch,</i>	11 E.
Willanna Miller	<i>Gettysburg,</i>	157 Carlisle St.
Walter Clippinger Nickles	<i>Shippensburg,</i>	3 S.
Guy Samuel Raffensperger	<i>Arendtsville,</i>	19 W.
Walter Wallace Reindollar	<i>Taneytown, Md.,</i>	20 E.
Paul Beverly Stanley Rice	<i>Lemoine,</i>	42 S.
Charles Allen Russell	<i>Hughesville,</i>	15 S.
John Lawrence Shelley	<i>Mechanicsburg,</i>	16 S.
Rodney Taintor Smith	<i>Newport,</i>	25 W.
George Mervin Spangler	<i>East Berlin,</i>	115 Chambersburg St.
John Luther Spangler	<i>York,</i>	20 W.
Eugene Israel Stumpf	<i>York,</i>	8 W.
John William Weimer	<i>York,</i>	10 M.

SELECT COURSE.

Howard Ward Alleman	<i>Littlestown,</i>	9 S.
Clarence Paul Brown	<i>Smithsburg, Md.,</i>	38 E.
Ruth Zella Buehler	<i>Gettysburg,</i>	11 Chambersburg St.
Frank Mumma Comfort	<i>Mechanicsburg,</i>	28 S.
Paul Melanchton Enders	<i>York,</i>	
Frank Waldo Hempstone	<i>Washington, D. C.,</i>	8 M.
Lawrence Gladstone R. Hitchins	<i>Frostburg, Md.,</i>	11 S.

Samuel Frantz Lehman	<i>Greensburg,</i>	23 S.
Martin Lester Markel	<i>Somerset,</i>	31 E.
Paul Theodore Shaut	<i>Ashland, Ky.,</i>	1 S.

FRESHMEN, 63.

PREPARATORY STUDENTS.

SUB-FRESHMAN CLASS.

John Edgar Ainsworth	<i>LeGore, Md.,</i>	321 Carlisle St.
Ira Willis Appler	<i>Two Taverns,</i>	124 Carlisle St.
Clarence Edgar Bachman	<i>Westminster, Md.,</i>	23 St.
John Bruce Beard	<i>Gettysburg,</i>	State Road.
Harry Smith Beetem	<i>Longsdorf,</i>	41 St.
Mark Brenner	<i>Iola,</i>	44 St.
Charles Stahle Butt	<i>Gettysburg,</i>	123 Carlisle St.
Thomas Neely Cashman	<i>York Springs,</i>	29 St.
Wilbur Luther Davis	<i>Ursina,</i>	38 St.
George Wortz Emmert	<i>York Springs,</i>	41 St.
Charles Fausold	<i>Latrobe,</i>	16 M.
Joseph Herr Fritchey	<i>Gettysburg,</i>	63 Lincoln Ave.
Anna Gilliland	<i>Gettysburg,</i>	Carlisle Road.
Margaret Gilliland	<i>Gettysburg,</i>	Carlisle Road.
Clinton Groff	<i>Bainbridge,</i>	40 St.
Gilbert Gwyn	<i>Catawba, W. Va.,</i>	38 St.
Clinton Stineman Hartman	<i>McKeesport,</i>	5 S.
Robert James Hartman	<i>McKeesport,</i>	5 S.
Ernest Roy Hauser	<i>Hauser, Md.,</i>	46 St.
Joseph Henry Hurst	<i>Hanover,</i>	37 E.
Bernard Seiss Lawyer	<i>Westminster, Md.,</i>	14 and 16 E.
Charles Edgar Liebegott	<i>Martinsburg,</i>	17 and 19 M.
William Sherman McCollough	<i>Chicora,</i>	23 St.
Arnon Lewis Mehring	<i>Philadelphia,</i>	27 St.
William Parker, Jr.	<i>Duncansville,</i>	43 St.
Franklin Joseph Peck	<i>Duncansville,</i>	43 St.
Walter Lee Reitz	<i>Shanksville,</i>	24 St.
Hubert Royer	<i>Keyser, Md.,</i>	44 St.
Earl Stockslager Rudisill	<i>Littlestown,</i>	20 E. Water St.
Stewart Hartman Rudisill	<i>Gettysburg,</i>	White Run.

Raymond Musser Rudy	<i>Harrisburg,</i>	39 St.
Newton Henry Sanders	<i>Millmont,</i>	30 St.
Paul Ahlers Schmitt	<i>Allegheny,</i>	6 S.
Charles Milton Sincell	<i>Oakland, Md.,</i>	45 St.
Warren Workman Souder	<i>Lititz,</i>	23 St.
Alma Kittinger Sowers	<i>McKnightstown,</i>	McKnightstown.
Walter Daniel Spangler	<i>Gettysburg,</i>	153 E. Middle St.
Elmer Raymond Stiteler	<i>Aiken, S. C.,</i>	39 St.
Charles Andrew Tome	<i>Maytown,</i>	40 St.
George Emory Wagner	<i>Arendtsville,</i>	30 St.
Thomas Mervin Walker	<i>Meyersdale,</i>	50 Chambersburg St.
Charles White Werneke	<i>McKeesport,</i>	6 S.
Harry Snyder Wolfersberger	<i>Rockwood,</i>	32 St.
Emmett Robert Woods	<i>Mechanicsburg,</i>	28 St.
Charles Edward Zehner	<i>Grantsville, Md.,</i>	44 St.
Mark Victor Ziegler	<i>Melrose, Md.,</i>	31 St.

SUB-FRESHMEN, 46.

MIDDLE CLASS.

John Oram Appler	<i>Two Taverns,</i>	124 Carlisle St.
Joseph Warfield Collins	<i>Two Taverns,</i>	20 E. Water St.
George Edward Eshenaur	<i>Oberlin,</i>	46 St.
Samuel Walker Forney	<i>Gettysburg,</i>	Confederate Ave.
Clyde Leroy Hesson	<i>Taneytown, Md.,</i>	26 St.
James Jenkins	<i>Frostburg, Md.,</i>	15 E.
William Jenkins	<i>Frostburg, Md.,</i>	15 E.
William Brolasky Martin	<i>Gettysburg,</i>	43 Lincoln Ave.
Ellis C. Mellott	<i>Everett,</i>	115 Buford Ave.
James Alfred Millard	<i>Connellsville,</i>	304 W. Middle St.
George Edward Nighthart	<i>Lewistown,</i>	31 St.
Ernest Probst Pee	<i>Everett,</i>	115 Buford Ave.
Roy Moses Raffensperger	<i>Arendtsville,</i>	19 W.
Lynwood Ross Schuler	<i>Philadelphia,</i>	34 St.
William Henry Arthur Schmitt	<i>Brooklyn, N. Y.,</i>	118 E. Middle St.
Carl Arvid Sangren	<i>New York, N. Y.,</i>	33 St.
Verna Alverta Schwartz	<i>Gettysburg,</i>	21 Liberty St.
Lou Etta Hannah Sharets	<i>Gettysburg,</i>	34 Stevens St.
Edward Hood Sincell, Jr.	<i>Oakland, Md.,</i>	45 St.
Robert Byron Walker	<i>Meyersdale,</i>	50 Chambersburg St.

Harvey Samuel Weidner	<i>York Springs,</i>	38 St.
Samnel Knox White	<i>Fairfield,</i>	321 Carlisle St.
		MIDDLEBURY, 22.

SUMMARY.

Graduates,	2
Seniors,	65
Juniors,	52
Sophomores,	62
Freshmen,	63
	<hr/>
Collegiate Department,	244
Preparatory Department,	68
	<hr/>
Total,	312

Commencement 1907

DEGREES, HONORS AND PRIZES.

CLASS OF 1907.

BACHELORS OF ARTS.

Clarence Eugene Arnold	Eleanor Wortz Miller
Jesse Ethan Benner	Franklin Wattles Moser
Nellie Kate Blocher	Ward Beecher Shank Rice
Edwin Butler Boyer	Ernest Victor Roland
Belle Wierman Bream	Martha Ellen Sachs
Rolland Edward Brumbaugh	William Martin Seligman
Sara Barbara Brumbaugh	Thomas Edgar Shearer
Mary Swartz Fiscel	Paul Rothrock Sieber
William Keeler Fleck	Harry Franklin Smith
Elsie Anna Gerlach	Samuel Earnest Smith
Clifford Elvin Hays	Henry Renoll Spangler
John Clyde Hoover	Rufus Miley Weaver

BACHELORS OF SCIENCE.

Thomas Alvin Faust	George Washington Karmany
Clifford Clinton Hartman	Lloyd Leslie Lammert
John Willard Hershey	Jesse Nelson Sharets
Howard Elwood James	Cora Susan Swartz

HONORS AND PRIZES.

First Honor.

Harry Franklin Smith	Rufus Miley Weaver
Clarence Eugene Arnold	Franklin Wattles Moser

Second Honor.

Clifford Elvin Hays	Ernest Victor Roland
Ward Beecher Shank Rice	Nellie Kate Blocher
Samuel Earnest Smith	Elsie Anna Gerlach
Thomas Edgar Shearer	Martha Ellen Sachs
Sara Barbara Brumbaugh	Henry Renoll Spangler

GRAEFF PRIZE:

For best essay on Donald G. Mitchell's "Reveries of a Bachelor."

Franklin Wattles Moser.

CLASS OF 1908.

HASSLER GOLD MEDAL: JUNIOR LATIN PRIZE:

Mabel Irene Yonson
with honorable mention of

Mary Hay Himes	Louis Earle Smith
Grace Maria Blocher	Anna Jean Wetterau
Fannie Long McMahan	Cora Myrtle Drum

PITTSBURG CLUB PRIZE IN CHEMISTRY:

William Bradbury McClure,
with honorable mention of

Horatio Ambrose Helder	Charles Philip Lantz
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REDDIG PRIZE IN ORATORY:

William Albert Berkey,
with honorable mention of

David Lincoln Baker	Henry Michael Bower
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CLASS OF 1909.

BAUM SOPHOMORE MATHEMATICAL PRIZE:

Clark Benjamin Kistler	Clarence Lantz S. Raby
with honorable mention of	

Edgar Ernest Snyder	Harry Clayton Sieber
Levering Tyson	George Theobald Heintz

GIES PRIZES IN DEBATE:

First and Second Prizes:

Charles Felden Vanmetre Hesse	Arthur Aaron Bright
Samuel Franklin Snyder.	

CLASS OF 1910.

MUHLENBURG FRESHMAN PRIZE: GENERAL SCHOLARSHIP:

John Rogers Musselman,
with honorable mention of

Julius Grover Cleveland Knipple.

MASTER OF ARTS IN COURSE:

1893.

Theodore D. Culp

1902.

Frank S. Fite
D. Montfort Melchior

John F. Newman

1903.

Charles S. Gracey

1904.

Rev. William W. Barkley	Mervin R. Hamsher
Rev. George F. H. Berwager	Rev. Charles J. Hines.
John B. Boyer	Albert M. Hinke
Samuel A. Conway	Frederick G. Masters
William R. S. Denner	Charles H. May
Elisabeth M. Draiss	Joseph E. Rowe
Rev. Paul Froehlich	Samuel P. Weaver
Rev. Josaver W. Gentzler	Rev. Abdel R. Wentz.

MASTER OF SCIENCE IN COURSE:

1901. Mahlon R. Raby, M. D.

HONORARY MASTER OF ARTS:

Rev. C. I. Redcay and Rev. Charles P. Wiles.

HONORARY DOCTOR OF SCIENCE:

Professor Rufus B. Weaver, M.D. (1862).

HONORARY DOCTOR OF DIVINITY:

Rev. Uriel Myers
Rev. George C. Henry (1876)
Rev. Edgar Grim Miller (1885)
Rev. Luther DeYoe (1886)
Rev. Alexander J. C. Haupt.

SUMMARY OF GRADUATES.

(Exclusive of Honorary Degrees.)

Bachelor of Arts,	1,322
Bachelor of Science,	108
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	7
Whole number of graduates,	1,437

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Seventy-seventh Annual Catalogue

OF THE

OFFICERS AND STUDENTS

OF

PENNSYLVANIA COLLEGE

GETTYSBURG, PENN'A.

FOR THE ACADEMIC YEAR

1908---1909

CALENDAR 1908-1910.

1908.

- Sept. 11. Thursday morning—Beginning of First Term.
 Dec. 15. End of First Term.

WINTER VACATION.

1909

- Jan. 5. Beginning of Second Term.
 Mar. 22. End of Second Term.
 Mar. 25. Beginning of Third Term.

EASTER RECESS, APRIL 7 (NOON) TO APRIL 14 (7.40 A. M.).

- May 17. Junior Latin Examination for Hassler Prize.
 May 31. { Final Examinations of Senior Class.
 June 1, 2. {
 June 6. Sunday Morning—Baccalaureate.
 June 6. Sunday Evening—Discourse before the Y. M. C. A.
 June 7, 8. Entrance Examinations.
 June 8. 8 A. M., Tuesday—Meeting of Board of Trustees.
 June 8. 10 A. M., Tuesday—Junior Oratorical Contest.
 June 8. Evening—Annual Meeting of Alumni—President's Reception.
 June 9. 9 A. M., Wednesday—Commencement Exercises—Alumni Collation.

SUMMER VACATION.

- Sept. 16. Thursday Morning—Beginning of First Term.
 Dec. 22. End of First Term.

WINTER VACATION.

1910.

- Jan. 5. Beginning of Second Term.
 Mar. 24. End of Second Term.
 Mar. 30. Beginning of Third Term.
 June 15. Commencement.

OFFICIAL ROLL OF TRUSTEES.

President, HON. EDMUND D. GRAFF
 Vice President, HON. SAMUEL MCC. SWOPE
 Secretary, CHARLES M. STOCK, D.D.
 Treasurer, HENRY C. PICKING

Elected.

1862.	John George Butler, D.D., LL.D.	Washington, D. C.
1873.	George Ryneal, Jr.	Martinsburg, W. Va.
1875.	Hon. Samuel D. Schmucker, LL.D.	Baltimore, Md.
1878.	Harvey W. McKnight, D.D., LL.D.	Gettysburg.
1890.	Hon. Edmund D. Graff	Worthington.
1890.	William H. Dunbar, D.D.	Baltimore, Md.
1890.	Hon. Samuel McC. Swope	Gettysburg.
1892.	Thomas C. Billheimer, D.D.	Gettysburg.
1893.	John Wagner, D.D.	Hazleton.
1894.	Charles M. Stock, D.D.	Hanover.
1894.	Matthew G. Boyer, D.D.	Philadelphia.
1896.	*James Strong	Philadelphia.
1896.	John B. McPherson, Esq.	Boston, Mass.
1896.	J. Emory Bair	Gettysburg.
1897.	John Jacob Young, D.D.	New York, N. Y.
1897.	William A. Shipman, D.D.	Johnstown.
1898.	Henry C. Picking	Gettysburg.
1899.	Charles F. Stiefel	Allegheny.
1899.	Henry H. Weber, D.D.	York.
1902.	Charles Baum, M.D., Ph.D.	Philadelphia.
1905.	Milton H. Valentine, D.D.	Philadelphia.
1906.	Samuel G. Hefelbower, D.D.	Gettysburg.
1906.	George E. Neff, Esq.	York.
1907.	Luther P. Eisenhart, Ph.D.	Princeton, N. J.
1907.	Martin H. Buehler	Pittsburg.
1907.	Hon. R. Wm. Bream	Gettysburg.
1907.	Frederick H. Bloomhardt, M.D.	Altoona.
1907.	Alpheus Edwin Wagner, D.D.	Altoona.
1908.	William J. Gies, Ph.D.	New York, N. Y.
1908.	William L. Glatfelter	Spring Forge.
1908.	Frank E. Colvin, Esq.	Bedford.
1908.	John F. Dapp	Harrisburg.
1908.	George B. Kunkle, M.D.	Harrisburg.
1908.	Jacob A. Clutz, D.D.	Gettysburg.

*Deceased.

FACULTY AND INSTRUCTORS.

 REV. S. G. HEFELBOWER, A.M., D.D.

 PRESIDENT, AND WILLIAM BITTINGER PROFESSOR OF INTELLECTUAL AND
 MORAL SCIENCE.

3 Campus.

JOHN A. HIMES, Litt.D.

GRAEFF PROFESSOR OF ENGLISH LITERATURE AND POLITICAL SCIENCE.

130 Carlisle Street.

REV. PHILIP M. BIKLE, A.M., Ph.D.,

DEAN, AND PEARSON PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

2 Campus.

EDWARD S. BREIDENBAUGH, A.M., Sc.D.,

OCKERSHAUSEN PROFESSOR OF CHEMISTRY AND MINERALOGY, AND CURATOR
OF THE MUSEUM.

227 Carlisle Street.

GEORGE D. STAHLEY, A.M., M.D.

DR. CHARLES H. GRAFF PROFESSOR OF BIOLOGY AND HYGIENE, AND SECRE-
TARY OF THE FACULTY.

Confederate Avenue.

HENRY B. NIXON, Ph.D.

ALUMNI PROFESSOR OF MATHEMATICS AND ASTRONOMY.

1 Campus.

REV. OSCAR G. KLINGER, A.M.

FRANKLIN PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

130 Broadway.

REV. JOHN O. EVJEN, A.M., Ph.D.,

AMANDA RUPERT STRONG PROFESSOR OF ENGLISH BIBLE, AND CHAPLAIN.

109 Broadway.

CARL J. GRIMM, Ph.D.,

PROFESSOR OF THE GERMAN LANGUAGE AND LITERATURE.

223 Carlisle St.

REV. CHARLES F. SANDERS, A.M.

PROFESSOR OF PHILOSOPHY.

50 Springs Avenue.

LOUIS A. PARSONS, Ph.D.,

PROFESSOR OF PHYSICS.

250 Springs Avenue.

 PROFESSOR OF FRENCH.

CLYDE B. STOVER, A.M.,

ASSISTANT IN CHEMISTRY.

E. Lincoln Street.

JAMES A. DICKSON, A.B.

ASSISTANT IN CHEMISTRY.

103 W. Middle Street.

HAROLD S. LEWARS, A.M.,
ASSISTANT IN ENGLISH.

100 *Broadway.*

RUFUS M. WEAVER, A.B., B.S.,
ASSISTANT IN PHYSICS.

129 *Baltimore Street.*

FRED. G. TROXELL, A.B.,
ASSISTANT IN MATHEMATICS.

27 *Hanover Street.*

A. J. WHITE HUTTON, A.M., LL.B.,
LECTURER ON JURISPRUDENCE.

Chambersburg.

HENRY WOLF BIKLE, A.M., LL.B.,
LECTURER ON CONSTITUTIONAL LAW.

Philadelphia.

REV. CHARLES H. HUBER, A.M.,
PRINCIPAL OF THE PREPARATORY DEPARTMENT, AND PROFESSOR OF LATIN
AND ENGLISH.

411 *Carlisle Street.*

WARD B. S. RICE, A.B.,
TUTOR IN MATHEMATICS AND NATURAL SCIENCE.

42 *Stevens Hall.*

CURWIN H. STINE, A.B.,
TUTOR IN GREEK AND HISTORY.

16 *Stevens Hall.*

VIRGINIA M. BEARD,
PRECEPTRESS.

209 *N. Washington Street.*

JOHN W. WEIMER,
PHYSICAL INSTRUCTOR.

30 *East College.*

EDGAR E. SNYDER,
PROCTOR.

7 *Middle College.*

PAUL F. BLOOMHARDT,
PROCTOR.

14 *South College.*

REV. GEORGE W. NICELY, A.M.
SECRETARY OF Y. M. C. A.

250 *Springs Avenue.*

SALLIE P. KRAUTH,
ASSISTANT LIBRARIAN.

3 *Baltimore Street.*

REV. JOHN O. EVJEN, Ph.D.,
REV. S. G. HEFELBOWER, D.D.,
LIBRARY COMMITTEE.

COURSES OF STUDY.

The College offers the following courses :

- I. A Classical course leading to the degree of A.B.
- II. A Scientific course leading to the degree of B.S.
- III. Partial courses without reference to a degree.

TERMS OF ADMISSION.

Entrance examinations are held on Monday and Tuesday before Commencement and on Thursday, the day of opening, in September. While there may be examinations at other times, all applicants are urged to present themselves on the days appointed. Students from the Preparatory Department are admitted to the Freshman class upon the recommendation of the Principal without further examination. Applicants recommended by approved Academies and High Schools as having mastered the required preparatory studies are admitted on an extended trial, without a formal examination. *Women are admitted to all departments as day scholars*

CLASSICAL COURSE.

Candidates for the Freshman class are subject to examination in the following books or their equivalents :

LATIN.—Latin Grammar: three books of Cæsar's *Gallic War*; three books of Virgil's *Æneid*; three orations of Cicero.

GREEK.—Greek Grammar complete; three books of the *Anabasis*; Jones' Prose Composition complete.

MATHEMATICS.—Arithmetic complete, including the Metric System; Elementary Algebra (Wells' Academic, through Quadratics. Robinson's complete, or Wentworth's to Chapter XVIII); Geometry, three books of Wentworth's, or Phillips and Fisher's, or the equivalent in other authors.

ENGLISH.—In English the following books, recommended by the Association of Colleges and Preparatory Schools of the Middle States and Maryland, will be required :

(a.) Reasonable familiarity with the substance of the work:

For 1909: Shakespeare's *Merchant of Venice* and *Julius Caesar*; Bunyan's *Pilgrim's Progress, Part I.*; Addison's *Sir Roger de Coverley*; Scott's *Ivanhoe* and *Lady of the Lake*, Irving's *Sketch Book*; Macaulay's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette, Lancelot and Elaine*, and *Passing of Arthur*; George Eliot's *Silas Marner*.

For 1910: Shakespeare's *Merchant of Venice* and *Julius Caesar*; Addison's *Sir Roger de Coverley Papers*; Franklin's *Autobiography*; Macaulay's *Life of Ancient Rome*; Scott's *Ivanhoe* and *Lady of the Lake*; Tennyson's *Gareth and Lynette, Lancelot and Elaine* and *Passing of Arthur*; Hawthorne's *House of the Seven Gables*; George Eliot's *Silas Marner*.

(b.) More careful and specific study:

For 1909 and 1910: Shakespeare's *Macbeth*; Milton's *Lycidas, Comus, L'Allegro* and *Il Penseroso*; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Carlyle's *Essay on Burns*.

The candidate will be required to present evidence of a general knowledge of the subject matter and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics designed to test the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books. Questions involving the essentials of English Grammar and the fundamental principles of Rhetoric will be part of the examination.

No candidate will be accepted in English whose work is notably deficient in spelling, punctuation, idiom, or division into paragraphs.

GEOGRAPHY AND HISTORY.—Modern Political Geography; History of the United States (the equivalent of Sheldon's); Essentials of Greek and Roman History.

SCIENTIFIC COURSE.

Candidates for the Freshman class of the Scientific Course are subject to the same examination as for the Classical Course with the omission of the Greek. For this omission may be substituted one of the following:

I. PHYSIOGRAPHY. — (Elementary Physical Geography), BOTANY (Elements of systematic and structural departments), or ELEMENTARY PHYSICS.

II. HISTORY.—Histories of England and France (Montgomery is recommended).

PARTIAL COURSES.

Students not candidates for a degree are admitted to the privileges of the College and allowed to take special undergraduate studies, selected with the approval of the faculty in such a manner as to secure the full and profitable employment of their time. Such special students undergo the examination necessary to ascertain their fitness for the proposed courses.

ADVANCED STANDING.

A candidate for advanced standing, in addition to the foregoing studies, is examined in the various books which the class he proposes to enter has studied.

An accurate and thorough acquaintance with the studies required for admission is indispensable, in order to receive the full advantage of the college course. Students imperfectly prepared for the class they enter are embarrassed in their future progress and are seldom able to make up their deficiency.

No one is admitted to the Senior class after the beginning of the second term.

TESTIMONIALS.—Satisfactory testimonials of good moral character are required, and students from other institutions must bring certificates of regular and honorable dismissal.

SUPERVISION AND DEVOTIONAL EXERCISES.

The President and Dean, residing on the Campus, have special supervision of the buildings and are at all times easily accessible

to the students. The College seeks to secure the co-operation of each individual student in the preservation of good order and the attainment of a high standard of scholarship and manly conduct.

Prayers, with the reading of the Scriptures and singing, conducted by the President or Chaplain, are attended daily at 7.40 A. M., on week days, in Brua Chapel. At 10.30 A. M. on Sunday all the students are required to attend public worship in the College Church, or in such other place of worship as their parents or guardians may designate by written request. Catechetical instruction is provided for those who desire it, and students are welcomed to other religious services in the churches of the town.

The Young Men's Christian Association of the College is an active agent in promoting religious interest among the students. Regular and special meetings for prayer are conducted by the members and classes for Bible study are formed. An annual course of lectures and musical entertainments under the same auspices adds much to the social enjoyment and culture of the college community.

INSTRUCTION.

In the undergraduate courses each candidate for a degree must have sixteen exercises a week of required or elective work in recitations, lectures, or laboratory periods, besides the gymnasium periods. Usually there are three exercises each day except Saturday, when there is commonly only one. Laboratory, drawing and surveying periods are each two and a half hours. A gymnasium period is one hour. A student in any of the special courses must have not less than eleven exercises a week.

RULES FOR THE CHOICE OF ELECTIVES.

1. No student shall be allowed to pursue any elective study unless the instructor in the same is satisfied that the student is prepared to pursue said study.

2. The choice of electives shall be made at the beginning of the year, and no change shall be allowed during the year.

The following schedule presents a general view of the studies and hours of the various classes:

SCHEDULE FOR THE CLASSICAL COURSE.

CLASS	HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FRESHMAN	8 or 9	Greek	Latin	Greek	Latin	Greek	Latin
	10 or 11	Rhetoric	Mathematics	Mathematics	Mathematics	Mathematics	
	2 or 3	French	History	French	History	Bible	
SOPHOMORE	8 or 9	Latin	Greek	Latin	Greek	Latin	Greek
	10 or 11	German	English	English	German	English	
	2 or 3	Mathematics	Bible	Mathematics	1 } Elocution 2 } 3 }	Mathematics	
JUNIOR	8 or 9	English	German	Psychology	Psychology	English	German
	10 or 11	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	1 } Latin 2 } <i>Bible</i> 3 } <i>Bible</i>	1 } Greek 2 } <i>Greek</i> 3 } <i>Bible</i> <i>Biology</i>	1 } Latin 2 } <i>Latin</i> 3 } <i>English</i>	1 } Greek 2 } <i>Greek</i> 3 } <i>Bible</i> <i>Biology</i> <i>English</i>	
	1 to 3	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	Chemistry or French	
SENIOR	8 or 9	1 } Astronomy 2 } Theism	Pol. Science	1 } Astronomy 2 } Theism	Pol. Science	1 } Astronomy 2 } Theism	Pol. Science <i>Chemistry</i> (9)
	10 or 11	1 } Physics 2 } Geology	1 } Physics 2 } Geology	1, 2 } Evid. Christ 1, 2 } Ethics	1, 2 } Evid. Christ 1, 2 } Ethics	1 } Physics 2 } Geology	<i>Biology</i>
	1 to 3	1 } <i>History</i> 2 } <i>Pol. Science</i> 3 } <i>Social Science</i> <i>Chemistry</i> <i>Philosophy</i> <i>Physics</i>	1 } <i>History</i> 2 } <i>Greek</i> 3 } <i>Biology</i> <i>Philosophy</i> <i>Mineralogy</i>	German Latin <i>Chemistry</i> <i>Philosophy</i> <i>Physics</i>	1 } <i>History</i> 2 } <i>Greek</i> 3 } <i>Biology</i> <i>Mineralogy</i>	German Latin <i>Chemistry</i> <i>Philosophy</i> <i>Physics</i>	

Astronomy, one hour a week. *Observatory* (night) work.

Math., Problems, two periods a week. *Convenience*.

Italics indicate Elective Studies.

Numerals, 1, 2, and 3, before a subject, indicate the term during which the subject is studied.

Exercises, one hour a week at convenience.

Comp. Philol., one hour a week at convenience.

SCHEDULE FOR THE SCIENTIFIC COURSE.

CLASS	H'rs	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FRESHMAN	8 or 9	Chemistry	Latin	Chemistry	Latin	Chemistry	Latin
	10 or 11	Rhetoric	Mathematics	Mathematics	Mathematics	Mathematics	
	2 or 3	French	History	French	History	Bible	
SOPHOMORE	8 or 9	Latin	Chemistry	Latin	Chemistry	Latin	Mech. Draw.
	10 or 11	German	English	English	German	English	
	2 or 3	Mathematics	Bible	Mathematics	1 } Elocution 2 } 3 } Botany	Mathematics	
JUNIOR	8 or 9	English	Surveying	Psychology	Psychology	English	German
	10 or 11	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	German	1 } <i>Chemistry</i> 2 } <i>Chemistry</i> 3 } <i>Biology</i>	Surveying (9)	1 } <i>Chemistry</i> 2 } <i>Chemistry</i> 3 } <i>Biology</i>	
	1 to 3	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	Chemistry or French	
SENIOR	8 or 9	1 } Astronomy 2 } Theism 3 }	Pol. Science	1 } Astronomy 2 } Theism 3 }	Pol. Science	1 } Astronomy 2 } Theism 3 }	Pol. Science Chemistry (9) Bible (9)
	10 or 11	1 } Physics 2 } Geology 3 }	1 } Physics 2 } Geology 3 }	1 } Evid. Christ 2 } Ethics 3 }	1 } Evid. Christ 2 } Ethics 3 }	1 } Physics 2 } Geology 3 }	Biology
	1 to 3	1 } <i>History</i> 2 } <i>Pol. Science</i> 3 } <i>Math. Science</i> <i>Physics</i> <i>Chemistry</i> <i>Philosophy</i>	1 } <i>History</i> 2 } <i>Biology</i> 3 } <i>Mineralogy</i> <i>Philosophy</i>	German Physics Chemistry Philosophy	History Biology Mineralogy	German Physics Chemistry Philosophy	

Astronomy, one hour a week; *Observatory* (night) work.
Math. Problems, two periods a week at convenience.
Italian, indicate Elective Studies.
 Numerals, 1, 2, and 3, before a subject, indicate the term during which the subject is studied.

Aesthetics, one hour a week at convenience.
Comp. Philol., one hour a week at convenience.

DEPARTMENTS OF INSTRUCTION.

PHILOSOPHY.

Professors EVJEN, GRIMM and SANDERS.

1. *Psychology.* The functions of the human mind are explained as they manifest themselves in experience. The history of the progress in Psychology—especially the rapid strides in recent years—is dwelt upon sufficiently to show the relation of present-day Psychology to that of the past. The student is instructed in methods of careful introspection by reference to the methods and best results in the most recent experimental investigation.

Junior required course. Two hours a week, first and second terms.

2. *Logic.* The nature and processes of reasoning and the conditions and methods of proof are studied. The aim is to acquaint the student with the laws governing scientific investigation and positive constructive thinking.

Junior required course. Two hours a week during third term.

3. *Philosophy, Course 1.* A rapid survey of the History of Philosophy with a view to showing the development of the various schools and their distinguishing principles, and a course in Introduction to Philosophy presenting an outline of present problems.

Senior elective. Two hours a week throughout the year.

4. *Philosophy, Course 2.* The first term is devoted to the genetic study of the social functions of mind; the second term, to an Introduction to Sociology; and the third term to the Psychological Principles of Education. The guiding thought of the course is, man as a member of society, how he has become the kind of member which he is and the processes by which he may be improved. Psychology, Sociology, Pedagogy.

Senior elective. Two hours a week throughout the year.

5. *Introduction to Philosophy.* It is the aim of this course to acquaint the student with the problems of Philosophy, their origin, interpretation and bearing.

Elective, open to Juniors and Seniors. One hour a week throughout the year.

6. *Ethics.* The aim is to have the student think through to solution the problems arising from the study of man as an ethical being. The psychological basis, the metaphysical implications—personality, freedom, God—and the practical application of theories are carefully studied.

Senior required course. Two hours a week, second half year.

7. *Theism*. The traditional arguments for the theistic world-view are studied so as to show the consequences for the theistic view in the chief philosophic theories, culminating in the grounds for the theistic view in present-day thought. The student is shown how to hold the theistic view in the world in which he lives.

Senior required course. Three hours a week, third term.

A standard text is used as a basis in each of the above courses. The class-room work consists of lecture, discussion and recitation. Essays on assigned topics are required.

1-7 Professor SANDERS.

8. *Christian Evidence*. Bruce's Apologetics. While opposing theories are duly considered, the argument for Christianity from Miracles is accepted and defended. This argument is supported by others derived from various sources, such as the fulfilment of Prophecy, the adaptedness of Christianity to the needs of human nature, the superiority of Christian Doctrine, and the benevolent fruits of the religion of Christ.

Senior required course. Two hours a week, the first half of the year.

Professor EVJEN

9. *Aesthetics*. Outline study of the leading periods and the general features of the various fine arts, with discussion of the principal æsthetic problems. Illustrated by photographs and other reproductions. Van Dyke, College Histories of Art.

Elective for Seniors. One hour a week throughout the year.

Professor GRIMM.

MATHEMATICS AND ASTRONOMY.

Professor NIXON and Mr. TROXELL.

1. *Geometry*. Plane (books fourth and fifth), solid and spherical. (Wentworth.)

Freshman required course. Four hours a week the first term and one-third of the second term.

2. *Algebra*. Series; undetermined coefficients; binominal theorem; logarithms; determinants; theory of equations. (Wells.)

Freshman required course. Four hours a week during two-thirds of the second, and one-half of the third term.

3. *Trigonometry*. Trigonometric functions; right triangle; isosceles triangle; regular polygon; goniometry. (Murray.)

Freshman required course. Four hours a week, the last half of the third term.

4. *Trigonometry*. Oblique triangle; right spherical triangle;

oblique spherical triangle; application of spherical trigonometry to the solution of astronomical and other problems. (Murray.)

Sophomore required course. Three hours a week, the first term.

5. *Plane Analytic Geometry.* Rectilinear, oblique and polar systems; relation between the rectilinear and polar systems; equations of the straight line; properties of rectilinear figures; circle; ellipse; hyperbola; tangents and normals; loci of the first and second order; higher plane loci; transcendental curves. (Smith and Gale.)

Sophomore required course. Three hours a week during the second term and two-thirds of the third term.

6. *Surveying.* Practical use of instruments—compass, transit and level; plotting; computing areas; making profiles. (Wentworth.)

Sophomore required course. Three hours a week the last third of the third term.

7. *Mechanical Drawing.* Geometrical construction; transcendental curves; section of the cone showing the ellipse, hyperbola and parabola; cylinders penetrating each other and the development of the same; isometric projections of solids; perspective.

Sophomore (Scientific) required course. One period a week during the year.

8. *Field Work in Surveying.* Use of the transit and level; rectangular surveying and use of transverse tables; triangulations; laying out curves; avoiding obstructions; leveling and setting grade stakes. (Carhart.)

Junior (Scientific) required course. Two hours a week during the first term and one-half of the third term.

9. *Mechanics (Statics).* Composition and resolution of forces; parallel forces; equilibrium of a rigid body acted on by three forces in a plane; center of gravity; machines; work. (Loney.)

Junior (Scientific) required course. Two hours a week during the second term and half of the third term.

10. *Differential Calculus.* Differentiating; expansion of series; maxima and minima; indeterminate forms; tangents and normals; asymptotes and singular points; theory of envelopes; radius of curvature; evolutes and involutes. (Granville.)

Junior and elective course. Three hours a week, the first term.

11. *Integral Calculus.* Integration; definite integrals; successive integration; rectification of curves; quadrature of plane figures; cubature of volumes. (Granville.)

Junior elective course. Three hours a week, second term.

12. *Calculus.* Special topics.

Junior elective course. Three hours a week, third term.

13. *Elements of Projective Geometry.* (Cremona.)

Junior elective course. Three hours a week during the second half year.

14. *Astronomy*. The subject as treated by Young; different authors reviewed by members of the class. The students of this course have access to the Observatory, which is equipped with a chronometer, sextant, transit and equatorial.

Senior required course. Three hours a week during the first and second terms.

15. *Practical Astronomy*. The instruments used, besides the time-pieces, are the sextant, transit and equatorial. Determination of time, latitude and longitude; measurements of the diameters of planets and the distances of their satellites; measurements of the heights of mountains on the moon; measurements of double stars; calculation of eclipses; calculation of sunrise and sunset.

Senior elective course. One hour a week during the year.

16. *Mathematics*. *Analytical Geometry* of three dimensions. (Smith.) *Differential equations*. (Murray.) *Mechanics*, *Projective Geometry*. (Cremona.)

Senior elective course. Three hours a week during the year.

GREEK.

Professors KLINGER and EVJEN.

1. THE ORATORS. *Antiphon*. *Lysias* and *Isaeus*. Representative selections are read and compared with distinct reference to the development of prose style. The abundant allusions in them to early Athenian life are made the basis for studies in Greek antiquities of the historic period. Blackboard drill in forms, the explanation of case, mood and tense uses and the study of words are features of the recitation. Lectures on the condition under which prose-writing originated and developed are given at stated periods. Prose composition, based on the text, twice each week.

Freshman (Classical) required course. Three hours a week, first and second terms.

2. THE HISTORIANS. *Thucydides*. Selections from the Peloponnesian War. The study of the text continues the syntactical analysis, the drill in forms and the study of words in accordance with the principles of word-formation. Special attention is given to the subject matter, and the stirring times preceding the overthrow of the Athenian supremacy are depicted. Prose composition as before.

Freshman (Classical) required course. Three hours a week, third term.

Herodotus. Portions of the Persian War are read rapidly with

particular attention to the subject matter. The importance of the period calls for a review of history, and readings are assigned in Grote and other historians to be reported on by the students. The course comprehends lectures on the Greek dialects and advanced studies in the history of case, mood and tense development. Prose composition as before.

Sophomore (Classical) required course. Three hours a week, first term.

3. EPIC POETRY. *Homer*. The Iliad (Full text required.) The study of the text is preceded by a course of dictated lectures which aim at setting forth the Homeric question in its latest phase. The Iliad is then interpreted as a piece of literature in harmony with the conclusion of the latest Homeric scholars. Special study is made of the epithets, and by frequent word-reviews from the blackboard an attempt is made to fix the vocabulary. Each student is required with the aid of Gehring's Index to develop one or more subjects in Homeric antiquities.

Sophomore (Classical) required course. Three hours a week, second and third terms.

4. THE ATTIC DRAMA. *Æschylus* and *Sophocles*. The entire Junior year is devoted to the study of the Attic Drama. The course contemplates by means of lectures and assigned readings a complete survey of ancient Tragedy and Comedy in their origin and development, and their relation to the modern stage. Lectures on the Greek Theatre precede the study of the text.

Junior (Classical) required course. Two hours a week for two terms.

Euripides or *Aristophanes*. The students are permitted to choose between these authors.

Junior elective course. Two hours a week, third term.

5. *Demosthenes*. *De Corona*. The study includes the age. The decadence of the Hellenic spirit, as shown in civic life, literature, and art, is traced with the class. The course is intended to include, as far as possible, a survey of Greek civilization.

Senior elective course. Two hours a week during one term.

6. *Plato* and *Pre-Socratic Thought*. The Protagoras and the Phædo are the texts studied. The leading doctrines of Plato are analyzed and their relation to modern thought is pointed out. A parallel course of lectures in Pre-Socratic Thought, based on the fragments found in Ritter & Preller's *Historia*, is given.

Senior elective course. Two hours a week, during second term.

7. *The Lyric Poets*. Tyler's "Selections." The course comprehends, along with the interpretation of the poems, the origin and

development of lyric poetry and its relation to Greek literature in general.

Senior elective course. Two hours a week, third term.

3. *Hellenistic Greek*. See Biblical Department.

LATIN.

Professor BIKLE.

Allen and Greenough's Latin Grammar and Harper's Latin Dictionary are recommended. The Roman method of pronunciation is used.

1. *Livy*. Selections from book I, and the Hannibalian War in Books XXI and XXII. Special attention is given to syntax and Livy's peculiarities of style. Roman History down to 200 B. C. is studied with care.

Freshman required course. Three times a week during the first term.

2. *Horace*. Odes, including a critical interpretation, and with special attention to Latin Prosody and the mythological and historical allusions to the text. Berens' Hand-book of Mythology is recommended.

Freshman required course. Three hours a week, second term.

During one or more terms of the Freshman year in connection with the reading of the Latin text, there will be drill in Latin Prose Composition, embracing a rapid review of Latin syntax, with oral and written practice in the principles involved.

3. *Cicero*. De Senectute, or De Amicitia. Drill in syntax, especially of the Latin subjunctive mode. Training, also, in reading Latin with expression.

Freshman required course. Three hours a week, third term.

4. *Tacitus*. Annals or Agricola. A study of the history of the times along with the reading of the text.

Sophomore required course. Three hours a week, first term.

5. *Horace*. Satires and Ars Poetica. After reading some selected satires, the Ars Poetica is read and each student is required to prepare in writing an analysis of the poem.

Sophomore required course. Three hours a week, second term.

6. *Cicero* and *Pliny*. Letters, with numerous exercises in sight reading.

Sophomore required course. Three hours a week, third term.

7. *Quintilian*. Tenth Book. With summary and classification of the Greek and Roman authors. Informal lectures on Roman literature.

Junior (Classical) required course. Two hours a week, first term.

8. *Juvenal*. Satires. With full explanations, and study of the private and social life of the Romans, followed by a short course in Roman Antiquities.

Junior (Classical) course, required the second term, elective the third. Two hours a week, both terms.

9. *Terence* or *Plautus*. The *Andria* of Terence or *Captivi* of Plautus. The *Dramatis Personae* are assigned to special members of the class and the parts rendered both in Latin and in English.

Senior elective course. Two hours a week, third term.

10. *Latin Literature*. A course of lectures embracing a general survey of the whole field, and aiming to trace the rise and subsequent development of the various kinds of prose and verse among the Romans, and to portray the several periods of the literature in the light of the changing conditions under which the development took place; or

Roman History. A course of lectures covering the period from 200 B. C. to 200 A. D.

Senior elective course. Two hours a week for eight weeks, second term.

ENGLISH.

Professor HIMES and Mr. LEWARS.

1. *Rhetoric*. A study of the subject with the aid of a text-book. The aim of the course is (1) to acquaint the student with the principles of good writing, and (2) to lead to an appreciation of good literature. A course in composition is conducted in connection with this subject.

Freshman required course. One hour a week throughout the year.

2. *Composition*. Weekly themes on assigned subjects corrected and commented on by the instructor, in personal consultation with the student.

Freshman required course throughout the year.

3. *History of American Literature*. A study of the subject with the aid of a text-book. Quizzes, collateral reading, papers.

Sophomore required course. Three hours a week, first half of the year.

4. *History of English Literature*. The text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore required course. Three hours a week, last half of the year.

5. *Composition*. Weekly themes on assigned subjects. Advanced.

work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore required course, throughout the year.

6. *Elocution*. A course of lectures on the subject. Vocal exercises, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore required course. One hour a week throughout the year.

7. *Nineteenth Century Novelists*. A study of the development and structure of the novel. Lectures, collateral reading, papers.

Junior elective course. Two hours a week, third term.

1-7 Mr. LEWARS.

8. *Shakespeare*. Five or six plays are studied, the principal characters are analyzed and the most important and suggestive passages are read and interpreted before the class. The writing of dialogue is practiced.

Junior required course. Two hours a week, first term.

9. *Milton*. Four or five books of the *Paradise Lost* are studied; the views of many commentators are examined and compared; Milton's conception of the material and spiritual universe is set forth and elucidated.

Junior required course. Two hours a week, second term.

10. *Nineteenth Century Poets*. Page's Selections from British Poets.

Junior required course. Two hours a week, third term.

11. *Anglo-Saxon*. The translation of easy prose is begun at the second or third recitation in this subject and sight reading is undertaken after four or five weeks. About five hundred lines of the poetry of Beowulf or Cædmon and other writings are read in the latter half of the term. Comparative Philology receives considerable attention in connection with this subject.

Junior elective course. Three hours a week, first term.

12. *Middle English*. Chaucer, or Old English Ballads. This study is intended to acquaint the student with the old forms of English. Connected with the recitations are brief talks on the structure, classification and development of languages and especially on word building.

Junior elective course. Three hours a week for six weeks, second term.

13. *Tennyson* or *Browning*. A number of the more important poems are read, the plan and the development of the thought are traced, and obscure expressions interpreted.

Junior elective course. Three hours a week for six weeks, second term.

14. *Writing and Speaking.* The preparation of declamations, essays, orations and debates is continued from the beginning of the Junior onward to the end of the Senior year. Subjects assigned are sometimes suggested by miscellaneous matters of interest, and sometimes by topics found in the text-books studied. To secure greater carefulness on the part of the student, the written work is commonly read privately and criticised by the instructor.

8-14 Professor HIMES.

FRENCH.

Professor GRIMM.

1. *Elementary French.* Fraser and Squair's French Grammar, Part I., with exercises and drill on pronunciation and idioms, is completed during the first two terms. The third term is devoted to rapid sight reading, to composition with syntactical references, and to translations from Aldrich and Foster's French Reader, with special attention to the more common irregular verbs.

Scientific Freshman required course. Two hours a week throughout the year, elective for Classical Freshmen.

2. *Irregular Verbs, Syntax, Prose Composition, Prose Reading, Easy Dramatic Poetry.* Fraser and Squair, French Grammar; Malot, Sans Famille; Labiche, La Grammaire; Erckmann-Chatrion, Histoire d' un Paysan.

Elective. Two hours a week, throughout the year.

3. *Drama, Conversation.* Corneille, Le Cid; Racine, Athalie; Beaumarchais, Barbier de Seville; Voltaire, Zaire; Hugo, Hernani. Private reading required.

Elective. Three hours a week throughout the year.

GERMAN.

President HEFELBOWER and Professor GRIMM.

1. *Elementary German.* Vos, Essentials of German; Wenckebach-Mueller, Glueck Auf; Seidel, Aus goldenen Tagen. Easy conversation, based on the texts read.

Elective for Freshmen of the Classical Course, required of all Sophomores who did not absolve the course during the Freshman year. Two hours a week throughout the year.

2. *Syntax. Prose Composition, Conversation, Prose Readings,*

Easy Dramatic Poetry, Lyrics and Ballads. Thomas, Practical German Grammar; Seidel, Erzaehlungen; Moser, Der Bibliothekar; Hatfield, Lyrics and Ballads; Vos, Materials for German Conversation. Private reading is required.

Junior required course; elective for Sophomores who have absolved Course 1. Two hours a week throughout the year.

3. *Epic Poetry, Classical Drama, Advanced Composition.* Goethe, Hermann und Dorothea; Schiller, William Tell; Pope, German Composition.

Elective for all students who have absolved Course 2. Two hours a week throughout the year.

4. *Classical Drama, History of the German Language and Literature.* Lessing, Nathan der Weise. Lectures, supplemented by readings from representative authors. Advanced Composition and Conversation on the basis of Pope, German Composition, and Kron, German Daily Life. Private reading is required.

Senior elective course. Two hours a week throughout the year.

Opportunity for more extended German conversation and discussions referring to German life, literature and culture is given to Juniors and Seniors in a voluntary Deutscher Verein.

5. *General Comparative Philology and Ethnology.* A lecture-course dealing with the elements of the Science of Language and with the linguistic Ethnology of the Indo-Germanic and Semitic peoples. The divisions, inter-relations, common characteristics, and original home of the Indo-Germanic and Semitic peoples respectively are pointed out and discussed, and the languages and literatures of the individual peoples of the two families are sketched, special attention being given to the Germanic group.

Elective for Seniors. One hour a week throughout the year.

HISTORY, POLITICAL SCIENCE AND LAW.

Professors HIMES, BIKLE, HEFELBOWER and EVJEN and Messrs. BIKLE and HUTTON.

1. *European History.* Harding's Essentials and Myers' Mediaeval and Modern History are the text-books recommended. Collateral reading on suggested and assigned topics is pursued in connection with preparation for the recitation and students are encouraged to investigate, as much as possible, the facts set forth in the texts.

Freshman required course. Two hours a week throughout the year.

President HEFELBOWER.

2. *Political Economy.* Seligman's Principles of Economics. The

theories of the text-book are brought, as often as possible, to the test of the student's personal observation and the true nature of the science is thus impressed. Problems for investigation are assigned to the members of the class, with direction to inquire into actual industrial and social conditions and operations.

Senior required course. Three hours a week for twelve weeks of the first term.

3. *Lectures on Money and Banking.* Theories of money and credit are examined in connection with a rapid survey of the monetary history of the United States. Particular attention is given to present conditions and tendencies.

Senior required course. Ten or twelve hours.

4. *International Law.* Lawrence's *International Law*. Occasional lectures on special topics, such as the prominent features in American diplomacy.

Senior required course. Three hours a week for the last twenty weeks of the year.

5. *Science of Government.* Bryce's *American Commonwealth* is used as a text-book. Free criticism of the author's views is encouraged; National and State Constitutions are examined. The annual Presidential Message is studied and discussed [Omitted in 1908-9.]

Senior elective course. One hour a week throughout the year.

2-5 Professor HIMES.

6. *Roman Law.* Morey's *Outlines*. After a careful study of the text-book, an essay is required from each member of the class on a subject assigned for special investigation.

Senior elective. Two hours a week during the first term.

Professor BIKLE.

7. *Modern European History.*

Senior and Junior elective course. Three hours a week throughout the year.

During the first and second terms two hours a week are given to the Period of the Reformation, 1517-1648. Text-book: Fisher's "The Reformation," revised edition of 1906. During the third term, two hours a week, the history of the nineteenth century is studied. Text-book: Seignobos' "Political History of Europe."

Throughout the year, one hour a week is given to the study of historical method and philosophy of history. This course embraces search for documents, "auxiliary sciences," textual criticism, critical investigation of authorship, classification of sources, interpretative criticism, grouping of facts, constructive reasoning, exposition. Text-books: Langlois & Seignobos' "Introduction to the Study of History," and Bernheim, "Einleitung in die Geschichtswissenschaft." The

texts for criticism are in Latin, being selected from "Monumenta Germaniae historica."

The Juniors who by reason of conflicting hours cannot complete this course in the third term, may, as Seniors, complete it in the third term, the year following.

The Seniors may pursue the entire course without interruption.

Professor EVJEN.

8. *Constitutional Law*. Four lectures on the Constitution of the United States, including a discussion of the American Doctrine of Constitutional Law, and a consideration of the commerce clause, of the clause forbidding the impairment by the States of the obligation of contracts, and of the guaranties of personal liberty and equality contained in the Fourteenth Amendment.

Senior course, third term.

Mr. H. W. BIKLE.

9. *Talks on Law*. Six lectures on domestic relations, decedents' estates, insurance and commercial law and finally those phases of the law with which every citizen sooner or later in life has some experience.

Senior course, third term.

Mr. A. J. W. HUTTON.

CHEMISTRY.

Professor BREIDENBAUGH, Mr. STOVER and Mr. DICKSON.

1. *Elementary Inorganic Chemistry*. Lectures, laboratory work, quizzes and examinations. The student is expected, in addition to the outline of work provided, to have some approved reference book on Chemistry. This course covers the general principles of Chemistry with a study of the elements and their compounds. A practical review is given at the end of the year, determining compounds by their properties.

Junior (Classical) required course. Three periods a week throughout the year as in course 1.

2. *Elementary Inorganic Chemistry*. Lectures, laboratory work and quizzes.

Freshman (Scientific) required course. Three periods a week throughout the year.

3. *Qualitative Analysis*. Lectures and quizzes on reactions and methods accompanying the laboratory work, with close personal supervision.

Required (Scientific) course. Two periods a week throughout the Sophomore and five periods the first term of Junior.

4. *Quantitative Analysis*. The first term is occupied with determinations of definite compounds, the second with mineral analysis.

Junior (Scientific) required course. Five periods a week during the second and third terms.

5. *Organic Chemistry*. Lectures, text-book work and quizzes illustrated in the laboratory.

Senior (Scientific) elective course. Three periods a week during the first and second terms. Also open as an elective to Seniors in the Classical course.

6. *Qualitative Analysis*. Similar to course 3.

Senior (Classical) elective course. Two to four periods a week throughout the year.

7. *Special Analytical Methods*. Water, milk, sugar, minerals, rocks, etc.

Senior (Scientific) elective course. Two to four periods a week throughout the year.

GEOLOGY AND MINERALOGY.

PROFESSOR BREIDENBAUGH.

1. *Geology*. Lectures, with reading references, principally to the works of Dana and Le Conte, accompanied by quizzes and topical examinations. Each student is required to write at least one paper illustrating, from his own observations, the principles of inorganic Geology.

Senior required course. Three hours a week during the second and third terms.

2. *Mineralogy*. The crystal form and physical properties of minerals are studied by means of the mineralogical collection. Afterwards each student is required to determine at least one hundred minerals by their blowpipe characteristics. This is followed by a brief course in Lithology and topographical Geology.

Senior elective course. Two periods a week throughout the year.

PHYSICS.

PROFESSOR PARSONS and MR. WEAVER.

a. *Elements of Physics*. Mechanics, Properties of Matter and Heat. This course includes three hours of lecture and class work and a minimum of three hours of laboratory work per week throughout the third term.

Required of all students in the Junior year (third term), excepting those taking Physics 1.

b. *Elements of Physics*. A continuation of Physics a. Sound, Light and Electricity. Three hours of lecture and class work and a

minimum of three hours of laboratory work throughout the first term.

Required of all students in the Senior year, excepting those who have taken Physics 1.

c. Elements of Physics. A special elective course given as a continuation of courses *a.* and *b.* to students in the Senior class who have not taken Physics 1, and who are preparing for courses in Medicine. One lecture and two to six hours laboratory work per week during the winter and spring terms. (When it is possible for students preparing for Medicine to take course 1, course *c.* will not be offered).

1. *General Physics.* A complete course in the Principles of Physics, comprising Mechanics, Properties of Matter, Heat, Sound, Light, and Electricity; the instruction being carried on by illustrated lectures, recitations, and laboratory work. Three hours of class work and a minimum of three hours of laboratory work throughout the year.

General elective course, open primarily to those in the Junior class.

2. *Theoretical Physics.* An advanced course in Mathematical Physics, including the Principles of Mechanics, Vibratory and Wave Motion, Electricity and Light, given by lectures, illustrated by experiments and accompanied by recitations from Watson's Text-book of Physics. Three hours a week throughout the year.

Elective, open to students having taken Physics 1, or with a sufficient preparation in Mathematics and Elementary Physics.

3. *Advanced Laboratory Physics.* A course in laboratory experiments open as an elective to those students who have finished the laboratory work of Physics 1, or its equivalent. Three to six hours a week throughout the year.

4. *Mechanics.* Principles of Kinematics, Statics and Dynamics. Two lectures per week with class exercises and problems. Elective for students having completed Physics *a.* and *b.*, or two terms of Physics 1. (May be taken as part of the required work in Physics by students who elected Physics 1.) Given in the same terms as courses *a.* and *b.*, or as announcement shall be made.

5. *Electrical Measurements and Machinery.* Lectures and laboratory work on practical electrical measurements and testing of simple electrical machines. Two or three periods for one-half year. Elective for students who have taken, or are taking, Physics 2.

6. *Physical Optics.* An advanced course in the theory of light, consisting of three lectures per week for one-half year. Elective

for students who have taken, or are taking, Physics 2, and have had calculus.

BIOLOGY.

PROFESSOR STAILEY.

The biological branches included in this course are given as electives during the Junior and Senior years. The Junior work is a *general culture course*, and is calculated to give the student a general understanding of current biological questions; it is offered to both Seniors and Juniors at the same time. The regular Senior work is more medical in cast, and in conjunction with the Junior work, provides an admirable preliminary preparation for the study of Medicine.

The work is carried on by lectures, demonstrations, dissections, drawings, quizzes and frequent written examinations. There are two well-lighted laboratories, provided with all needed instruments and apparatus, such as microscopes, microtomes, paraffine bath, incubator, etc. The branches are pursued in the following order:

JUNIOR YEAR.

1. *General Biology*. Three periods a week for ten weeks. This branch acquaints the student with microscopic technique and general laboratory methods, whilst he studies selected types of plants and animals, taken from the lower forms of life, as these are best adapted to demonstrate essential characteristics. The purpose is to ascertain fundamental facts of structure and life processes, with the significant relationships in the two great kingdoms of organic nature.

2. *Invertebrate Zoology*. Three periods a week for eight weeks. Representative types in this great group of animals are dissected. The basal plans in organization, with the varying modifications in form and function, are made subjects of practical study.

3. *Vertebrate Zoology*. Three periods a week for eight weeks, followed by two periods a week for ten weeks.

Fundamental vertebrate features of structure and function are carefully considered, whilst dissecting type forms, beginning with the lowest vertebrates known, and proceeding through the various classes, culminating with the Mammals; the latter class claiming special attention. Questions relating to comparative morphology and physiology of vertebrate animals are freely discussed.

SENIOR YEAR.

4. *Human Anatomy and Physiology.* Three periods a week for nineteen weeks.

Special attention is given to osteology, joints, ligaments and muscles. Tramond's preparations, consisting of real bony joints, with accurately placed artificial ligaments, and Azou's dissectable manikin, provide ample facilities for this part of the work. In this, as in all the branches of the course, physiological processes are constantly discussed.

5. *Mammalian Histology.* Three periods a week for eleven weeks.

With the aid of prepared microscopic slides, the student studies the minute anatomy of the different tissues of the body, and their actual relationships in the different organs. He also learns practically how to fix, harden, imbed, section, stain and mount the important tissues; thus acquiring a practical knowledge of histological work.

6. *Embryology.* Three periods a week for six weeks.

The principles of maturation and fertilization of the germ elements are considered. The stages of segmentation are observed in the ova of the Frog and Fish. The development of the Chick is studied. Entire mounts are made, as well as mounts of the serial sections of the incubating egg, from the first hour of incubation to the fifth day, when the organs are practically all formed. This branch constitutes a fitting close to the course, as it exhibits the steps in the development of the individual animal, and also epitomizes the history of the animal kingdom in general.

Botany. Class and field work in Systematic Botany. Each student is required to determine and mount specimens of at least fifty species of Phaenogams.

Sophomore required course. One period a week during the second half of the year.

HYGIENE.

Professor STAHLEY.

1. *Sanitary Science.* Lectures. House, municipal, State and National sanitation in their varied and rapidly developing new features are dwelt upon with the idea of furnishing a comprehensive yet intelligent outline of the subject.

Senior elective course. One hour a week throughout the year.

2. *Physical Culture.* This end is sought under medical guidance

in the Gymnasium during the college year from November 1 to April 1. A physical examination of each student is made when he enters college and such kinds of gymnastic exercises are prescribed as seem indicated. The purpose is to encourage the promotion of health and physical vigor as necessary for successful mental application. Since much harm is often done by injudicious physical exercise, special effort is made to advise those who are suffering from defective bodily conditions how they may be helped by hygienic methods and the selection of forms of exercise particularly suited to their case.

BIBLICAL DEPARTMENT.

Professor EVJEN.

1. *Old Testament History.* The books of Genesis, Exodus, Numbers and Joshua furnish the material to be mastered. In connection with the Scripture text a manual of Biblical geography and history is used.

Freshmen required course. One hour a week throughout the year.

2. *Old Testament History.* Jewish history from the death of Joshua to the Division of the Kingdom. The Biblical material is found in Judges, Samuel and Kings; the geographical and historical manual is continued.

Sophomore required course. One hour a week throughout the year.

3. *Biblical Study.* (a) The Life of Christ. (b) One of the Gospels in Greek.

Junior elective course. Four hours a week during the third term.

4. *New Testament Study.* The privilege of selecting the books to be studied is accorded to the class. Acts has been chosen this year.

Senior elective course. One hour weekly throughout the year.

GENERAL COLLEGE ORDERS.

EXAMINATIONS.

Examinations are held at the close of each term, or when a subject is finished. When a student is unavoidably absent from this examination, and his absence is excused by the Faculty, he is examined, at the discretion of the Faculty, either before leaving, or at the opening of the following term before entering his name on the roll of his class.

If a student be absent for some time from the institution, he must, on re-entering, sustain an examination upon the studies to which his class has attended during his absence.

RECORDS.

A careful record of the attendance, scholarship and conduct of each student is kept; a general statement of which record is transmitted to parents or guardians at the close of each term.

DEGREES.

To members of the graduating class in full and regular standing diplomas are granted, conferring in the Classical Course the degree of *Bachelor of Arts*, and in the Scientific Course the degree of *Bachelor of Science*.

The degree of *Master of Arts* and *Master of Science*, according to the previously received Bachelor degree, is conferred, in course, on Bachelors of three or more years' standing, provided that applicants for this degree make application therefor to the Faculty, in writing, at least one week before the annual Commencement.

TERMS AND VACATIONS.

The annual Commencement is held this year on the second Thursday of June. Regularly the first term begins on the second Thursday of September, and continues fourteen weeks; the second term begins two weeks after the close of the first term,

and continues twelve weeks; the third term begins one week after the close of the second, and continues ten weeks, until the day of the annual Commencement. The intervening periods of approximately two, one and thirteen weeks are devoted to the vacations.

It is highly important for students to be punctual in entering upon their duties at the beginning of the term.

Unexcused absences from recitations are counted as zeros upon the grades.

The attention of parents and guardians is especially called to the fact that absences from recitations, whether at the opening of terms, or at other times, are not excused except for sickness or imperative necessity.

EXPENSES.

The necessary expenses of the collegiate year, exclusive of books, clothing, furniture and traveling expenses, are as follows for each student:

		Low.	Moderate	Liberal.
Board for 37 weeks,		\$77.00	\$100.00	\$130.00
First term,				
	Tuition	\$12.00	30.00	30.00
	Gen. Exp.	18.00		
Second term,				
	Tuition,	\$9.00	23.00	23.00
	Gen. Exp.,	14.00		
Third term,				
	Tuition,	\$9.00	22.00	22.00
	Gen. Exp.,	13.00		
Room rent and heat (half room),			12.50	40.00
Washing,			12.00	12.00
			<hr/>	<hr/>
Total,		\$176.50	\$227.00	\$279.50

Board may be secured at prices varying from \$8.50 to \$10.50 a month in clubs; and from \$12.00 to \$14.00 in boarding houses. The average price paid this year has been about \$11.00.

A fee of \$1.50 a term for contingent expenses is charged to students not rooming in college buildings.

All members of the Senior class, upon their entrance on the last session of their course of study, pay to the Treasurer, with their college bills, an extra fee of \$5, which is refunded in case of failure to graduate.

LABORATORY CHARGES.

Students in the Scientific Course in Chemistry are charged a term fee of \$5.00 for the use of chemicals and general apparatus. Glassware and other apparatus of individual use are supplied at cost prices, each person being charged with each article received, and credited with the same on its return in good condition. The expense for this item in the first outfit has been about \$7.00, after which with proper care, it need not exceed \$1.50 a term. Students in general chemistry pay, for the course, a desk fee of \$10.00 for the use of chemicals and apparatus, and the cost price for all articles broken: this need not exceed \$1.00 a term. The fee for supplies in elective Mineralogy is \$1.50.

A fee of \$4.00 a term is charged in the department of Biology, for the use of material and apparatus.

Students in Physics, taking laboratory work are required to pay a fee of \$3.00 per term and in addition make a deposit of \$2.00 a term to cover breakage or damage to apparatus, etc.

Parents and guardians may intrust funds for students to any member of the Faculty, and the funds will be applied as may be required.

Tuition and other college dues for each term must, in all cases, be paid in advance. No student will be allowed to recite with his class until he has shown the Professor a receipt from the College Treasurer, or a note stating that he has made some satisfactory arrangement with the Treasurer.

ROOMS AND HEATING.

Students are required to lodge in the college dormitories, special cases excepted.

Unless all the available rooms of the college are occupied, there is no remission of the charge for room rent, except to students whose parents reside in town.

Rooms becoming vacant can be assigned at any time, preference being given according to class, to be occupied after the removal of the former occupant, and, if the person to whom the rooms are assigned so desire, the furniture in them shall be removed.

The charges for room rent and steam heat for the several rooms, given below, are for full use of the room; if two students occupy a room they divide the expenses. The annual charge is given first, and in parenthesis the division of this charge between the first, second and third terms of the collegiate year. E—East Division, M—Middle Division, W—West Division, S—South College.

At \$17.00 (6.00, 7.00, 4.00) : 4, 6 W ; 1 M ; 8 E.

At \$19.00 (6.50, 7.75, 4.75) : 5, 7 W ; 5, 7, 9, E.

At \$21.50 (7.50, 8.75, 5.25) : 1, 3 W ; 1, 3 E.

At \$26.75 (9.25, 11.25, 6.25) : 4, 6 E.

At \$27.75 (9.50, 11.00, 7.25) : 2, M.

At \$29.75 (10.25, 12.25, 7.25) : 3, 4, 5 M.

At \$32.00 (10.75, 13.00, 8.25) : 2 W ; 36 S.

At \$33.00 (11.25, 13.25, 8.50) : X S.

At \$35.50 (11.75, 14.50, 9.25) : 14, 15, 16, 17, 18, 19, 24, 25, 26, 27, 28, 29, 34, 35, 36, 37, 38, 39 E ; 6, 11, 16 M ; 12, 13, 14, 15, 20, 21, 22, 23, 28, 29, 30, 31 W.

At \$40.00 (14.00, 16.00, 10.00) : 22, 23, 24, 25, 30, 31, 32, 33 S.

At \$45.00 (15.00, 18.00, 12.00) : 26, 27, 28, 29 S.

At \$45.25 (15.50, 17.75, 12.00) : 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33 E ; 8, 9, 10, 11, 16, 17, 18, 19, 24, 25, 26, 27 W.

At \$47.75 (16.75, 19.00, 12.00) : 9 M.

At \$50.00 (17.00, 20.00, 13.00) : 20, 21, 34, 35 S.

At \$56.50 (20.25, 22.00, 14.25) : 8, 10, 12, 14, 18, 20 M.

At \$75.00 (26.00, 30.00, 19.00) : 17 and 19 M ; 21 and 22 M.
—Suites of two ; also 1, 2, 3, 4, 5, 6, 7, 8, S.

At \$90.00 (32.00, 36.00, 22.00) : 10 and 12, 11 and 13, 15 and 17, 16 and 18, S—suites of two.

At \$125.00 (43.00, 50.00, 32.00) : 9, 19, S—suites of three.

Rooms 3, 4, 5, 8, 10, 12, 14, 18 and 20 M include a large study and a good-sized bed-room. Even numbers, except 22, are on the north side of the building.

EQUIPMENT.

MUSEUM.

The museum contains varied collections of fauna and flora and minerals, all of which are freely used in instruction. The Mineralogical Cabinet contains over 6,000 specimens, including not only very full suites of the more common and more important minerals but also good specimens of many of the rarer minerals. The collection in Lithology numbering 3,000 specimens and of iron in Metallurgy, have, by recent additions, become fairly representative in the most important departments of these sciences. The Botanical Collection of 6,000 specimens, mainly presented by Miss Elizabeth C. Morris, of Germantown, Pa., is well arranged and contains a full representation of American Flora. A beginning has been made of a Chemical Museum—to contain specimens of raw and manufactured materials in chemical industries. Friends of our Institution can greatly aid us by additions to these collections.

LITERARY SOCIETIES.

Two literary societies are connected with the College, the Phrenakosmian and the Philomathæan. These exert a favorable influence in the intellectual and social culture of their members. The exercises consist of music, essays, orations and debates. The practical acquaintance with the parliamentary law here formed makes these societies the best schools for free citizenship. The halls occupy two wings on the third story of the Recitation Hall, and are conveniently and handsomely furnished. Their sessions are held every Friday evening.

A reading room, managed by these societies and the Y. M. C. A., contains a great variety of periodical literature.

LIBRARIES.

The College Library, to which all students have access without charge, contains many works of reference. During term time

the Library is open for consultation and the drawing of books four hours each week day, except on Saturday, when it is open for two hours.

The income of a fund invested for the purpose provides for frequent additions of the best publications.

The Libraries of the Literary Societies comprise a large number of well selected and standard volumes, which are annually increased through the income of separate funds.

These libraries are accessible to the members of the societies under their respective regulations, and are open for the issue of books on Wednesday at 4 P. M. and Saturday at 10 A. M. during term time. They are in the same hall with the College Library. In addition to several thousand partly classified but unbound pamphlets

The College Library contains	15,466 volumes
The Philomathæan Library contains	6,782 volumes
The Phrenakosmian Library contains	5,942 volumes
The Stuckenberg Library contains	2,000 volumes
The Benj. K. Miller Library contains	700 volumes
	<hr/>
Total	30,890 volumes

Benj. K. Miller (class of 1877), of Milwaukee, Wis., within the past year added to the Library about 700 volumes mainly on economics and kindred subjects.

SCHOLARSHIPS.

A number of permanent scholarships, securing free tuition, have been endowed and are under the control of synods, congregations, or individuals. C. W. Thompson, Esq., of Lancaster, established a scholarship for the purpose of giving the benefit of a collegiate education to the most successful and indigent pupil who shall have passed through the prescribed course in the High School of Gettysburg.

PRIZES.

MUHLENBERG FRESHMAN PRIZE.—The interest of a fund of five hundred dollars, contributed by Prof. F. A. Muhlenberg, D.D., LL.D., is given at the close of the year to that member of the Freshman class who, upon examination, is found to have attained the highest degree of scholarship in the studies of the Classical course.

BAUM MATHEMATICAL PRIZE.—Charles Baum, M.D., Ph.D., class of 1874, of Philadelphia, has contributed five hundred dollars, the income from which is to be given annually to that member of the Sophomore class who shows the greatest proficiency in Mathematics.

HASSLER LATIN PRIZE.—Mr. Charles W. Hassler furnished a fund, the interest of which is annually expended for the purchase of a Gold Medal, to be presented to the student of the Junior class, who, at the end of the year, shall be the best Latin scholar.

REDDIG ORATORICAL PRIZE.—Mr. Clarence Jacob Reddig, class of 1877, of Shippensburg, contributes annually the sum of twenty-five dollars as an Oratorical Prize, to be contended for in public by the Junior class, on Tuesday of Commencement week.

GRAEFF PRIZE.—This prize was founded by Mr. John E. Graeff, class of 1843. The sum of thirty dollars is awarded for the best English Essay from the Senior class, on a subject previously assigned. The decision is made by a committee appointed by the Professor of English Literature.

GIES PRIZES IN DEBATE.—William J. Gies, Ph.D., class of 1893, professor in Columbia University, offers through the Pen and Sword Society three prizes of \$36, \$24 and \$15, respectively, for the encouragement of skill in debating. The first contest takes place about the middle of November between teams chosen by the Sophomore and Freshman classes, respectively, and the winning team is rewarded with \$15. The second contest, between the winning team and a team from the Junior class, takes place about the middle of March, with \$24 to the winners. The

third contest, between the second victors and a team from the Senior class takes place about the middle of May, with a reward of \$36 to the winners. Winners of the first prize are excluded from further competition.

PITTSBURG PRIZE IN CHEMISTRY.—The Pittsburg-Gettysburg Club have established a prize of \$25. to be given to the student who does the best work in Chemistry during the Junior year of the Scientific course.

BLOOMHARDT MERCURY PRIZES.—Dr. Fred H. Bloomhardt, class of 1894, of Altoona, Pa., offers \$25 annually to be devoted in prizes to the encouragement of writing for *The Mercury*, the College literary journal.

Students in special courses are not admitted to competition for any of the foregoing prizes.

BUILDINGS.

PENNSYLVANIA HALL, erected in 1836-38, was remodeled and improved in 1889. It contains eighty-six rooms for students, many of them *en suite*, so that those who may wish to do so can have separate study and sleeping rooms. In this building are the reading rooms of the Literary Societies and the large room used by the College Y. M. C. A. These rooms are heated by steam, and water pipes and lavatories connected with the town system of water works are on the first floor.

SOUTH COLLEGE, erected in 1897, is a building of three stories containing rooms for about fifty students. It is finished entirely in hard wood, is heated with steam, has hot and cold water on each floor and lavatories in convenient places. The first floor has eight rooms, each with open fire place, tile hearth and spacious closets. These rooms may be used by one or two occupants, as preferred. On the second floor all rooms are *en suite*, each suite consisting of a study with one bed-room or two. These are also provided with hearths, closets, etc. The third floor is divided into sixteen single rooms.

THE RECITATION HALL, erected in 1888-89, is used for general college purposes. On the first floor are the library room and office, the President's office, the reception room, and recitation rooms. The second floor has recitation rooms. The third floor has in the front center a large museum room with valuable collections. In the rear center are a mineralogical laboratory and additional recitation rooms. In the north wing is the hall of the Philomathæan Society, in the south wing the hall of the Phrenakosmian Society. In the basement is the laboratory of the Department of Physics which, with the recitation rooms above it, has been fitted up and partially equipped with a fairly extensive selection of high-grade apparatus. The laboratory is supplied with water, gas and electric power, both the alternating current and direct current from dynamos and storage cells.

THE BRUA MEMORIAL CHAPEL, erected in 1889-90, is the gift of the late Col. John P. Brua, U. S. A., as a memorial to his parents. This building is used for morning prayers, for Commencement exercises, lectures and other occasions requiring a large audience room.

THE CHEMICAL LABORATORY is a frame building, erected in 1872 and in 1890 converted to its present use. It contains on one floor a large lecture room, an office, store-rooms, chemical-room, balance-room, and two laboratories—one for general chemistry, with desk room for forty-eight students, the other for analytical chemistry, with desk room for forty-eight students. The building is fitted with the most approved appliances; gas and water at each desk; there are ample hoods, a water-distilling apparatus and large sand bath, and other necessary apparatus. The balance-room contains balances set on walls especially built for them. In the basement are an assay-room and a store-room.

THE ASTRONOMICAL OBSERVATORY, erected in 1875, is furnished with an achromatic telescope, having an object glass of six and one-half inches, with a transit instrument, chronometer and other appliances.

THE GYMNASIUM has on the first floor ample dressing rooms and bathing facilities, and a base ball cage. On the second, or main floor, a class of sixty members can be accommodated for gymnastic drill. The selection of specialized apparatus in light and heavy gymnastics is varied and complete. The Professor's office where all the physical tests and measurements are taken, is also on this floor, and is furnished with a full set of anthropometric apparatus.

On the gallery there is a first-class "Roberts' patent" running track with seating accommodation for visitors.

The gymnasium is open at stated times every afternoon and evening and Saturday all day, aggregating twenty-four hours each week, apportioned between regular class practice and general practice.

Athletic sports are encouraged, but under such regulations, as it is believed, prevent them from becoming a source of demoralization to the students, or interfering with the legitimate work of the Institution. A student who has not first secured the permission of his parents is not allowed to engage in any public contest.

ATHLETIC FIELD. Immediately north of the college buildings is the athletic field, which is carefully graded and securely inclosed and covers an area of over four acres. It affords room and facilities for all kinds of out-door sports.

THE BOILER HOUSE supplies the steam required for heating all the college buildings, and has capacity for more.

Besides these buildings there are on the campus the President's house, a double house for professors, and four halls erected by Greek Letter Societies.

GENERAL ALUMNI ASSOCIATION.

The Alumni Association of Pennsylvania College holds its regular annual meeting on Tuesday evening of Commencement week. In 1876 the Board of Trustees granted the Association the privilege of nominating six of their number to membership

in the Board, to fill alternate vacancies till the whole number is secured.

The officers of the association are: President, Charles S. Duncan, Esq. class of '82; Vice Presidents, Charles J. Fite, '98; Prof. Charles H. Huber, '92; Hiram H. Keller, Esq., '01; Secretary, Clyde B. Stover, '94; Treasurer, H. C. Picking, '79.

COLLEGE PERIODICALS.


The *College Mercury*, published monthly in term time under the control of the Literary Societies, is a literary journal sustained by the contributions of students and alumni. *The Gettysburgian*, under the private control of students, is published weekly and makes a specialty of college and town news. *The Spectrum*, an annual publication of the Junior class, contains pictorial representations of the College with its various organizations and surroundings as well as useful statistics about students and alumni. All aim at enlarging the means of communication between the College and its graduates, former students and friends. These enterprises are cordially commended to the patronage of those interested in the welfare of the Institution.

TEACHERS.

The attention of School-boards and others desiring teachers is called to the fact that it is frequently in the power of the Faculty to recommend suitable persons. Many graduates fill successfully important positions in public and private institutions.

FORM OF BEQUEST.

I give, bequeath and devise to "The Trustees of Pennsylvania College, of Gettysburg, in the County of Adams," in the State of Pennsylvania, and their successors and assigns forever, the sum of ———— (or shares in the bank of ————, or any other personal property or real estate, as the case may be), to be applied to the Endowment Fund of the Institution.

 *A bequest to a benevolent corporation, to be legal, must be made at least 90 days before the death of the Testator, in Pennsylvania, and 60 days in New York.*

PREPARATORY DEPARTMENT.

AIM OF THE DEPARTMENT.

Stevens Hall is located within two minutes' walk from Pennsylvania College. The object of its foundation, which the school has steadily kept in view, was to present to the public AN ACADEMY UNDER THE CONTROL OF COLLEGE AUTHORITIES. The advantages of such a combination are obvious. To students who desire to prepare for college it offers a course of preparatory instruction under the eyes of their future professors and in the line of the college requirements. The school, being open at all times to visits from instructors in the College, and receiving from time to time their counsel, is able to give to those students who desire it just that preparatory study and drill which will lead to the most profitable and creditable work in the college classes. Time is concentrated upon the studies in which it is needed, and STUDENTS WHO HAVE SATISFIED THE REQUIREMENTS IN THE PREPARATORY DEPARTMENT ARE ADMITTED TO THE FRESHMAN CLASS OF THE COLLEGE UPON THE PRINCIPAL'S RECOMMENDATION WITHOUT FURTHER EXAMINATION. On the other hand, students who do not expect to enter College, and who desire only an English education, preparatory to business, teaching, etc., may find in this school an academy of high grade under the supervision of college professors, in a college atmosphere, and with free access to the college libraries. Near association with a college is a stimulus to study, and often awakens a desire for a higher education.

GOVERNMENT.

The Preparatory Department, though under the control of the College authorities, has a separate building of its own and is under the special direction of a Principal who gives to it his whole time in the work of instruction and supervision. He is aided by three assistants.

The school seeks to develop intelligent Christian gentlemen.

The discipline aims at making the pupil SELF-GOVERNING, and at leading him to habits of self-respect and self-control by training the judgment, quickening the conscience, and cultivating a delicate sense of honor.

When it is evident that a pupil has no proper appreciation of his opportunities, and is harming the school rather than receiving benefit from it, his parents are asked to remove him.

During study hours students are expected to be in their rooms, which are subject to frequent visits by instructors.

ADMISSION.

Students are admitted at any time to the grade for which they have been qualified by previous study. But it is highly important that the student enter the school as early in the course as possible. With the present requirements for admission, a hurried preparation is generally unwise and tends to embarrass the student's future progress, especially in Latin and Greek. Accurate, technical scholarship, at which the school aims, can hardly be secured without long drill, especially in the languages. Without intending at all to discourage those whose circumstances, rather than their desire, lead them to attempt short preparation, all who can are urged TO LAY THE FOUNDATION CAREFULLY. An additional year of time at the beginning is always a gain in the ease and success with which future work is done. The fact, however, is recognized that students differ widely in ability and industry, and every opportunity is afforded those who can do so to cover the required work in a shorter time.

No examinations are required for admission, the pupil being at once assigned to the class for which his previous studies seem to have fitted him. If, upon trial, it be found that a mistake has been made, the Principal reserves the right to transfer the student to the proper grade.

Students who have advanced sufficiently in Mathematics and the English branches to enter the Freshman class, but have not studied Latin or Greek, will here find special arrangements made for their rapid advancement. Girls will be received as day schol-

ars. A study hall has been reserved for their exclusive use and they are not obliged to mingle with the general class except at regular recitation periods. When at school they are under the care of a lady superintendent. Refined homes for them can be secured in town at moderate rates. They will be under the care of the Principal, who will be fully informed of their conduct.

RELIGIOUS EXERCISES.

On Sunday morning the students of the Preparatory Department are required to attend worship with the college instructors and students in the College Church, or such other place of worship as their parents or guardians may designate. A Bible class is conducted by the Principal every Sunday morning and is a part of the regular course of study. Chapel service is held every morning except Saturday.

COURSE OF STUDY.

The course of study is designed to prepare students of either sex, who desire to enter College, for the Freshman class, and to give students who do not expect to enter College, so far as it can carry them, a wide intelligence, true culture, and habits of careful and sound thinking. New and important subjects have been added, and increased attention is given to the lower classes. All students of the school have free access to the College Library, and students over fifteen years of age may join either of the College Literary Societies. There is also a Literary Society conducted by the students of the Department.

There is no musical course in the school, but arrangements for instruction at moderate terms may be made in the town without conflict with school work.

A report of the work and conduct of each student is sent home at the end of each term, and at any other time upon request or when the Principal thinks it desirable.

There are two courses, the Classical (with Greek), and the Scientific or Academic (with German, Physics and History). The subjects taught are as follows:

LATIN.

Middle Class. Comstock's First Latin Book. Second year Latin, with continuous drill in the grammar; analysis of words and sentences; prose composition based on the text.

Sub-Freshman Class. Cicero's Orations, first three against Catiline, with sight translation of advance passages; drill in syntax; Bennett's prose composition based on Cicero. Virgil's *Æneid*, I-III, with study of Latin Prosody; Mythology.

GREEK.

Middle Class. White's First Greek Book; complete survey of the language with syntactical analysis of the first eight chapters of Xenophon's *Anabasis*; study of word formation, rules of syntax, historical allusions; special drill on vocabulary.

Students in the Scientific course take English and French History (Montgomery's Series) instead of Greek.

Sub-Freshman Class. Xenophon's *Anabasis*, I-III, with continuous drill in grammar and Attic forms. Translation at sight of book V, with special study of modes and tenses.

Students in the Scientific course will take instead of Greek Coleman's *Physics* and Vos' *Essentials of German* during the year.

Students who are prepared for college in all the other entrance requirements will be allowed to concentrate upon Latin, Greek and Mathematics, and a special class will be organized for their benefit.

MATHEMATICS.

Middle Class. Arithmetic completed, with the Metric system; Commercial Arithmetic. Wells' *Academic Algebra* through Simple Equations containing two unknown quantities.

Sub-Freshman Class. Algebra completed with special drill in the Equation. Drill in Geometrical Figures with Kitchener's *Note Book* as a guide. Wentworth's *Geometry*, I-III; solution of original problems.

HISTORY.

Middle Class. Montgomery's *History of the United States*.

Sub-Freshman Class. Grecian and Roman History with attention to social customs, education, literature, thought and art. Reading from standard works in history and biography.

ENGLISH.

Middle Class. Buehler's English Grammar. Reading, recitation, composition and declamation. Spelling, punctuation, capitals. Narration and description. Study of outlines.

Literature: Church's Story of the Iliad, Cooper's Last of the Mohicans, Longfellow's Miles Standish and Evangeline, Dickens' Christmas Carols, Tennyson's Enoch Arden, Irving's Sketch Book.

Sub-Freshman Class. Syntactical analysis. Buehler's Exercises in English. Study of the paragraph; figures, types of style. Abstracts and outlines. Declamation. Composition.

Literature: Macauley's Essays on Frederick the Great, Addison's Sir Roger de Coverley Papers, Scott's Ivanhoe and Lady of the Lake, Hawthorne's Scarlet Letter, Eliot's Silas Marner, Tennyson's Idylls of the King, DeQuincey's The Flight of the Tartars.

NATURAL SCIENCE.

Middle Class. Coleman's Physics. Physiology with direct reference to Hygiene.

Sub-Freshman Class. Eclectic. Physical Geography. Natural laws and forces.

BUSINESS.

A course of instruction is given in Book-keeping when desired. This course is intended to fit young men for a business career.

PHYSICAL EXERCISE.

The building is surrounded with large and pleasant grounds adapted to football, baseball, tennis and other out-door sports; and in addition to this the students enjoy all the privileges and instruction of the College Gymnasium.

BUILDINGS AND ROOMS.

The building, located on a slight eminence north of town, is heated throughout by steam, and supplied with pure artesian water. A comfortable toilet room has been placed on the first floor. The rooms on the third floor are now arranged *en suite* with a broad archway separating the study and sleeping apartments. On the second floor the rooms are separate.

The rooms are furnished with heavy oak wardrobes, bookcases,

washstands, tables and chairs. Iron enameled beds, complete with springs and mattresses, are also provided. Two students occupy two rooms, one for studying, the other for sleeping. The rooms are furnished with two single bedsteads, mattresses, chairs, table, bookcase, clothes closet, window curtains and washstand. The other articles needed for the rooms, and *to be furnished by the occupants*, are as follows: Washbowl and pitcher, mirror, lamp, oil can, slop pail, and carpet. The carpet for the third floor study room is $10\frac{1}{2}$ by $10\frac{1}{2}$, sleeping room $10\frac{1}{2}$ by 11, for a second floor study room 10 by $12\frac{1}{2}$. Each student must also be provided with towels, three sheets for single bed, two pillow slips, a spread, comforts and blankets, and a feather pillow.

EXPENSES.

	1st Term	2nd Term	3rd Term
Tuition,	\$12.00	\$9.00	\$9.00
Room-rent and Use of Furniture,.....	8.25	7.00	7.00
Steam Heat,	3.60	4.20	1.80
Gymnasium Fee,	2.00	2.00	2.00
Incidentals,	13.00	11.50	9.50
*Athletic Fee,	2.00	2.00	2.00
	\$40.85	\$35.70	\$31.30

Students do not board in the building, but in clubs and private families at a cost of from \$2.10 to \$3.50 a week. Washing is \$1.75 a month. A deposit of one dollar will be required at the beginning of the year to insure the return of keys and the proper care of the room. This will be returned to the student at the end of the year if no damage has been sustained. Students who do not room in the building are not charged for room-rent or for heating.

All bills with the Institution must be paid at the beginning of each term. Money entrusted to the Principal for the use of students will be expended as desired.

For further information address

REV. CHARLES H. HUBER, A.M., *Principal*

*By payment of this fee students are entitled to free admission to all inter-collegiate athletic contests. Students who do not feel able to pay the fee can be excused by making application to the proper authority.

REGISTER OF STUDENTS.

COLLEGIATE DEPARTMENT.

GRADUATES.

William Ira Book, B.E., Juni- ata Coll., '96 M.E., '98	<i>Gettysburg.</i>	123 Carlisle St.
John Catherman Himes, B.S., Penn. Coll., 1908	<i>McAllisterville,</i>	1 York St.
Paul Singmaster, A.B.	<i>Gettysburg,</i>	Confederate Ave.
Rufus Miley Weaver, A.E., Penn. Coll., 1907	<i>Gettysburg,</i>	129 Baltimore St.

SENIOR CLASS.

CLASSICAL COURSE.

Elizabeth Jeannette Bayly	<i>Gettysburg,</i>	301 York St.
Virginia Marion Beard	<i>Gettysburg,</i>	209 N. Washington St.
Paul Frederick Bloomhardt	<i>Altoona.</i>	19 E.
Helen Harriet Erenneman	<i>Harrisburg,</i>	139 N. Washington St.
James Howard Buck	<i>Hughesville,</i>	21 E.
Milo R. Clare	<i>Abbottstown.</i>	1 York St.
Helen Grace Culp	<i>Gettysburg,</i>	115 Chambersburg St.
Earle Vinton Ehrhart	<i>Glenville.</i>	24 W.
George Raymond Haaf	<i>Elmer. N. J.,</i>	29 E.
Edward Rohrbaugh Hamme	<i>Brodbecks,</i>	24 W.
George Thebald Heintz	<i>Buffalo, N. Y.,</i>	1 W.
Charles Felder Vanmetre Hesse	<i>Leechburg,</i>	15 W.
George Linn Kieffer	<i>Millersburg,</i>	23 W.
Clark Benjamin Kistler	<i>Marietta,</i>	19 E.
Charles Leonard Kopp	<i>Lineboro, Md.,</i>	7 M.
Elias Trostle Lau	<i>East Berlin.</i>	22 E.
John Calvin McCarrell	<i>Shippensburg.</i>	35 S.
Robert Ellsworth Peterman	<i>Hanover,</i>	11 M.
Norman Guy Phillipy	<i>Greencastle.</i>	4 S.

Mervin Elmer Smith	<i>Biglerville,</i>	28 E.
Edgar Ernest Snyder	<i>Bedford,</i>	7 M.
Samuel Franklin Snyder	<i>Indiana,</i>	12 E.
Simon Snyder	<i>Clearspring, Md.,</i>	28 E.
Harry Blaine Strock	<i>Harrisburg,</i>	4 M.
Alfred Levis Taxis	<i>Wilkinsburg,</i>	10 E.
Grover Tracy	<i>Lineboro, Md.,</i>	34 E.
Harry Rey Wolf	<i>Harrisburg,</i>	27 E.
George Edgar Wolfe	<i>Annville,</i>	13 W.

SCIENTIFIC COURSE.

George Nicholas Acker	<i>Washington, D. C.,</i>	8 M.
Joseph Arnold	<i>Brooklyn, N. Y.,</i>	1 W.
Maurice Blocher Bender	<i>Gettysburg,</i>	131 Carlisle St.
Arthur Aaron Bright	<i>Harrisburg,</i>	4 M.
Felton Samuel Dengler	<i>Stcelton,</i>	20 S.
Victor Budd Hausknecht	<i>Hazleton,</i>	35 S.
Karl Frederick Irvin	<i>Altoona,</i>	12 and 14 S.
John Roy McMillan	<i>Gettysburg,</i>	Confederate Ave.
Oliver Daniel Mosser	<i>Ashland, Ky.,</i>	1 and 4 S.
Benjamin Philson	<i>Berlin,</i>	9 M.
Samuel Philson	<i>Berlin,</i>	9 M.
Clarence Lantz Steumpfig Raby	<i>Phoenixville,</i>	1 and 4 S.
Charles Garfield Rensburg	<i>Petersville, Md.,</i>	17 W.
Clarence E. Reyner	<i>Knor,</i>	5 M.
Keller Emrich Rockey	<i>Waynesboro,</i>	8 M.
Harry Clayton Sieber	<i>Mifflintown,</i>	21 and 25 S.
Leslie Watson Taylor	<i>Norwood,</i>	13 E.
Lloyd Van Doren	<i>New Germantown, N. J.,</i>	29 S.
Arthur Keller Santee Waltz	<i>Chewsville, Md.,</i>	5 E.
Maurice Stevenson Weaver	<i>Gettysburg,</i>	261 Baltimore St.
John Brown Zinn	<i>Gettysburg,</i>	240 Baltimore St. Seniors, 49.

JUNIOR CLASS.

CLASSICAL COURSE.

Charles Greenough Aurand	<i>Altoona,</i>	17 M.
Harry Fridley Baughman	<i>Uniontown, Md.,</i>	23 E.
Ralph Emrick Bell	<i>York,</i>	14 M.
Samuel Edward Bower	<i>Berwick,</i>	Observatory.

Ross Eldon Bowers	<i>Martinsburg,</i>	17 M.
George Edward Bowersox	<i>Silver Run, Md.,</i>	14 and 16 E.
William Herschel Brown	<i>Gainsboro, Va.,</i>	304 W. Middle St.
Eva Pauline Derr ✓	<i>Upperco, Md.,</i>	139 N. Washington St.
Roy Victor Derr	<i>Creagerstown, Md.,</i>	2 W.
Mary Beatrice Dunlevy	<i>Hazleton,</i>	209 N. Washington St.
Samuel Fausold	<i>Latrobe,</i>	22 M.
Carl Weiser Fleck	<i>Riegelsville,</i>	31 and 32 E.
Edward Niles Frye	<i>Pittsburg,</i>	8 E.
Robert Harris Gearhart	<i>Sunbury,</i>	32 S.
Paul Koller Gotwald	<i>York,</i>	9 W.
Florence Gertrude Heathcoté	<i>Gettysburg,</i>	135 Buford Ave.
Earl Cameron Herman	<i>York,</i>	10 M.
Harvey Sheely Hoshour	<i>Brooklyn, N. Y.,</i>	11 W.
John Jenkins	<i>Pottsville,</i>	10 M.
Julius Grover Cleveland Knipple	<i>Silver Run, Md.,</i>	13 E.
Harry Davis Lighty	<i>Steelton,</i>	21 E.
William Armour Logan	<i>Philadelphia,</i>	1 E.
Guy Emory McCarney	<i>Gettysburg,</i>	168 Carlisle St.
Paul Munde Marshall	<i>Shippensburg,</i>	31 S.
Carl Frank Miller	<i>Kingsville,</i>	9 E.
Paul S. Miller	<i>Hanover,</i>	34 E.
John Rogers Musselman	<i>Gettysburg,</i>	247 Baltimore St.
Elmer Frederick Rice	<i>Myersville, Md.,</i>	2 W.
John Beatty Ritter	<i>Fayetteville,</i>	6 M.
Ralph Edward Rudisill	<i>Hanover,</i>	15 and 17 E.
Charles Norman Shindler	<i>York,</i>	16 W.
Henry Kuhns Starner	<i>Westminster, Md.,</i>	14 M.
Levering Tyson	<i>Reading,</i>	31 and 33 E.
John E. Weitzel	<i>Wrightsville,</i>	10 W.
Herman Diedrich Wolff	<i>Philadelphia,</i>	26 S.
Leslie Kauffman Young ✓	<i>Kauffman's,</i>	5 M.

SCIENTIFIC COURSE.

Bruce Maurice Bare	<i>York,</i>	22 M.
Joseph Tate Bayly, Jr.	<i>Gettysburg,</i>	301 York St.
Herbert Addington Bream	<i>Gettysburg,</i>	R. F. D. 4.
David Monroe Crist	<i>Walkersville, Md.,</i>	5 W.
William Howard Etsweiler	<i>Millersburg,</i>	5 M.
Maude Lydia Kathryn Fogle	<i>Hazleton,</i>	109 Springs Ave.

Harvey Nicholas Gilbert	<i>Chambersburg,</i>	30 S.
Adam James Hazlett	<i>Aspinwall,</i>	7 S.
Arthur Douglas Hunger	<i>Vandegrift,</i>	7 S.
George Edward Jacobs, Jr.	<i>Johnstown,</i>	34 S.
Joseph Henry Shuff	<i>Emmitsburg,</i>	23 E.
John Harrison Sachs	<i>Gettysburg,</i>	140 E. Middle St.
Raymond Witmer Sieber	<i>Gettysburg,.</i>	37 W. Middle St.
Clarence Frederick Stifel	<i>Allegheny,</i>	22 S.
Harvey Wilmer Strayer	<i>York,</i>	20 and 22 W.
Ernest Henry Yohn	<i>Mechanicsburg,</i>	19 S.
		Juniors, 52

SOPHOMORE CLASS.

CLASSICAL COURSE.

Charles Millard Allabach	<i>Orangeville,</i>	32 E.
Roy Randolph Allen	<i>Landisburg,</i>	30 E.
Mary Martha Bausch	<i>Everett,</i>	137 N. Washington St.
Earl Jerome Bowman	<i>Halifax,</i>	17 W.
Clare McLean Davis	<i>Williamsport,</i>	115 Buford Ave.
Louis Heltzel	<i>Connellsville,</i>	17 E.
Helen Kendlehart	<i>Gettysburg,</i>	47 W. Middle St.
Blanche Swope Klinger ¹	<i>Gettysburg,</i>	130 Broadway.
Miles Henry Krumbine	<i>Schaefferstown,</i>	24 and 26 W.
Clay Edward Rice	<i>Myersville, Md.,</i>	2 W.
Oliver Cleveland Riethmiller	<i>Indiana,</i>	32 E.
Charles William Seville	<i>McConnellsburg,</i>	3 E.
Joseph Ernst Stermer	<i>York,</i>	24 and 26 E.
Elmer Clayton Stouffer	<i>York,</i>	25 W.
Newton Daniel Swank	<i>Johnstown,</i>	20 E.
Harry Morgan Taxis	<i>Wilkinsburg,</i>	10 E.
Burnadette Thomas	<i>Gettysburg,</i>	240 Chambersburg St.

SCIENTIFIC COURSE.

Stanley Thomas Baker	<i>Noxen,</i>	6 E.
Ernest Barto	<i>Hughesville,</i>	22 E.
Floyd William Bream	<i>Gettysburg,</i>	R. F. D. 4.
Alcone Daniel Breitenreiter	<i>Pittsburg,</i>	6 S.
Clarence Paul Brown	<i>Smithsburg, Md.,</i>	30 E.
Maude Adeline Dorsey	<i>Motters, Md.,</i>	329 Baltimore St.

Charles Parson Finch	<i>Ramsey, N. J.,</i>	24 and 26 E.
Frances Marks Fritchey	<i>Gettysburg,</i>	63 Lincoln St.
George Granville Hatter	<i>Millersburg,</i>	23 W.
George Fernsler Hocker	<i>Steelton,</i>	20 S.
Joseph Leffler	<i>Millersburg,</i>	15 and 17 S.
William Whitney Leffler	<i>Millersburg,</i>	7 S.
Samuel Frantz Lehman	<i>Greensburg,</i>	8 S.
Beatrice Verlye London	<i>Hazleton,</i>	139 N. Washington St.
William Walker McCaw	<i>McKeesport,</i>	6 S.
Edgar Grim Miller, Jr.	<i>Columbia,</i>	24 S.
Milton Miller	<i>Sand Patch,</i>	11 E.
Milton Valentine Miller	<i>Columbia,</i>	24 S.
Richard J. Miller	<i>Harrisburg,</i>	33 S.
Willanna Miller	<i>Gettysburg,</i>	157 Carlisle St.
Guy Samuel Raffensperger	<i>Arendtsville,</i>	23 S.
Paul Beverly Stanley Rice	<i>Lemoyne,</i>	14 M.
John Lawrence Shelley	<i>Mechanicsburg,</i>	16 S.
James Craig Small	<i>Chambersburg,</i>	34 S.
Rodney Taintor Smith	<i>Newport,</i>	28 S.
George Mervin Spangler	<i>East Berlin,</i>	18 M.
John Luther Spangler	<i>York,</i>	18 M.
John William Weimer	<i>York,</i>	18 E.
Rufus Nathaniel Wenrick	<i>Robesonia,</i>	4 W.
		Sophomores 46.

FRESHMAN CLASS.

CLASSICAL COURSE.

John Edgar Ainsworth	<i>Le Gore, Md.,</i>	321 Carlisle St.
Wilbur Moses Allison	<i>York,</i>	22 W.
Harry Hursh Beidleman	<i>Harrisburg,</i>	12 E.
Samuel Isett Bloomhardt	<i>Altoona,</i>	14 S.
William Harrison Burd	<i>Cresson,</i>	20 M.
Charles Stahle Butt	<i>Gettysburg,</i>	123 Carlisle St.
Thomas Tyson Cook	<i>Harrisburg,</i>	4 M.
Harold Sheely Diehl	<i>Clearspring, Md.,</i>	11 W.
Carl Cheston Dreibelbis	<i>Bloomsburg,</i>	19 W.
Paul Melanchthon Enders	<i>York,</i>	115 Buford Ave.
Charles Fausold	<i>Latrobe,</i>	21 M.
Luther Melanchthon Fritsch	<i>Amsterdam, N. Y.,</i>	12 W.

Margaret Gilliland	<i>Gettysburg,</i>	R. F. D. 12.
Elmer William Harner	<i>Littlestown,</i>	18 W.
Ernest Roy Hauser	<i>Hauser, Md.,</i>	27 W.
Clark Wesley Heller	<i>Wapwallopen,</i>	26 Chambersburg St.
Hoyt Eugene Heller	<i>Wapwallopen,</i>	26 Chambersburg St.
Joseph Henry Hurst	<i>Hanover,</i>	37 E.
Wayne Blessing Krebs	<i>Hellam,</i>	16 W.
Sara Nancy Lau	<i>East Berlin,</i>	144 Carlisle St.
Bernard Seiss Lawyer	<i>Westminster, Md.,</i>	16 E.
Charles Edgar Liebgott	<i>Martinsburg,</i>	17 M.
Miles Raymond Law Markley	<i>Altoona,</i>	26 Chambersburg St.
Curtis Lyman Moody	<i>Glen Rock,</i>	14 M.
Franklin Joseph Peck	<i>Duncansville,</i>	20 M.
Walter Lee Reitz	<i>Shanksville,</i>	31 W.
Mary Louise Rowe	<i>Gettysburg,</i>	201 N. Washington St.
Earl Stockslager Rudisill	<i>Littlestown,</i>	16 M.
Stewart Hartman Rudisill	<i>Gettysburg,</i>	159 Broadway.
Raymond Musser Rudy	<i>Harrisburg,</i>	27 W.
Luther Irvin Sachs	<i>Waynesboro,</i>	25 Chambersburg St.
Willard Elias Saltgiver	<i>Sinsheim,</i>	36 E.
Newton Henry Sanders	<i>Millmont,</i>	39 E.
George Elmer Sheffer	<i>Bair,</i>	31 W.
Charles Augustus Shilke	<i>Lineboro, Md.,</i>	36 E.
Walter Daniel Spangler	<i>Gettysburg,</i>	39 E.
Charles Andrew Tome	<i>Maytown,</i>	20 M.
Norman Jay Gould Wickey	<i>Littlestown,</i>	18 W.
Emmett Robert Woods	<i>Mechanicsburg,</i>	25 E.

SCIENTIFIC COURSE.

Irvin Brainard Alleman	<i>Littlestown,</i>	9 S.
Clarence Edgar Bachman	<i>Westminster, Md.,</i>	12 M.
Harry Smith Beetem	<i>Longsdorf,</i>	19 W.
Mark Brenner	<i>Iola,</i>	129 Chambersburg St.
Thomas Neely Cashman	<i>York Springs,</i>	29 W.
Robert Harry Corson	<i>Hughesville,</i>	16 S.
Wilbur Luther Davis	<i>Ursina,</i>	2 S.
Joseph Herr Fritchey	<i>Gettysburg,</i>	63 Lincoln St.
Robert James Hartman	<i>McKeesport,</i>	5 S.
Ross Maynard Hosack	<i>Indiana,</i>	2 S.
Herbert Fowler Humphries	<i>Norwood,</i>	20 E.
Niamond Fooreman Keller	<i>Mifflintown,</i>	14 W.

Paul Whitesell Kepple	<i>Vandegrift,</i>	115 Chambersburg St.
William Sherman McCullough, Jr.	<i>Chicora,</i>	16 M.
Edwin Clay Morrow	<i>Loysville,</i>	6 W.
Amos Sentman Musselman	<i>Gettysburg,</i>	247 Baltimore St.
Edred Joseph Pennell	<i>Mifflintown,</i>	21 S.
John Clويد Rinn	<i>Indiana,</i>	38 E.
Hubert Royer	<i>Grantsville, Md.,</i>	205 Buford, Ave.
Charles Milton Sincell	<i>Oakland, Md.,</i>	3 S.
Martin Luther Valentine	<i>Harney, Md.,</i>	13 M.
William Elliott Valentine	<i>Gettysburg,</i>	112 Springs Ave.
John Elmer Weinel	<i>Ingleside,</i>	25 Chambersburg St.
Maurice Cornelius Wentz	<i>Lineboro, Md.,</i>	28 W.
Harry Snyder Wolfersberger	<i>Rockwood,</i>	30 W.
Robert Ezra Yohn	<i>Mechanicsburg,</i>	19 S.
Mark Victor Ziegler	<i>Melrose, Md.,</i>	7 W.
		Freshmen, 66.

PARTIAL COURSE.

Harry Aldinger	<i>Harrisburg,</i>	27 S.
Howard Ward Alleman	<i>Littlestown,</i>	9 S.
James Rezner Barber	<i>Harrisburg,</i>	
John Bruce Beard	<i>Gettysburg,</i>	State Road.
Howard Paul Blake	<i>Altoona,</i>	5 S.
Roy Talmage Brumbaugh	<i>Philadelphia,</i>	20 M.
Levi Adam Bupp	<i>York,</i>	9 W.
Edgar George Clark	<i>Harrisburg,</i>	8 S.
Frank Mumma Comfort	<i>Mechanicsburg,</i>	28 S.
Anna Gilliland	<i>Gettysburg,</i>	R. F. D. 12.
Milton Brindle Hartzell	<i>Fayetteville,</i>	115 Buford Ave.
Lawrence Gladstone R. Hitchins	<i>Frostburg, Md.,</i>	11 S.
E. F. Hollenback	<i>Pittston,</i>	35 E.
James Carson Holtzman	<i>Mechanicsburg,</i>	18 M.
Lida Hooper	<i>Gettysburg,</i>	Seminary Ridge.
Harry Stanley Kuhlman	<i>Ursina,</i>	Seminary Ridge.
Charles Edwards Lewars	<i>Gettysburg,</i>	129 Lincoln St.
Mathias Smyser Lewis	<i>York,</i>	10 and 12 S.
Harry Hunseicker Mercer	<i>Mechanicsburg,</i>	27 S.
Paul E. C. Mountz	<i>Highspire,</i>	157 Carlisle St.
Raymond Boyd Nell	<i>Allen,</i>	115 Buford Ave.
Walter Clippinger Nickles	<i>Shippensburg,</i>	11 S.
George Franklin Poffenberger	<i>Foltz,</i>	12 M.
Walter Wallace Reindollar	<i>Taneytown, Md.,</i>	28 W.

Charles Allen Russell	<i>Hughesville,</i>	15 and 17 S.
Charles Frederick Steck, Jr.	<i>Frederick, Md.,</i>	8 W.
Seth Taylor Stugart	<i>Montoursville,</i>	10 W.
Samuel Guy Todd	<i>Mifflintown,</i>	21 W.
Ira McClay Wentzel	<i>Bellwood,</i>	21 W.
Richard Stockton Wise	<i>Canton, O.,</i>	8 M.
		Partial Course 30.

PREPARATORY DEPARTMENT.

SUB-FRESHMAN CLASS.

John Oram Appler	<i>Gettysburg,</i>	26 E. High St.
Arthur Edgar Armitage	<i>Newark, N. J.,</i>	38 S.
Maurice Edgar Baker	<i>Gettysburg,</i>	222 Baltimore St.
William James Barnes	<i>Gettysburg,</i>	R. F. D. 4.
Fred Wilmer Bietsch	<i>Chambersburg,</i>	29 S.
John Milton Blocher	<i>Gettysburg,</i>	28 W. Middle St.
Donald Bruce Coover	<i>Gettysburg,</i>	Springs Ave.
Paul Snyder Creager	<i>Dillsburg,</i>	204 Springs Ave.
Roy Diehl	<i>Greencastle,</i>	23 S.
Samuel Reynolds Diehl	<i>Cashtown,</i>	Cashtown.
Charles Homer Drum	<i>Gettysburg,</i>	39 York St.
George Edward Eshenaur	<i>Oberlin,</i>	39 S.
Charles David Fleagle	<i>Thurmont, Md.,</i>	26 Chambersburg St.
Samuel Walker Forney	<i>Gettysburg,</i>	4 Confederate Ave.
James H. Gross	<i>Manchester,</i>	34 S.
John Webster Harris	<i>Bloomsburg,</i>	26 Chambersburg St.
John Calvin Hartman	<i>Gettysburg,</i>	25 Hanover St.
Clyde Leroy Hesson	<i>Taneytown, Md.,</i>	39 S.
August Herman Hinternes	<i>Baltimore,</i>	205 Buford Ave.
Edgar Bruce Jacobs	<i>Abbottstown,</i>	27 S.
Jack Krissinger Kurtz	<i>Berlin,</i>	33 S.
Ellis L. Mellot	<i>Everett,</i>	46 S.
Ernest Luther Pee	<i>Everett,</i>	46 S.
Roy Moses Raffensperger	<i>Arendtsville,</i>	23 S.
Andriez Ramirez	<i>Manzillo, Cuba,</i>	26 Chambersburg St.

James Jay Robbins	<i>Eyers Grove,</i>	8 E.
Carl Arvid Sandgren	<i>New York, N. Y.,</i>	36 S.
Charles Augustus Sauter	<i>Williamsport,</i>	43 S.
Verna Alverta Schwartz	<i>Gettysburg,</i>	143 E. Middle St.
David Luther Shaffer	<i>Johnstown,</i>	38 S.
Edward Hood Sincell, Jr.	<i>Oakland, Md.,</i>	3 S.
John Morris Steck	<i>Smithsburg, Md.,</i>	38 E.
Alter Kreeger Ulsh	<i>Washington, D. C.,</i>	41 S.
Robert Byron Walker	<i>Meyersdale,</i>	29 S.
Harvey Samuel Weidner	<i>York Springs,</i>	20 E. Water St.
Samuel Knox White	<i>Fairfield,</i>	321 Carlisle St.
Folliott Thornton Whitney	<i>St. Paul, Minn.,</i>	40 S.
John Wesley Wolfe	<i>Maytown,</i>	45 S.
		Sub-Freshmen, 58.

MIDDLE CLASS.

Margaret Evangeline Barnes	<i>Gettysburg,</i>	R. F. D. 4.
Charles Alfred Barr	<i>Altoona,</i>	27 S.
Harvey McKnight Black	<i>Gettysburg,</i>	204 Carlisle St.
Alfred Fowler Bradbury	<i>Espy,</i>	25 W.
John Butt	<i>Gettysburg,</i>	123 Carlisle St.
William Walter Deneen	<i>Frostburg, Md.,</i>	29 S.
Robert Hiland Dewey	<i>Philadelphia,</i>	33 S.
Russell Isaac Doebler	<i>Montoursville,</i>	29 S.
Malcolm David Fleming	<i>Bellwood,</i>	25 W.
John Winebrenner Grove	<i>Gettysburg,</i>	Hunterstown Road.
Dewitte Roscoe Hartman	<i>Millville,</i>	35 E.
Harold Byron Heinsling	<i>Altoona,</i>	28 S.
Clement Roscoe Hoffman	<i>Gettysburg,</i>	166 Carlisle St.
Ralph Garn Ickes	<i>Ellon,</i>	43 S.
Walter Epley Johns	<i>Gettysburg,</i>	Emmitsburg Road.
Roger Mitchell Klinger	<i>Gettysburg,</i>	138 Broadway.
Auguste Charles Lardy	<i>New York, N. Y.,</i>	24 S.
Luther Edward McDonnell	<i>Gettysburg,</i>	140 W. Middle St.
John Croft Myers	<i>Marion,</i>	23 S.
Roy Harrison Myers	<i>Gettysburg,</i>	Mummasburg Road.
William Brolaski Martin	<i>Gettysburg,</i>	43 Lincoln Ave.
Charles Nicely	<i>Montoursville,</i>	29 S.
Thomas Hay Nixon	<i>Gettysburg,</i>	1 Campus.
Oscar Berger Noren	<i>Bridgeport, Conn.,</i>	30 S.
Ralph Alexis Shafer	<i>Burkittsville,</i>	166 Carlisle St.

George Emerson Snyder	<i>New Oxford,</i>	45 S.
Harry Jay Troxell	<i>Gettysburg,</i>	27 Hanover St.
Maurice Albert Ziegler	<i>Gettysburg,</i>	122 E. Middle St.
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SUMMARY.

Graduates,	4
Seniors,	49
Juniors,	52
Sophomores,	46
Freshmen,	66
Partial Course Students,	30
	<hr/>
Collegiate Department,	247
Preparatory Department,	66
	<hr/>
Total,	313

COMMENCEMENT, 1908.

DEGREES, HONORS AND PRIZES.

BACHELORS OF ARTS.

CLASS OF 1908.

Markley Connel Albright	Harvey Ross McAllister
David Lincoln Baker	Anna Elizabeth McLaughlin
Albert Daniel Bell	Fannie Long McMahan
William Albert Berkey	Edmund Longinus Manges
Grace Maria Blocher	William Louis Meals
Henry Michael Bower	Levi Forrest Mercer
Edwin Allan Chamberlin	Effie Matilda Miller
Harry Watson Davison	Stacy Eugene Peters
Oscar Carlton Dean	George Michael Rice
Harry Dollman	Jonas Keffer Robb
Cora Myrtle Drum	Albert Lawrence Sauter
Zenas Orton Fiscus	Paul Singmaster
Frank P. Fisher	Louis Earle Smith
James Aldis Fritz	Loy Woods Stambaugh
Lillia Rebekah Gantt	Curvin Horatio Stein
Herbert Spencer Garnes	Howard Chester A. Stouffer
Frederick Melanchthon Harmon	Fred Gallagher Troxell
Warren Bailey Heilman	William Claude Waltemyer
Mary Hay Himes	Anna Jean Wetterau
George Walter Kessler	Allston Leffler Whitney
Guy Beaver King	Frederick William Wittich
Irvin Martin Lau	

Rev. Carl Edgar Mumford as of the class of 1903.

BACHELORS OF SCIENCE.

John McCrea Dickson	John Catherman Himes
Joseph Chalfont Dickson	Charles Philip Lantz
Leroy Earle Enterline	George Lauman Laverty
Gideon Moul Haar	Allen Clair Lebo
Horatio Ambrose Helder	James Haines McClure

William Bradbury McClure	Russell Simpson Shoemaker
Elmer William Martin	Roy Eyster Smith
Robert Weir Michael	Guy Markley Stock
Edgar Allen Miller	Raymond Frederick Topper
Frederick Augustus Muhlenberg	Martin Luther Wachtel
Howard Stanley Pownall	

George Michael Trostle as of the class of 1906.

Rufus Miley Weaver, A.B., class of 1907.

CLASS OF 1908.

First Honor.

Fannie Long McMahan	Anna Jean Wetterau
William Albert Berkey	Grace Maria Blocher

Second Honor.

Edmund Longinus Manges	Markley Connell Albright
Mary Hay Himes	George Walter Kessler
Louis Earle Smith	George Michael Rice
Cora Myrtle Drum	Horatio Ambrose Helder
Zenas Orton Fiscus	Levi Forrest Mercer
Fred Gallagher Troxell	

GRAEFF PRIZE:

For best essay on Thomson's "The Seasons."

William Albert Berkey

CLASS OF 1909.

HASSLER GOLD MEDAL: JUNIOR LATIN PRIZE:

Harry Rey Wolf

with honorable mention of

George Theobald Heintz	Charles Leonard Kopp
Elizabeth Jeannette Bayly	Helen Grace Culp
Paul Frederick Bloomhardt	Helen Harriet Brenneman
Virginia Marion Beard	

PITTSBURG CLUB PRIZE IN CHEMISTRY:

Lloyd Van Doren

John Roy McMillan

with honorable mention of

John Brown Zinn

Felton Samuel Dengler

REDDIG PRIZE IN ORATORY:

S. Franklin Snyder
with honorable mention of
George E. Wolfe

GIES PRIZES IN DEBATE:

CLASS OF 1910.

First Prize.

Bruce Maurice Bare Samuel Fausold
John Jenkins

Second Prize.

CLASS OF 1909.

Arthur Keller Santee Waltz George Edgar Wolfe
Edgar Ernest Snyder

CLASS OF 1910.

BAUM SOPHOMORE MATHEMATICAL PRIZE:

Elmer Frederick Rice John Rogers Musselman
Harry Davis Lighty

with honorable mention of

Edward Niles Frye Roy Victor Derr
Carl Weiser Fleck Ralph Edward Rudisill
Harvey Nicholas Gilbert Carl Cameron Herman

CLASS OF 1911.

MUHLENBERG FRESHMAN PRIZE: GENERAL SCHOLARSHIP:

Earl Jerome Bowman

MASTER OF ARTS IN COURSE:

1894

Elmer McClellan Stahl

1895

Rev. Charles Stork Jones

1896

Rev. Grayson Zacharias Stup

1902

James Arthur Smyser

1903

Rev. David Sparks Weimer Rev. Ralph Henry Bergstresser

1904

Adie Elmer Black Rev. Hauer Hall Sharp
Rev. John McClay Diehl Rev. Fred'k Charles J. Sternat

1905

Paris Biemensderfer Andes Rev. Chas. William Heathcote
Philip Raymond Bikle Robert Nicholas Heltzel
Rev. Clarence Edwin Butler Paul Luther Kunzman
Rev. Andrew Luther Dillenbeck Isaac Elmer Walter
Rev. Charles Ganger Rev. William Arter Zundel

MASTERS OF SCIENCE IN COURSE:

1902

Anna Martha Swartz

1905

Bruce Urban Parker Cobaugh John Christopher Diehl
George Rupp Pretz

HONORARY MASTERS OF ARTS:

Prin. David H. Gardner, York, Pa.
Supt. Charles W. Stine, York, Pa.
Rev. Rene H. Williams, Harrisburg, Pa.

HONORARY DOCTOR OF LITERATURE:

William C. Stoever, Esq., ('68), Philadelphia.

SUMMARY OF GRADUATES.

(Exclusive of Honorary Degrees.)

Bachelor of Arts,	1366
Bachelor of Science,	130
Doctors of Philosophy (holding their first degrees from other institutions),	7
Whole number of graduates,	1503

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Seventy-eighth Annual Catalogue

OF THE

OFFICERS AND STUDENTS

OF

PENNSYLVANIA COLLEGE

GETTYSBURG, PENN'A.

FOR THE ACADEMIC YEAR

1909--1910

CALENDAR 1909-1911.

1909.

- Sept. 16. Thursday morning—Beginning of First Term.
 Dec. 22. End of First Term.

WINTER VACATION.

1910.

- Jan. 5. Beginning of Second Term.
 Mar. 23. End of Second Term.

EASTER RECESS MAR. 23 (NOON) TO MAR. 30 (7.40 A. M.).

- Mar. 30. Beginning of Third Term.
 May 16. Junior Latin Examination for Hassler Prize.
 June 6, 7, 8. Final Examinations of Senior Class.
 June 12. Sunday Morning—Baccalaureate.
 June 12. Sunday Evening—Discourse before the Y. M. C. A.
 June 13, 14. Entrance Examinations.
 June 14. 8 A. M., Tuesday—Meeting of Board of Trustees.
 June 14. 10 A. M., Tuesday—Junior Oratorical Contest
 June 14. Evening—Annual Meeting of Alumni—President's
 Reception.
 June 15. 9 A. M., Wednesday—Commencement Exercises—
 Alumni Collation.

SUMMER VACATION.

- Sept. 15. Thursday Morning—Beginning of First Term.
 Dec. 21. End of First Term.

WINTER VACATION.

1911.

- Jan. 4. Beginning of Second Term.
 Mar. 28. End of Second Term (Noon).
 Mar. 28. Beginning of Second Term (Noon).

EASTER RECESS APR. 12 (NOON) TO APR. 19 (7.40 A. M.)

- June 14. Commencement.

OFFICIAL ROLL OF TRUSTEES.

President, HON. EDMUND D. GRAFF
Vice President, HON. SAMUEL McC. SWOPE
Secretary, CHARLES M. STOCK, D.D.
Treasurer, HENRY C. PICKING

Elected.

1873.	Hon. George Ryneal, Jr.	Martinsburg, W. Va.
1878.	Harvey W. McKnight, D.D., LL.D.	Gettysburg.
1890.	Hon. Edmund D. Graff	Worthington.
1890.	Hon. Samuel McC. Swope	Gettysburg
1890.	William H. Dunbar, D.D.	Baltimore, Md.
1892.	Thomas C. Billheimer, D.D.	Gettysburg.
1893.	John Wagner, D.D.	Hazleton.
1894.	Charles M. Stock, D.D.	Hanover.
1894.	Matthew G. Boyer, D.D.	Philadelphia.
1896.	John B. McPherson, Esq.	Boston, Mass.
1897.	John Jacob Young, D.D.	New York, N. Y.
1897.	William A. Shipman, D.D.	Johnstown.
1898.	Henry C. Picking	Gettysburg.
1899.	Charles F. Stifel	Pittsburg.
1899.	Henry H. Weber, D.D.	York.
1905.	Milton H. Valentine, D.D.	Philadelphia.
1906.	Samuel G. Hefelbower, D.D.	Gettysburg.
1906.	George E. Neff, Esq.	York.
1907.	Luther P. Eisenhart, Ph.D.	Princeton, N. J.
1907.	Martin H. Buehler	Pittsburgh.
1907.	Hon. R. William Bream	Gettysburg.
1907.	Frederick H. Bloomhardt, M.D.	Altoona.
1907.	Alpheus Edwin Wagner, D.D.	Altoona.
1908.	William J. Gies, Ph.D.	New York, N. Y.
1908.	William L. Glatfelter	Spring Forge.
1908.	Frank E. Colvin, Esq.	Bedford.
1908.	John F. Dapp	Harrisburg.
1908.	George B. Kunkle, M.D.	Harrisburg.
1908.	Jacob A. Clutz, D.D.	Gettysburg.

FACULTY AND INSTRUCTORS.

 REV. S. G. HEFELBOWER, A.M., D.D.

 PRESIDENT, AND WILLIAM BITTINGER PROFESSOR OF INTELLECTUAL AND
 MORAL SCIENCE.
3 *Campus.*

JOHN A. HIMES, Litt.D.

GRAEFF PROFESSOR OF ENGLISH LITERATURE AND POLITICAL SCIENCE.

130 *Carlisle St.*

REV. PHILIP M. BIKLE, A.M., Ph.D.

DEAN, AND PEARSON PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

2 *Campus.*

EDWARD S. BREIDENBAUGH, A.M., Sc.D.

OCKERHAUSEN PROFESSOR OF CHEMISTRY AND MINERALOGY, AND CURATOR
 OF THE MUSEUM.227 *Carlisle St.*

GEORGE D. STAHLEY, A.M., M.D.

DR. CHARLES H. GRAFF PROFESSOR OF BIOLOGY AND HYGIENE, AND SECRE-
 TARY OF THE FACULTY.*Confederate Avenue.*

HENRY B. NIXON, Ph.D.

ALUMNI PROFESSOR OF MATHEMATICS AND ASTRONOMY.

1 *Campus.*

REV. OSCAR G. KLINGER, A.M.

FRANKLIN PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

130 *Broadway.*

KARL J. GRIMM, Ph.D.

PROFESSOR OF THE GERMAN LANGUAGE AND LITERATURE.

228 *Carlisle Street.*

REV. CHARLES F. SANDERS, A.M.

PROFESSOR OF PHILOSOPHY.

50 *Springs Avenue.*

LOUIS A. PARSONS, Ph.D.

PROFESSOR OF PHYSICS.

250 *Springs Avenue.*

REV. ABDEL R. WENTZ, A.M.

ACTING AMANDA RUTPERT STRONG PROFESSOR OF ENGLISH BIBLE, AND
 CHAPLAIN.50 *Springs Avenue.*

 PROFESSOR OF FRENCH.

CLYDE B. STOVER, A.M.

ASSISTANT IN CHEMISTRY.

E. Lincoln Street.

JAMES A. DICKSON, A.B.

ASSISTANT IN CHEMISTRY.

149 *Chambersburg Street.*

HAROLD S. LEWARS, A.M.

ASSISTANT IN ENGLISH.

109 *Broadway.*

RUFUS M. WEAVER, A.B., B.S.

ASSISTANT IN PHYSICS.

129 *Baltimore Street.*

FRED G. TROXELL, A.B.

ASSISTANT IN MATHEMATICS.

27 *Hanover Street.*

A. J. WHITE HUTTON, A.M., LL.B.

LECTURE ON JURISPRUDENCE.

Chambersburg.

HENRY WOLF BIKLE, A.M., LL.B.

LECTURER ON CONSTITUTIONAL LAW.

Philadelphia.

REV. CHARLES H. HUBER, A.M.

PRINCIPAL OF THE PREPARATORY DEPARTMENT, AND PROFESSOR OF LATIN
AND ENGLISH.

411 *Carlisle Street.*

CURWIN H. STEIN, A.B.

TUTOR IN GREEK AND HISTORY.

16 *Stevens Hall.*

FRANKLIN W. MOSER, A.B.

TUTOR IN MATHEMATICS AND NATURAL SCIENCE.

42 *Stevens Hall.*

MARY H. HIMES, A.B.

PRECEPTRESS.

130 *Carlisle Street.*

JOHN W. WEIMER.

PHYSICAL INSTRUCTOR.

30 *East College.*

JOHN T. JENKINS.

PROCTOR.

7 *Middle College.*

SAMUEL E. BOWER.

PROCTOR.

14 *South College.*

SALLIE P. KRAUTH.

ASSISTANT LIBRARIAN.

3 *Baltimore Street.*

KARL J. GRIMM, Ph.D.

REV. S. G. HEFELBOWER, D.D.,

LIBRARY COMMITTEE.

FRED. C. VAIL.

COACH IN ATHLETICS.

E. Water Street.

REV. HERBERT A. RINARD.

SECRETARY OF Y. M. C. A.

28 *Chambersburg Street.*

COURSES OF STUDY.

The College offers the following courses:

- I. A Classical course leading to the degree of A.B.
- II. A Scientific course leading to the degree of B.S.
- III. Partial courses without reference to a degree.

TERMS OF ADMISSION.

Entrance examinations are held on Monday and Tuesday before Commencement and on Thursday, the day of opening, in September. While there may be examinations at other times, all applicants are urged to present themselves on the days appointed. Students from the Preparatory Department are admitted to the Freshman class upon the recommendation of the Principal without further examination. Applicants recommended by approved Academies and High Schools as having mastered the required preparatory studies are admitted on an extended trial, without a formal examination. *Women are admitted to all departments as day scholars.*

CLASSICAL COURSE.

*Candidates for the Freshman class in 1910 are subject to examination in the following books or their equivalents:

LATIN.—Latin Grammar: three books of Caesar's *Gallic War*; three books of Virgil's *Æneid*; three orations of Cicero.

GREEK.—Greek Grammar complete; three books of the *Anabasis*; Jones' Prose Composition complete.

MATHEMATICS.—Arithmetic complete, including the Metric System; Elementary Algebra (Wells' Academic, through Quadratics, Robinson's complete, or Wentworth's to Chapter XVIII); Geometry, three books of Wentworth's, or Phillips and Fisher's or the equivalent in other authors.

*See p. 8.

ENGLISH.—In English the following books, recommended by the National Conference on Uniform Entrance Requirements, will be required:

(a.) Reasonable familiarity with the substance of the work:

For 1910 the following are preferred, though the alternatives, in some cases allowed, will be accepted: Shakespeare's *Merchant of Venice* and *Julius Caesar*; Addison's *Sir Roger de Coverley Papers*; Franklin's *Autobiography*; Macaulay's *Lays of Ancient Rome*; Scott's *Ivanhoe* and *Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *Passing of Arthur*; Hawthorne's *House of the Seven Gables*; George Eliot's *Silas Marner*.

For 1911 and 1912 the following are preferred, though the alternatives are accepted:

Shakespeare's *Merchant of Venice* and *Julius Caesar*; Addison's *Sir Roger de Coverley Papers*; Goldsmith's *Deserted Village*; Scott's *Ivanhoe* and *Lady of the Lake*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *Passing of Arthur*; Ruskin's *Sesame and Lilies*.

(b.) More careful and specific study:

For 1910 and 1911: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Carlyle's *Essay on Burns*.

The candidate will be required to present evidence of a general knowledge of the subject matter and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics designed to test the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books. Questions involving the essentials of Eng-

lish Grammar and the fundamental principles of Rhetoric will be part of the examination.

No candidate will be accepted in English whose work is notably deficient in spelling, punctuation, idiom, or division into paragraphs.

GEOGRAPHY AND HISTORY.—Modern Political Geography; History of the United States (the equivalent of Sheldon's); Essentials of Greek and Roman History.

SCIENTIFIC COURSE.

Candidates for the Freshman class of the Scientific Course are subject to the same examination as for the Classical Course with the omission of the Greek. For this omission may be substituted one of the following:

I. PHYSIOGRAPHY. — (Elementary Physical Geography), BOTANY (Elements of systematic and structural departments), or ELEMENTARY PHYSICS.

II. HISTORY.—Histories of England and France (Montgomery is recommended).

NEW REQUIREMENTS.

By action of the Board of Trustees in June, 1909, the following entrance requirements for the *Classical Course* were adopted to go into effect in September, 1911:

LATIN.—Grammar and Elementary Composition; Caesar, four books; Cicero, six orations; Virgil, six books.

GREEK.—Grammar and Elementary Composition; Xenophon's *Anabasis*, four books; Homer's *Iliad*, three books.

MATHEMATICS.—Plane Geometry complete; Algebra to the Binominal Theorem, including Ratio and Proportion, the Progressions and Simple Permutations and Combinations.

ENGLISH.—The requirements of the National Conference on Uniform Entrance.

For the *Scientific Course* the requirements are the same as for the Classical with the exception that the Greek is replaced by one year's work in Physics and two years' work in German or French. Covering all these requirements substitutions by equivalents in the same subject, with the approval of the head of the corresponding departments, are allowed.

PARTIAL COURSES.

Students not candidates for a degree are admitted to the privileges of the College and allowed to take special undergraduate studies, selected with the approval of the faculty in such a manner as to secure the full and profitable employment of their time. Such special students undergo the examination necessary to ascertain their fitness for the proposed courses.

ADVANCED STANDING.

A candidate for advanced standing, in addition to the foregoing studies, is examined in the various books which the class he proposes to enter has studied.

An accurate and thorough acquaintance with the studies required for admission is indispensable, in order to receive the full advantage of the college course. Students imperfectly prepared for the class they enter are embarrassed in their future progress and are seldom able to make up their deficiency.

No one is admitted to the Senior class after the beginning of the second term.

TESTIMONIALS.—Satisfactory testimonials of good moral character are required, and students from other institutions must bring certificates of regular and honorable dismissal.

SUPERVISION AND DEVOTIONAL EXERCISES.

The President and the Dean, residing on the campus have special supervision of the buildings and are at all times easily accessible to the students. The College seeks to secure the co-operation of

each individual student in the preservation of good order and the attainment of a high standard of scholarship and manly conduct.

Prayers, with the reading of the Scriptures and singing, conducted by the President or Chaplain, are attended daily at 7.40 A. M., on week days, in Brua Chapel. At 10.30 A. M. on Sunday all the students are required to attend public worship in the College Church, or in such other place of worship as their parents or guardians may designate by written request. Catechetical instruction is provided for those who desire it, and students are welcomed to other religious services in the churches of the town.

The Young Men's Christian Association of the College is an active agent in promoting religious interest among the students. Regular and special meetings for prayer are conducted by the members and classes for Bible study are formed. An annual course of lectures and musical entertainments under the same auspices adds much to the social enjoyment and culture of the college community.

INSTRUCTION.

In the undergraduate courses each candidate for a degree must have sixteen exercises a week of required or elective work in recitations, lectures, or laboratory periods, besides the gymnasium periods. Usually there are three exercises each day except Saturday, when there is commonly only one. Laboratory, drawing and surveying periods are each two and a half hours. A gymnasium period is one hour. A student in any of the special courses must have not less than eleven exercises a week.

RULES FOR THE CHOICE OF ELECTIVES.

1. No student shall be allowed to pursue any elective study unless the instructor in the same is satisfied that the student is prepared to pursue said study.

2. The choice of electives shall be made at the beginning of the year, and no change shall be allowed during the year.

The following schedule presents a general view of the studies and hours of the various classes:

SCHEDULE FOR THE CLASSICAL COURSE.

CLASS	HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FRESHMAN	8 or 9	Greek	Latin	Greek	Latin	Greek	Latin
	10 or 11	Rhetoric	Mathematics	Mathematics	Mathematics	Mathematics	
	2 or 3	French	History	French	History	Bible	
SOPHOMORE	8 or 9	Latin	Greek	Latin	Greek	Latin	Greek
	10 or 11	German	English	English	German	English	
	2 or 3	Mathematics	Bible	Mathematics	1 } Elocution 2 } Botany 3 }	Mathematics	
JUNIOR	8 or 9	English	German	Psychology	Psychology	English	German
	10 or 11	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	1 } Latin 2 } <i>Latin</i> 3 } <i>Latin</i> <i>Bible</i> <i>English</i>	1 } Greek 2 } <i>Greek</i> 3 } <i>Bible</i> <i>Biology</i>	1 } Latin 2 } <i>Latin</i> 3 } <i>Latin</i> <i>English</i>	1 } Greek 2 } <i>Greek</i> 3 } <i>Bible</i> <i>Biology</i> <i>English</i>	
	1 to 3	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	Chemistry or French	
SENIOR	8 or 9	1 } Astronomy 2 } Theism	Pol. Science	1 } Astronomy 2 } Theism	Pol. Science	1 } Astronomy 2 } Theism	Pol. Science <i>Chemistry</i> (9) <i>Bible</i> (9)
	10 or 11	1 } Physics 2 } Geology	1 } Physics 2 } Geology	1/2 } Evid. Christ 1/4 } Ethics	1/2 } Evid. Christ 1/4 } Ethics	1 } Physics 2 } Geology	<i>Biology</i>
	1 to 3	<i>History</i> Pol. Science Savit. Science <i>Chemistry</i> <i>Philosophy</i> <i>Physics</i>	<i>History</i> Greek <i>Biology</i> <i>Philosophy</i> <i>Mineralogy</i>	German Latin <i>Chemistry</i> <i>Philosophy</i> <i>Physics</i>	<i>History</i> Greek <i>Biology</i> <i>Mineralogy</i>	German Latin <i>Chemistry</i> <i>Philosophy</i> <i>Physics</i>	

Astronomy, one hour a week; *Observatory* (night) work.
Math. Problems, two periods a week at convenience.

Aesthetics, one hour a week at convenience.
Comp. Philol., one hour a week at convenience.

Italics indicate Elective Studies.
 Numerals, 1, 2, and 3, before a subject, indicate the term during which the subject is studied.

SCHEDULE FOR THE SCIENTIFIC COURSE.

CLASS	HRS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FRESHMAN	8 or 9	Chemistry	Latin	Chemistry	Latin	Chemistry	Latin
	10 or 11	Rhetoric	Mathematics	Mathematics	Mathematics	Mathematics	
	2 or 3	French	History	French	History	Bible	
SOPHOMORE	8 or 9	Latin	Chemistry	Latin	Chemistry	Latin	Mech. Draw.
	10 or 11	German	English	English	German	English	
	2 or 3	Mathematics	Bible	Mathematics	1 } Elocution 2 } 3 } Botany	Mathematics	
JUNIOR	8 or 9	English	Surveying	Psychology	Psychology	English	German
	10 or 11	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Chemistry</i> <i>Biology</i> <i>Physics</i>	German	1 } <i>Chemistry</i> 2 } <i>Chemistry</i> 3 } <i>Biology</i>	Surveying (9)	1 } <i>Chemistry</i> 2 } <i>Chemistry</i> 3 } <i>Biology</i>	
	1 to 3	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Biology</i> <i>Physics</i>	Chemistry or French	1 } <i>Math.</i> 2 } <i>English</i> 3 } <i>Biology</i> <i>Physics</i>	Chemistry or French	
SENIOR	8 or 9	1 } <i>Astronomy</i> 2 } <i>Theism</i> 3 }	Pol. Science	1 } <i>Astronomy</i> 2 } <i>Theism</i> 3 }	Pol. Science	1 } <i>Astronomy</i> 2 } <i>Theism</i> 3 }	Pol. Science <i>Chemistry</i> (9) <i>Bible</i> (9)
	10 or 11	1 } <i>Physics</i> 2 } <i>Geology</i> 3 }	1 } <i>Physics</i> 2 } <i>Geology</i> 3 }	1/2 } <i>Evid. Christ</i> 1/4 } <i>Ethics</i>	1/2 } <i>Evid. Christ</i> 1/4 } <i>Ethics</i>	1 } <i>Physics</i> 2 } <i>Geology</i> 3 }	<i>Biology</i>
	1 to 3	<i>History</i> <i>Pol. Science</i> <i>Socit. Science</i> <i>Physics</i> <i>Chemistry</i> <i>Philosophy</i>	<i>History</i> <i>Biology</i> <i>Mineralogy</i> <i>Philosophy</i>	<i>German</i> <i>Physics</i> <i>Chemistry</i> <i>Philosophy</i>	<i>History</i> <i>Biology</i> <i>Mineralogy</i>	<i>German</i> <i>Physics</i> <i>Chemistry</i> <i>Philosophy</i>	

Astronomy, one hour a week; *Observatory* (night) work.

Math. Problems, two periods a week at convenience.

Italics, indicate Elective Studies.

Numerals, 1, 2, and 3, before a subject, indicate the term during which the subject is studied

Mathematics, one hour a week at convenience.

Comp. Philol., one hour a week at convenience.

DEPARTMENTS OF INSTRUCTION.

PHILOSOPHY.

Professors GRIMM, SANDERS and WENTZ.

1. *Psychology.* The functions of the human mind are explained as they manifest themselves in experience. The history of the progress in Psychology—especially the rapid strides in recent years—is dwelt upon sufficiently to show the relation of present-day Psychology to that of the past. The student is instructed in methods of careful introspection by reference to the methods and best results in the most recent experimental investigation.

Junior required course. Two hours a week, first and second terms.

2. *Logic.* The nature and processes of reasoning and the conditions and methods of proof are studied. The aim is to acquaint the student with the laws governing scientific investigation and positive constructive thinking.

Junior required course. Two hours a week during third term.

3. *Philosophy, Course 1.* A rapid survey of the History of Philosophy with a view to showing the development of the various schools and their distinguishing principles, and a course in Introduction to Philosophy presenting an outline of present problems.

Senior elective. Two hours a week throughout the year.

4. *Philosophy, Course 2.* The first term is devoted to the genetic study of the social functions of mind; the second term, to an Introduction to Sociology; and the third term to the Psychological Principles of Education. The guiding thought of the course is, man as a member of society, how he has become the kind of member which he is and the processes by which he may be improved. Psychology, Sociology, Pedagogy.

Senior elective. Two hours a week throughout the year.

5. *Introduction to Philosophy.* It is the aim of this course to acquaint the student with the problems of Philosophy, their origin, interpretation and bearing.

Elective, open to Juniors and Seniors. One hour a week throughout the year.

6. *Ethics.* The aim is to have the student think through to solution the problems arising from the study of man as an ethical being. The psychological basis, the metaphysical implications—personality, freedom, God—and the practical application of theories are carefully studied.

Senior required course. Two hours a week, second half year.

7. *Theism*. The traditional arguments for the theistic world-view are studied so as to show the consequences for the theistic view in the chief philosophic theories, culminating in the grounds for the theistic view in present-day thought. The student is shown how to hold the theistic view in the world in which he lives.

Senior required course. Three hours a week, third term.

A standard text is used as a basis in each of the above courses. The class-room work consists of lecture, discussion and recitation. Essays on assigned topics are required.

1-7 Professor SANDERS.

8. *Christian Evidence*. Bruce's Apologetics. While opposing theories are duly considered, the argument for Christianity from Miracles is accepted and defended. This argument is supported by others derived from various sources, such as the fulfillment of Prophecy, the adaptedness of Christianity to the needs of human nature, the superiority of Christian Doctrine, and the benevolent fruits of the religion of Christ.

Senior required course. Two hours a week, the first half of the year.

Professor WENTZ.

9. *Aesthetics*. Outline study of the leading periods and the general features of the various fine arts, with discussion of the principal aesthetic problems. Illustrated by photographs and other reproductions. Van Dyke, College Histories of Art. [Omitted in 1909-10].

Professor GRIMM.

MATHEMATICS AND ASTRONOMY.

Professor NIXON and Mr. TROXELL.

1. *Geometry*. Plane (books fourth and fifth), solid and spherical. (Wentworth.)

Freshman required course. Four hours a week the first term and one-third of the second term.

2. *Algebra*. Series; undetermined coefficients; binomial theorem; logarithms; determinants; theory of equations. (Wells.)

Freshman required course. Four hours a week during two-thirds of the second, and one-half of the third term.

3. *Trigonometry*. Trigonometric functions; right triangle; isosceles triangle; regular polygon; goniometry. (Murray.)

Elective for Seniors. One hour a week throughout the year.

Freshman required course. Four hours a week, the last half of the third term.

4. *Trigonometry*. Oblique triangle; right spherical triangle; oblique spherical triangle; application of spherical trigonometry to the solution of astronomical and other problems. (Murray.)

Sophomore required course. Three hours a week, the first term.

5. *Plane Analytic Geometry*. Rectilinear, oblique and polar systems; relation between the rectilinear and polar systems; equations of the straight line; properties of rectilinear figures; circle; ellipse; hyperbola; tangents and normals; loci of the first and second order; higher plane loci; transcendental curves. (Smith and Gale.)

Sophomore required course. Three hours a week during the second term and two-thirds of the third term.

6. *Surveying*. Practical use of instruments—compass, transit and level; plotting; computing areas; making profiles. (Wentworth.)

Sophomore required course. Three hours a week the last third of the third term.

7. *Mechanical Drawing*. Geometrical construction; transcendental curves; section of the cone showing the ellipse, hyperbola and parabola; cylinders penetrating each other and the development of the same; isometric projections of solids; perspective.

Sophomore (Scientific) required course. One period a week during the year.

8. *Field Work in Surveying*. Use of the transit and level; rectangular surveying and use of transverse tables; triangulations; laying out curves; avoiding obstructions; leveling and setting grade stakes. (Carhart.)

Junior (Scientific) required course. Two hours a week during the first term and one-half of the third term.

9. *Mechanics*. (Statics). Composition and resolution of forces; parallel forces; equilibrium of a rigid body acted on by three forces in a plane; center of gravity; machines; work. (Loney.)

Junior (Scientific) required course. Two hours a week during the second term and half of the third term.

10. *Differential Calculus*. Differentiating; expansion of series; maxima and minima; indeterminate forms; tangents and normals; asymptotes and singular points; theory of envelopes; radius of curvature; evolutes and involutes. (Granville.)

Junior and elective course. Three hours a week, the first term.

11. *Integral Calculus*. Integration; definite integrals; successive integration; rectification of curves; quadrature of plane figures; cubature of volumes. (Granville.)

Junior elective course. Three hours a week, second term.

12. *Calculus*. Special topics.

Junior elective course. Three hours a week, third term.

13. *Elements of Projective Geometry*. (Cremona).

Junior elective course. Three hours a week during the second half year.

14. *Astronomy*. The subject as treated by Young; different authors reviewed by members of the class. The students of this course have access to the Observatory, which is equipped with a chronometer, sextant, transit and equatorial.

Senior required course. Three hours a week during the first and second terms.

15. *Practical Astronomy*. The instruments used, besides the time-pieces, are the sextant, transit and equatorial. Determination of time, latitude and longitude; measurements of the diameters of planets and the distances of their satellites; measurements of the heights of mountains on the moon; measurements of double stars; calculation of eclipses; calculation of sunrise and sunset.

Senior elective course. One hour a week during the year.

16. *Mathematics*. Analytical Geometry of three dimensions. (Smith.) Differential equations. (Murray.) Mechanics, Projective Geometry. (Cremona).

Senior elective course. Three hours a week during the year.

GREEK.

PROFESSORS KLINGER and WENTZ.

1. THE ORATORS. *Antiphon*, *Lysias* and *Isaëus*. Representative selections are read and compared with distinct reference to the development of prose style. The abundant allusions in them to early Athenian life are made the basis for studies in Greek antiquities of the historic period. Blackboard drill in forms, the explanation of case, mood and tense uses and the study of words are features of the recitation. Lectures on the condition under which prose-writing originated and developed are given at stated periods. Prose composition, based on the text, twice each week.

Freshman (Classical) required course. Three hours a week, first and second terms.

2. THE HISTORIANS. *Thucydides*. Selections from the Peloponnesian War. The study of the text continues the syntactical analysis, the drill in forms and the study of words in accordance with the principles of word-formation. Special attention is given to the subject matter, and the stirring times preceding the overthrow of the Athenian supremacy are depicted. Prose composition as before.

Freshman (Classical) required course. Three hours a week, third term.

Herodotus. Portions of the Persian War are read rapidly with particular attention to the subject matter. The importance of the period calls for a review of history, and readings are assigned in Grote and other historians to be reported on by the students. The course comprehends lectures on the Greek dialects and advanced studies in the history of case, mood and tense development. Prose composition as before.

Sophomore (Classical) required course. Three hours a week, first term.

3. EPIC POETRY. *Homer*. The *Iliad* (Full text required). The study of the text is preceded by a course of dictated lectures which aim at setting forth the Homeric question in its latest phase. The *Iliad* is then interpreted as a piece of literature in harmony with the conclusion of the latest Homeric scholars. Special study is made of the epithets, and by frequent word-reviews from the blackboard an attempt is made to fix the vocabulary. Each student is required with the aid of Gehring's Index to develop one or more subjects in Homeric antiquities.

Sophomore (Classical) required course. Three hours a week, second and third terms.

4. THE ATTIC DRAMA. *Aeschylus* and *Sophocles*. The entire Junior year is devoted to the study of the Attic Drama. The course contemplates by means of lectures and assigned readings a complete survey of ancient Tragedy and Comedy in their origin and development, and their relation to the modern stage. Lectures on the Greek Theatre precede the study of the text.

Junior (Classical) required course. Two hours a week for two terms.

Euripides or *Aristophanes*. The students are permitted to choose between these authors.

Junior elective course. Two hours a week, third term.

5. *Demosthenes*. *De Corona*. The study includes the age. The decadence of the Hellenic spirit, as shown in civic life, literature, and art, is traced with the class. The course is intended to include, as far as possible, a survey of Greek civilization.

Senior elective course. Two hours a week during one term.

6. *Plato* and *Pre-Socratic Thought*. The Protagoras and the Phædo are the texts studied. The leading doctrines of Plato are analyzed and their relation to modern thought is pointed out. A parallel course of lectures in Pre-Socratic Thought, based on the fragments found in Ritter & Preller's *Historia*, is given.

Senior elective course. Two hours a week, during second term.

7. *The Lyric Poets*. Tyler's "Selections." The course comprehends, along with the interpretation of the poems, the origin and development of lyric poetry and its relation to Greek literature in general.

Senior elective course. Two hours a week, third term.

8. *Hellenistic Greek*. See Biblical Department.

LATIN.

Professor BIKLE.

Allen and Greenough's Latin Grammar and Harper's Latin Dictionary are recommended. The Roman method of pronunciation is used.

1. *Livy*. Selections from Book I, and the Hannibalian War in Books XXI and XXII. Special attention is given to syntax and Livy's peculiarities of style. Roman History down to 200 B. C. is studied with care.

Freshman required course. Three times a week during the first term.

2. *Horace*. Odes, including a critical interpretation, and with special attention to Latin Prosody and the mythological and historical allusions in the text. Berens' Hand-book of Mythology is recommended.

Freshman required course. Three hours a week, second term.

During one or more terms of the Freshman year in connection with the reading of the Latin text, there will be drill in Latin Prose Composition, embracing a rapid review of Latin syntax, with oral and written practice in the principles involved.

3. *Cicero*. De Senectute, or De Amicitia. Drill in syntax, especially of the Latin subjunctive mode. Training, also, in reading Latin with expression.

Freshman required course. Three hours a week, third term.

4. *Tacitus*. Annals or Agricola. A study of the history of the times along with the reading of the text.

Sophomore required course. Three hours a week, first term.

5. *Horace*. Satires and Ars Poetica. After reading some selected satires, the Ars Poetica is read and each student is required to prepare in writing an analysis of the poem.

Sophomore required course. Three hours a week, second term.

6. *Cicero* and *Pliny*. Letters, with numerous exercises in sight reading.

Sophomore required course. Three hours a week, third term.

7. *Quintilian*. Tenth Book. With summary and classification of the Greek and Roman authors. Informal lectures on Roman literature.

Junior (Classical) required course. Two hours a week, first term.

8. *Juvenal*. Satires. With full explanations, and study of the private and social life of the Romans, followed by a short course in Roman Antiquities.

Junior (Classical) course, required the second term, elective the third. Two hours a week, both terms.

9. *Terence or Plautus*. The *Andria* of Terence or *Captivi* of Plautus. The *Dramatis Personae* are assigned to special members of the class and the parts rendered both in Latin and in English.

Senior elective course. Two hours a week, third term.

10. *Latin Literature*. A course of lectures embracing a general survey of the whole field, and aiming to trace the rise and subsequent development of the various kinds of prose and verse among the Romans, and to portray the several periods of the literature in the light of the changing conditions under which the development took place; or

Roman History. A course of lectures covering the period from 200 B. C. to 200 A. D.

Senior elective course. Two hours a week for eight weeks, second term.

ENGLISH.

Professor HIMES and Mr. LEWARS.

1. *Rhetoric*. A study of the subject with the aid of a text-book. The aim of the course is (1) to acquaint the student with the principles of good writing, and (2) to lead to an appreciation of good literature. A course in composition is conducted in connection with this subject.

Freshman required course. One hour a week throughout the year.

2. *Composition*. Weekly themes on assigned subjects corrected and commented on by the instructor, in personal consultation with the student.

Freshman required course throughout the year.

3. *History of American Literature*. A study of the subject with the aid of a text-book. Quizzes, collateral reading, papers.

Sophomore required course. Three hours a week, first half of the year.

4. *History of English Literature*. The text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore required course. Three hours a week, last half of the year.

5. *Composition.* Weekly themes on assigned subjects. Advanced work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore required course throughout the year.

6. *Elocution.* A course of lectures on the subject. Vocal exercises, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore required course. One hour a week throughout the year.

7. *Nineteenth Century Novelists.* A study of the development and structure of the novel. Lectures, collateral reading, papers.

Junior elective course. Two hours a week, third term.

1-7 Mr. LEWARS.

8. *Shakespeare.* Six plays are studied, the principal characters are analyzed and the most important and suggestive passages are read and interpreted before the class. The writing of dialogue is practiced.

Junior required course. Two hours a week, first term.

9. *Milton.* Five books of the *Paradise Lost* are studied; the views of many commentators are examined and compared; Milton's conception of the material and spiritual universe is set forth and elucidated.

Junior required course. Two hours a week, second term.

10. *Anglo-Saxon.* The translation of easy prose is begun at the second or third recitation in this subject and sight reading is undertaken after four or five weeks. About five hundred lines of the poetry of *Beowulf* or *Cædmon* and other writings are read in the latter half of the term. Comparative Philology receives considerable attention in connection with this subject.

Junior elective course. Three hours a week, first term.

11. *Nineteenth Century Poets.* The course begins with a more extended examination of Tennyson's poetry then deals with selected poems of Wordsworth, Coleridge, Byron, Shelley, Keats, Browning, Matthew Arnold, D. G. Rossetti, and Swinburne.

Junior elective course. Three hours a week for twelve weeks, second term.

12. *Writing and Speaking.* The preparation of declamations, essays, orations and debates is continued from the beginning of the Junior onward to the end of the Senior year. Subjects assigned are sometimes suggested by miscellaneous matters of interest, and sometimes by topics found in the text-books studied. To secure greater

carefulness on the part of the student, the written work is commonly read privately and criticised by the instructor.

8-12 Professor HIMES.

FRENCH.

Professor GRIMM.

1. *Elementary French.* Fraser and Squair's French Grammar, Part I, with exercises and drill on pronunciation and idioms, is completed during the first two terms. The third term is devoted to rapid sight reading, to composition with syntactical references, and to translations from Aldrich and Foster's French Reader, with special attention to the more common irregular verbs.

Scientific Freshman required course. Two hours a week throughout the year, elective for Classical Freshmen.

2. *Irregular Verbs, Syntax, Prose Composition, Prose Reading, Easy Dramatic Poetry.* Fraser and Squair; French Grammar; Ma-lot, Sans Famille; Labiche, La Grammaire; Erckmann-Chatrion, Histoire 'd un Paysan; or their equivalents.

Elective. Two hours a week, throughout the year.

3. *Drama, Conversation.* Corneille, Le Cid; Racine, Athalie; Beaumarchais, Barbier de Seville; Voltaire, Zaire; Hugo, Hernani; or their equivalents. Private reading required.

Elective. Three hours a week, throughout the year.

GERMAN.

President HEFELBOWER and Professor GRIMM.

1. *Elementary German.* Vos, Essentials of German; Wenckebach-Mueller, Glueck Auf; Seidel, Aus goldenen Tagen; or their equivalents. Easy conversation, based on the texts read.

Elective for Freshmen of the Classical Course, required of all Sophomores who did not absolve the course during the Freshman year. Two hours a week throughout the year.

2. *Syntax, Prose Composition, Conversation, Prose Readings, Easy Dramatic Poetry, Lyrics and Ballads.* Thomas, Practical German Grammar; Seidel, Erzaehlungen; Moser, Der Bibliothekar; Hatfield, Lyrics and Ballads; or their equivalents. Vos, Materials for German Conversation. Private reading is required.

Junior required course; elective for Sophomores who have absolved Course 1. Two hours a week throughout the year.

3. *Epic Poetry, Classical Drama, Advanced Composition.* Goethe, Hermann und Dorothea; Schiller, William Tell; or their equivalents. Pope, German Composition.

Elective for all students who have absolved Course 2. Two hours a week throughout the year.

4. *Classical Drama, History of the German Language and Literature.* Lessing, Nathan der Weise, or equivalents. Lectures, supplemented by readings from representative authors. Advanced Composition and Conversation on the basis of Pope, German Composition, and Kron, German Daily Life. Private reading is required.

Senior elective course. Two hours a week throughout the year.

Opportunity for more extended German conversation and discussions referring to German life, literature and culture is given to Juniors and Seniors in a voluntary Deutscher Verein.

5. *General Comparative Philology and Ethnology.* A lecture course dealing with the elements of the Science of Language and with the linguistic Ethnology of the Indo-Germanic and Semitic peoples. The divisions, inter-relations, common characteristics, and original home of the Indo-Germanic and Semitic peoples respectively are pointed out and discussed, and the languages and literatures of the individual peoples of the two families are sketched, special attention being given to the Germanic group.

Elective for Seniors. One hour a week throughout the year.

HISTORY, POLITICAL SCIENCE AND LAW.

Professors HIMES, BIKLE, HEFELBOWER and WENTZ and Messrs. BIKLE and HUTTON.

1. *European History.* Harding's Essentials and Myers' Mediaeval and Modern History are the text-books recommended. Collateral reading on suggested and assigned topics is pursued in connection with preparation for the recitation and students are encouraged to investigate, as much as possible, the facts set forth in the texts.

Freshman required course. Two hours a week throughout the year.

President HEFELBOWER.

2. *American Political History* on the basis of Johnston's American Politics with comments and suggestions for collateral reading.

Junior required course. Two hours a week, third term.

3. *Political Economy.* Seager's Economics (Briefer Course). The theories of the text-book are brought, as often as possible, to the test of the student's personal observation and the true nature of the science is thus impressed. Problems for investigation are assigned to the members of the class, with direction to inquire into actual industrial and social conditions and operations.

Senior required course. Three hours a week for twelve weeks of the first term.

4. *Lectures on Money and Banking.* Theories of money and credit are examined in connection with a rapid survey of the monetary history of the United States. Particular attention is given to present conditions and tendencies. [Omitted in 1909-10].

Senior required course. Ten or twelve hours.

5. *International Law.* Lawrence's *International Law*. Occasional lectures on special topics, such as the prominent features in American diplomacy.

Senior required course. Three hours a week for the last twenty weeks of the year.

6. *Science of Government.* Bryce's *American Commonwealth* is used as a text-book. Free criticism of the author's views is encouraged; National and State Constitutions are examined. The annual Presidential Message is studied and discussed.

Senior elective course. One hour a week throughout the year.

2-6 Professor HIMES.

7. *Roman Law.* Morey's *Outlines*. After a careful study of the text-book, an essay is required from each member of the class on a subject assigned for special investigation.

Senior elective. Two hours a week during the first term.

Professor BIKLE.

8. *Modern European History.*

Senior and Junior elective course. Three hours a week throughout the year.

During the first and second terms two hours a week are given to the Period of the Reformation, 1517-1648. Text-book: Fisher's "The Reformation," revised edition of 1906. During the third term, two hours a week, the history of the nineteenth century is studied. Text-book: Seignobos' "Political History of Europe."

Throughout the year, one hour a week is given to the study of historical method and philosophy of history. This course embraces search for documents, "auxiliary sciences," textual criticism, critical investigation of authorship, classification of sources, interpretative criticism, grouping of facts, constructive reasoning, exposition. Text-books: Langlois & Seignobos' "Introduction to the Study of History," and Bernheim, "Einleitung in die Geschichtswissenschaft." The texts for criticism are in Latin, being selected from "Monumenta Germaniae historica."

The Juniors who by reason of conflicting hours cannot complete this course in the third term, may, as Seniors, complete it in the third term, the year following.

The Seniors may pursue the entire course without interruption.

Professor WENTZ.

9. *Constitutional Law*. Four lectures on the Constitution of the United States, including a discussion of the American Doctrine of Constitutional Law, and a consideration of the commerce clause, of the clause forbidding the impairment by the States of the obligation of contracts, and of the guaranties of personal liberty and equality contained in the Fourteenth Amendment.

Senior course, third term.

Mr. H. W. BIKLE.

10. *Talks on Law*. Six lectures on domestic relations, decedents' estates, insurance and commercial law and finally those phases of the law with which every citizen sooner or later in life has some experience.

Senior course, third term.

Mr. A. J. W. HUTTON.

CHEMISTRY.

Professor BREIDENBAUGH, Mr. STOVER and Mr. DICKSON.

1. *Elementary Inorganic Chemistry*. Lectures, laboratory work, quizzes and examinations. The student is expected, in addition to the outline of work provided, to have some approved reference book on Chemistry. This course covers the general principles of Chemistry with a study of the elements and their compounds. A practical review is given at the end of the year, determining compounds by their properties.

Junior (Classical) required course. Three periods a week throughout the year.

2. *Elementary Inorganic Chemistry*. Lectures, laboratory work and quizzes.

Freshman (Scientific) required course. Three periods a week throughout the year, as in course 1.

3. *Qualitative Analysis*. Lectures and quizzes on reactions and methods accompanying the laboratory work, with close personal supervision.

Required (Scientific) course. Two periods a week throughout the Sophomore and five periods the first term of Junior.

4. *Quantitative Analysis*. The first term is occupied with determinations of definite compounds, the second with mineral analysis.

Junior (Scientific) required course. Five periods a week during the second and third terms.

5. *Organic Chemistry*. Lectures, text-book work and quizzes illustrated in the laboratory.

Senior (Scientific) elective course. Three periods a week during the first and second terms. Also open as an elective to Seniors in the Classical course.

6. *Qualitative Analysis*. Similar to course 3.

Senior (Classical) elective course. Two to four periods a week throughout the year.

7. *Special Analytical Methods*. Water, milk, sugar, minerals, rocks, etc.

Senior (Scientific) elective course. Two to four periods a week throughout the year.

GEOLOGY AND MINERALOGY.

PROFESSOR BREIDENBAUGH.

1. *Geology*. Lectures, with reading references, principally to the works of Dana and Le Conte, accompanied by quizzes and topical examinations. Each student is required to write at least one paper illustrating, from his own observations, the principles of inorganic Geology.

Senior required course. Three hours a week during the second and third terms.

2. *Mineralogy*. The crystal form and physical properties of minerals are studied by means of the mineralogical collection. Afterwards each student is required to determine at least one hundred minerals by their blowpipe characteristics. This is followed by a brief course in Lithology and topographical Geology.

Senior elective course. Two periods a week throughout the year.

PHYSICS.

PROFESSOR PARSONS and Mr. WEAVER.

a. Elements of Physics. Mechanics, Properties of Matter and Heat. This course includes three hours of lecture and class work and a minimum of three hours of laboratory work per week throughout the third term.

Required of all students in the Junior year (third term), excepting those taking Physics 1.

b. Elements of Physics. A continuation of Physics *a*. Sound, Light and Electricity. Three hours of lecture and class work and a minimum of three hours of laboratory work throughout the first term.

Required of all students in the Senior year, excepting those who have taken Physics 1.

c. Elements of Physics. A special elective course given as a continuation of courses *a.* and *b.* to students in the Senior class who have not taken Physics 1, and who are preparing for courses in Medicine. One lecture and two to six hours laboratory work per week during the winter and spring terms. (When it is possible for students preparing for Medicine to take course 1, course *c.* will not be offered).

1. *General Physics.* A complete course in the Principles of Physics, comprising Mechanics, Properties of Matter, Heat, Sound, Light, and Electricity; the instruction being carried on by illustrated lectures, recitations, and laboratory work. Three hours of class work and a minimum of three hours of laboratory work throughout the year.

General elective course, open primarily to those in the Junior class.

2. *Theoretical Physics.* An advanced course in Mathematical Physics, including the Principles of Mechanics, Vibratory and Wave Motion, Electricity and Light, given by lectures, illustrated by experiments and accompanied by recitations from Watson's Text-book of Physics. Three hours a week throughout the year.

Elective, open to students having taken Physics 1, or with a sufficient preparation in Mathematics and Elementary Physics.

3. *Advanced Laboratory Physics.* A course in laboratory experiments open as an elective to those students who have finished the laboratory work of Physics 1, or its equivalent. Three to six hours a week throughout the year.

4. *Mechanics.* Principles of Kinematics, Statics and Dynamics. Two lectures per week with class exercises and problems. Elective for students having completed Physics *a.* and *b.*, or two terms of Physics 1. (May be taken as part of the required work in Physics by students who elected Physics 1.) Given in the same terms as courses *a.* and *b.*, or as announcement shall be made.

5. *Electrical Measurements and Machinery.* Lectures and laboratory work on practical electrical measurements and testing of simple electrical machines. Two or three periods for one-half year. Elective for students who have taken, or are taking, Physics 2.

6. *Physical Optics.* An advanced course in the theory of light, consisting of three lectures per week for one-half year. Elective for students who have taken, or are taking, Physics 2, and have had calculus.

BIOLOGY.

PROFESSOR STABLEY.

The biological branches included in this course are given as electives during the Junior and Senior years. The Junior work is a *general culture course*, and is calculated to give the student a general understanding of current biological questions; it is offered to both Seniors and Juniors at the same time. The regular Senior work is more medical in cast, and in conjunction with the Junior work, provides an admirable preliminary preparation for the study of Medicine.

The work is carried on by lectures, demonstrations, dissections, drawings, quizzes and frequent written examinations. There are two well-lighted laboratories, provided with all needed instruments and apparatus, such as microscopes, microtomes, paraffine bath, incubator, etc. The branches are pursued in the following order:

JUNIOR YEAR.

1. *General Biology*. Three periods a week for ten weeks. This branch acquaints the student with microscopic technique and general laboratory methods, whilst he studies selected types of plants and animals, taken from the lower forms of life, as these are best adapted to demonstrate essential characteristics. The purpose is to ascertain fundamental facts of structure and life processes, with the significant relationships in the two great kingdoms of organic nature.

2. *Invertebrate Zoology*. Three periods a week for eight weeks. Representative types in this great group of animals are dissected. The basal plans in organization, with the varying modifications in form and function, are made subjects of practical study.

3. *Vertebrate Zoology*. Three periods a week for eight weeks, followed by two periods a week for ten weeks.

Fundamental vertebrate features of structure and function are carefully considered, whilst dissecting type forms, beginning with the lowest vertebrates known, and proceeding through the various classes, culminating with the Mammals; the latter class claiming special attention. Questions relating to comparative morphology and physiology of vertebrate animals are freely discussed.

SENIOR YEAR.

4. *Human Anatomy and Physiology*. Three periods a week for nineteen weeks.

Special attention is given to osteology, joints, ligaments and muscles. Tramond's preparations, consisting of real bony joints, with accurately placed artificial ligaments, and Azou's dissectable manikin, provide ample facilities for this part of the work. In this, as in all the branches of the course, physiological processes are constantly discussed.

5. *Mammalian Histology*. Three periods a week for eleven weeks.

With the aid of prepared microscopic slides, the student studies the minute anatomy of the different tissues of the body, and their actual relationships in the different organs. He also learns practically how to fix, harden, imbed, section, stain and mount the important tissues; thus acquiring a practical knowledge of histological work.

6. *Embryology*. Three periods a week for six weeks.

The principles of maturation and fertilization of the germ elements are considered. The stages of segmentation are observed in the ova of the Frog and Fish. The development of the Chick is studied. Entire mounts are made, as well as mounts of the serial sections of the incubating egg, from the first hour of incubation to the fifth day, when the organs are practically all formed. This branch constitutes a fitting close to the course, as it exhibits the steps in the development of the individual animal, and also epitomizes the history of the animal kingdom in general.

Botany. Class and field work in Systematic Botany. Each student is required to determine and mount specimens of at least fifty species of Phaenogams.

Sophomore required course. One period a week during the second half of the year.

HYGIENE.

Professor STAILLEY.

1. *Sanitary Science. Lectures*. House, municipal, State and National sanitation in their varied and rapidly developing new features are dwelt upon with the idea of furnishing a comprehensive yet intelligent outline of the subject.

Senior elective course. One hour a week throughout the year.

2. *Physical Culture*. This end is sought under medical guidance in the Gymnasium during the college year from November 1 to April 1. A physical examination of each student is made when he enters college and such kinds of gymnastic exercises are prescribed as seem indicated. The purpose is to encourage the promotion of health and physical vigor as necessary for successful mental application. Since

much harm is often done by injudicious physical exercise, special effort is made to advise those who are suffering from defective bodily conditions how they may be helped by hygienic methods and the selection of forms of exercise particularly suited to their case.

BIBLICAL DEPARTMENT.

Professor WENTZ.

1. *Old Testament History.* The books of Genesis, Exodus, Numbers and Joshua furnish the material to be mastered. In connection with the Scripture text a manual of Biblical geography and history is used.

Freshman required course. One hour a week throughout the year.

2. *Old Testament History.* Jewish history from the death of Joshua to the Division of the Kingdom. The Biblical material is found in Judges, Samuel and Kings; the geographical and historical manual is continued.

Sophomore required course. One hour a week throughout the year.

3. *Biblical Study.* (a) The Life of Christ. (b) One of the Gospels in Greek.

Junior elective course. Four hours a week during the third term.

4. *New Testament Study.* The privilege of selecting the books to be studied is accorded to the class. Acts has been chosen this year.

Senior elective course. One hour weekly throughout the year.

GENERAL COLLEGE ORDERS.

EXAMINATIONS.

Examinations are held at the close of each term, or when a subject is finished. When a student is unavoidably absent from this examination, and his absence is excused by the Faculty, he is examined, at the discretion of the Faculty, either before leaving, or at the opening of the following term before entering his name on the roll of his class.

If a student be absent for some time from the institution, he must, on re-entering, sustain an examination upon the studies to which his class has attained during his absence.

RECORDS.

A careful record of the attendance, scholarship and conduct of each student is kept; a general statement of which record is transmitted to parents or guardians at the close of each term.

DEGREES.

To members of the graduating class in full and regular standing diplomas are granted, conferring in the Classical Course the degree of *Bachelor of Arts*, and in the Scientific Course the degree of *Bachelor of Science*.

The degree of *Master of Arts* and *Master of Science*, according to the previously received Bachelor degree, is conferred, in course, on Bachelors of three or more years' standing, provided that applicants for this degree make application therefor to the Faculty, in writing, at least one week before the annual Commencement.

TERMS AND VACATIONS.

The annual Commencement is held this year on the third Wednesday of June. Regularly the first term begins on the second Thursday of September, and continues fourteen weeks; the second term begins two weeks after the close of the first term, and

continues twelve weeks; the third term begins one week after the close of the second, and continues ten weeks, until the day of the annual Commencement. The intervening periods of approximately two, one and thirteen weeks are devoted to the vacations.

It is highly important for students to be punctual in entering upon their duties at the beginning of the term.

Unexcused absences from recitations are counted as zeros upon the grades.

The attention of parents and guardians is especially called to the fact that absences from recitations, whether at the opening of terms, or at other times, are not excused except for sickness or imperative necessity.

EXPENSES.

The necessary expenses of the collegiate year, exclusive of books, clothing, furniture and traveling expenses, are as follows for each student:

		Low.	Moderate.	Liberal.
Board for 37 weeks,		\$85.00	\$110.00	\$140.00
First term,				
	Tuition,	\$12.00	30.00	30.00
	Gen. Exp.,	18.00		30.00
Second term,				
	Tuition,	9.00	23.00	23.00
	Gen. Exp.,	14.00		23.00
Third term,				
	Tuition,	9.00	22.00	22.00
	Gen. Exp.,	13.00		22.00
Room rent and heat (half room),			12.50	40.00
Washing,			12.00	12.00
Total		\$184.50	\$237.00	\$289.50

Board may be secured at prices varying from \$10.00 a month in clubs to from \$12.00 to \$14.00 in boarding houses. The average price paid this year has been about \$11.50.

A fee of \$1.50 a term for contingent expenses is charged to students not rooming in college buildings.

Students entering in 1910 and thereafter will pay at entrance.

a registration fee of \$5.00. To those having paid this fee the extra graduation fee of the same amount will be remitted.

All members of the Senior class, upon their entrance on the last session of their course of study, pay to the Treasurer, with their college bills, an extra fee of \$5.00 which is refunded in case of failure to graduate.

LABORATORY CHARGES.

Students in the Scientific Course in Chemistry are charged a term fee of \$5.00 for the use of chemicals and general apparatus. Glassware and other apparatus of individual use are supplied at cost prices, each person being charged with each article received, and credited with the same on its return in good condition. The expense for this item in the first outfit has been about \$7.00 after which with proper care, it need not exceed \$1.50 a term. Students in general chemistry pay, for the course, a desk fee of \$10.00 for the use of chemicals and apparatus, and the cost price for all articles broken; this need not exceed \$1.00 a term. The fee for supplies in elective Mineralogy is \$2.50.

A fee of \$4.00 a term is charged in the department of Biology, for the use of material and apparatus.

Students in Physics, taking laboratory work are required to pay a fee of \$3.00 per term and in addition make a deposit of \$2.00 a term to cover breakage or damage to apparatus, etc.

Parents and guardians may intrust funds for students to any member of the Faculty, and the funds will be applied as may be required.

Tuition and other college dues for each term must, in all cases, be paid in advance. No student will be allowed to recite with his class until he has shown the Professor a receipt from the College Treasurer, or a note stating that he has made some satisfactory arrangement with the Treasurer.

ROOMS AND HEATING.

Students are required to lodge in the college dormitories, special cases excepted.

Unless all the available rooms of the college are occupied, there

is no remission of the charge for room rent, except to students whose parents reside in town.

Rooms becoming vacant can be assigned at any time, preference being given according to class, to be occupied after the removal of the former occupant, and, if the person to whom the rooms are assigned so desire, the furniture in them shall be removed.

The charges for room rent and steam heat for the several rooms, given below, are for full use of the room; if two students occupy a room they divide the expenses. The annual charge is given first, and in parenthesis the division of this charge between the first, second and third terms of the collegiate year. E—East Division, M—Middle Division, W—West Division, S—South College.

At \$17.00 (6.00, 7.00, 4.00) : 4, 6 W; 1 M; 8 E.

At \$19.00 (6.50, 7.75, 4.75) : 5, 7 W; 5, 7, 9, E.

At \$21.50 (7.50, 8.75, 5.25) : 1, 3 W; 1, 3 E.

At \$26.75 (9.25, 11.25, 6.25) : 4, 6 E.

At \$27.75 (9.50, 11.00, 7.25) : 2, M.

At \$29.75 (10.25, 12.25, 7.25) : 3, 4, 5 M.

At \$32.00 (10.75, 13.00, 8.25) : 2 W; 36 S.

At \$33.00 (11.25, 13.25, 8.50) : X S.

At \$35.50 (11.75, 14.50, 9.25) : 14, 15, 16, 17, 18, 19, 24, 25, 26, 27, 28, 29, 34, 35, 36, 37, 38, 39 E; 6, 11, 16 M; 12, 13, 14, 15, 20, 21, 22, 23, 28, 29, 30, 31 W.

At \$40.00 (14.00, 16.00, 10.00) : 22, 23, 24, 25, 30, 31, 32, 33 S.

At \$45.00 (15.00, 18.00, 12.00) : 26, 27, 28, 29 S.

At \$45.25 (15.50, 17.75, 12.00) : 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33 E; 8, 9, 10, 11, 16, 17, 18, 19, 24, 25, 26, 27 W.

At \$47.75 (16.75, 19.00, 12.00) : 9 M.

At \$50.00 (17.00, 20.00, 13.00) : 20, 21, 34, 35 S.

At \$56.50 (20.25, 22.00, 14.25) : 8, 10, 12, 14, 18, 20 M.

At \$75.00 (26.00, 30.00, 19.00) : 17 and 19 M; 21 and 22 M.

—Suites of two: also 1, 2, 3, 4, 5, 6, 7, 8 S.

At \$90.00 (32.00, 36.00, 22.00) : 10 and 12, 11 and 13, 15 and 17, 16 and 18, S—suites of two.

At \$125.00 (43.00, 50.00, 32.00) : 9, 19 S—suites of three.

Rooms 3, 4, 5, 8, 10, 12, 14, 18 and 20 M include a large study and a good-sized bed-room. Even numbers, except 22, are on the north side of the building.

EQUIPMENT.

MUSEUM.

The museum contains varied collections of fauna and flora and minerals, all of which are freely used in instruction. The Mineralogical Cabinet contains over 6,000 specimens, including not only very full suites of the more common and more important minerals but also good specimens of many of the rarer minerals. The collection in Lithology numbering 3,000 specimens and of iron in Metallurgy, have, by recent additions, become fairly representative in the most important departments of these sciences. The Botanical Collection of 6,000 specimens, mainly presented by Miss Elizabeth C. Morris, of Germantown, Pa., is well arranged and contains a full representation of American Flora. A beginning has been made of a Chemical Museum—to contain specimens of raw and manufactured materials in chemical industries. Friends of our Institution can greatly aid us by additions to these collections.

LITERARY SOCIETIES.

Two literary societies are connected with the College, the Phrenakosmian and the Philomathæan. These exert a favorable influence in the intellectual and social culture of their members. The exercises consist of music, essays, orations and debates. The practical acquaintance with the parliamentary law here formed makes these societies the best schools for free citizenship. The halls occupy two wings on the third story of the Recitation Hall, and are conveniently and handsomely furnished. Their sessions are held every Friday evening.

A reading room, managed by these societies and the Y. M. C. A., contains a great variety of periodical literature.

LIBRARIES.

The College Library, to which all students have access without charge, contains many works of reference. During term time.

the Library is open for consultation and the drawing of books four hours each week day, except on Saturday, when it is open for two hours.

The income of a fund invested for the purpose provides for frequent additions of the best publications.

The Libraries of the Literary Societies comprise a large number of well selected and standard volumes, which are annually increased through the income of separate funds.

These libraries are accessible to the members of the societies under their respective regulations, and are open for the issue of books on Wednesday at 4 P. M. and Saturday at 10 A. M. during term time. They are in the same hall with the College Library. In addition to several thousand partly classified but unbound pamphlets

The College Library contains	17,200 volumes
The Philomathæan Library contains	6,827 volumes
The Phrenakosmian Library contains	6,025 volumes
	<hr/>
Total	30,052 volumes

SCHOLARSHIPS.

A number of permanent scholarships, securing free tuition, have been endowed and are under the control of synods, congregations, or individuals. C. W. Thompson, Esq., of Lancaster, established a scholarship for the purpose of giving the benefit of a collegiate education to the most successful and indigent pupil who shall have passed through the prescribed course in the High School of Gettysburg.

PRIZES.

MUHLENBERG FRESHMAN PRIZE.—The interest of a fund of five hundred dollars, contributed by Prof. F. A. Muhlenberg, D.D., LL.D., is given at the close of the year to that member of the Freshman class who, upon examination, is found to have attained the highest degree of scholarship in the studies of the Classical course.

BAUM MATHEMATICAL PRIZE.—Charles Baum, M.D., Ph.D.,

class of 1874, of Philadelphia, has contributed five hundred dollars, the income from which is to be given annually to that member of the Sophomore class who shows the greatest proficiency in Mathematics.

HASSLER LATIN PRIZE.—Mr. Charles W. Hassler furnished a fund, the interest of which is annually expended for the purchase of a Gold Medal, to be presented to the student of the Junior class, who, at the end of the year, shall be the best Latin scholar.

REDDIG ORATORICAL PRIZE.—Mr. Clarence Jacob Reddig, class of 1877, of Shippensburg, contributes annually the sum of twenty-five dollars as an Oratorical Prize, to be contended for in public by the Junior class, on Tuesday of Commencement Week.

GRAEFF PRIZE.—This prize was founded by Mr. John E. Graeff, class of 1843. The sum of thirty dollars is awarded for the best English Essay from the Senior class, on a subject previously assigned. The decision is made by a committee appointed by the Professor of English Literature.

PRIZES IN DEBATE.—The Literary Societies of the College provide three prizes of \$36, \$24 and \$15, respectively, for the encouragement of skill in debating. The first contest takes place about the middle of November between teams chosen by the Sophomore and Freshman classes, respectively, and the winning team is rewarded with \$15. The second contest, between the winning team and a team from the Junior class, takes place about the middle of March, with \$24 to the winners. The third contest, between the second victors and a team from the Senior class takes place about the middle of May, with a reward of \$36 to the winners. Winners of the first prize are excluded from further competition.

PITTSBURG PRIZE IN CHEMISTRY.—The Pittsburg-Gettysburg Club have established a prize of \$25, to be given to the student who does the best work in Chemistry during the Junior year of the Scientific course.

BLOOMHARDT MERCURY PRIZES.—Dr. Fred. H. Bloomhardt, class of 1894, of Altoona, Pa., offers \$25 annually to be devoted in prizes to the encouragement of writing for *The Mercury*, the College literary journal.

Students in special courses are not admitted to competition for any of the foregoing prizes.

BUILDINGS.

PENNSYLVANIA HALL, erected in 1856-58, was remodeled and improved in 1889. It contains eighty-six rooms for students, many of them *en suite*, so that those who may wish to do so can have separate study and sleeping rooms. In this building are the reading rooms of the Literary Societies and the large room used by the College Y. M. C. A. These rooms are heated by steam, and water pipes and lavatories connected with the town system of water works are on the first floor.

SOUTH COLLEGE, erected in 1897, is a building of three stories containing rooms for about fifty students. It is finished entirely in hard wood, is heated with steam, has hot and cold water on each floor and lavatories in convenient places. The first floor has eight rooms, each with open fire place, tile hearth and spacious closets. These rooms may be used by one or two occupants, as preferred. On the second floor all rooms are *en suite*, each suite consisting of a study with one bed-room or two. These are also provided with hearths, closets, etc. The third floor is divided into sixteen single rooms.

THE RECITATION HALL, erected in 1888-89, is used for general college purposes. On the first floor are the library room and office, the President's office, the reception room, and recitation rooms. The second floor has recitation rooms. The third floor has in the front center a large museum room with valuable collections. In the rear center are a mineralogical laboratory and additional recitation rooms. In the north wing is the hall of the Philomathæan Society, in the south wing the hall of the Phrenakosmian Society. In the basement is the laboratory of

the Department of Physics which, with the recitation rooms above it, has been fitted up and partially equipped with a fairly extensive selection of high-grade apparatus. The laboratory is supplied with water, gas and electric power, both the alternating current and direct current from dynamos and storage cells.

THE BRUA MEMORIAL CHAPEL, erected in 1889-90, is the gift of the late Col. John P. Brua, U. S. A., as a memorial to his parents. This building is used for morning prayers, for Commencement exercises, lectures and other occasions requiring a large audience room.

THE CHEMICAL LABORATORY is a frame building, erected in 1872 and in 1890 converted to its present use. It contains on one floor a large lecture room, an office, store-rooms, chemical-room, balance-room, and two laboratories—one for general chemistry, with desk room for forty-eight students, the other for analytical chemistry, with desk room for forty-eight students. The building is fitted with the most approved appliances; gas and water at each desk; there are ample hoods, a water-distilling apparatus and large sand bath, and other necessary apparatus. The balance-room contains balances set on walls especially built for them. In the basement are an assay-room and a store-room.

THE ASTRONOMICAL OBSERVATORY, erected in 1875, is furnished with an achromatic telescope, having an object glass of six and one-half inches, with a transit instrument, chronometer and other appliances.

THE GYMNASIUM has on the first floor ample dressing rooms and bathing facilities, and a baseball cage. On the second, or main floor, a class of sixty members can be accommodated for gymnastic drill. The selection of specialized apparatus in light and heavy gymnastics is varied and complete. The Professor's office where all the physical tests and measurements are taken, is also on this floor, and is furnished with a full set of anthropometric apparatus.

On the gallery there is a first-class "Roberts' patent" running track with seating accommodation for visitors.

The gymnasium is open at stated times every afternoon and evening and Saturday all day, aggregating twenty-four hours each week, apportioned between regular class practice and general practice.

Athletic sports are encouraged, but under such regulations, as it is believed, prevent them from becoming a source of demoralization to the students, or interfering with the legitimate work of the Institution. A student who has not first secured the permission of his parents is not allowed to engage in any public contest.

ATHLETIC FIELD. Immediately north of the college buildings is the athletic field, which is carefully graded and securely inclosed and covers an area of over four acres. It affords room and facilities for all kinds of out-door sports.

THE BOILER HOUSE supplies the steam required for heating all the college buildings, and has capacity for more.

Besides these buildings there are on the campus the President's house, a double house for professors, and four halls erected by Greek Letter Societies.

GENERAL ALUMNI ASSOCIATION.

The Alumni Association of Pennsylvania College holds its regular annual meeting Wednesday afternoon of Commencement week. In 1876 the Board of Trustees granted the Association the privilege of nominating six of their number to membership in the Board, to fill alternate vacancies till the whole number is secured.

The officers of the association are: President, Charles S. Duncan, Esq., class of '82; Vice Presidents, Charles J. Fite, '98; Prof. Charles H. Huber, '92; Hiram H. Keller, Esq., '01; Secretary, Clyde B. Stover, '94; Treasurer, H. C. Picking, '79.

COLLEGE PERIODICALS.

The *College Mercury*, published monthly in term time under the control of the Literary Societies, is a literary journal sustained by the contributions of students and alumni. *The Gettysburgian*, under the private control of students, is published weekly and makes a specialty of college and town news. *The Spectrum*, an annual publication of the Junior class, contains pictorial representations of the College with its various organizations and surroundings as well as useful statistics about students and alumni. All aim at enlarging the means of communication between the College and its graduates, former students and friends. These enterprises are cordially commended to the patronage of those interested in the welfare of the Institution.

TEACHERS.

The attention of School-boards and others desiring teachers is called to the fact that it is frequently in the power of the Faculty to recommend suitable persons. Many graduates fill successfully important positions in public and private institutions.

FORM OF BEQUEST.

I give, bequeath and devise to "The Trustees of Pennsylvania College, of Gettysburg, in the County of Adams," in the State of Pennsylvania, and their successors and assigns forever, the sum of ————— (or shares in the bank of —————, or any other personal property or real estate, as the case may be), to be applied to the Endowment Fund of the Institution.

✎ *A bequest to a benevolent corporation, to be legal, must be made at least 30 days before the death of the Testator, in Pennsylvania, and 60 days in New York.*

PREPARATORY DEPARTMENT.

AIM OF THE DEPARTMENT.

Stevens Hall is located within two minutes' walk from Pennsylvania College. The object of its foundation, which the school has steadily kept in view, was to present to the public **AN ACADEMY UNDER THE CONTROL OF COLLEGE AUTHORITIES.** The advantages of such a combination are obvious. To students who desire to prepare for college it offers a course of preparatory instruction under the eyes of their future professors and in the line of the college requirements. The school, being open at all times to visits from instructors in the College, and receiving from time to time their counsel, is able to give to those students who desire it just that preparatory study and drill which will lead to the most profitable and creditable work in the college classes. Time is concentrated upon the studies in which it is needed, and **STUDENTS WHO HAVE SATISFIED THE REQUIREMENTS IN THE PREPARATORY DEPARTMENT ARE ADMITTED TO THE FRESHMAN CLASS OF THE COLLEGE UPON THE PRINCIPAL'S RECOMMENDATION WITHOUT FURTHER EXAMINATION.** On the other hand, students who do not expect to enter College, and who desire only an English education, preparatory to business, teaching, etc., may find in this school an academy of high grade under the supervision of college professors in a college atmosphere, and with free access to the college libraries. Near association with a college is a stimulus to study, and often awakens a desire for a higher education.

GOVERNMENT.

The Preparatory Department, though under the control of the College authorities, has a separate building of its own and is under the special direction of a Principal who gives to it his whole time in the work of instruction and supervision. He is aided by three assistants.

The school seeks to develop intelligent Christian gentlemen. The discipline aims at making the pupil SELF-GOVERNING, and at leading him to habits of self-respect and self-control by training the judgment, quickening the conscience, and cultivating a delicate sense of honor.

When it is evident that a pupil has no proper appreciation of his opportunities, and is harming the school rather than receiving benefit from it, his parents are asked to remove him.

During study hours students are expected to be in their rooms, which are subject to frequent visits by instructors.

ADMISSION.

Students are admitted at any time to the grade for which they have been qualified by previous study. But it is highly important that the student enter the school as early in the course as possible. With the present requirements for admission, a hurried preparation is generally unwise and tends to embarrass the student's future progress, especially in Latin and Greek. Accurate, technical scholarship, at which the school aims, can hardly be secured without long drill, especially in the languages. Without intending at all to discourage those whose circumstances, rather than their desire, lead them to attempt short preparation, all who can are urged TO LAY THE FOUNDATION CAREFULLY. An additional year of time at the beginning is always a gain in the ease and success with which future work is done. The fact, however, is recognized that students differ widely in ability and industry, and every opportunity is afforded those who can do so to cover the required work in a shorter time.

No examinations are required for admission, the pupil being at once assigned to the class for which his previous studies seem to have fitted him. If, upon trial, it be found that a mistake has been made, the Principal reserves the right to transfer the student to the proper grade.

Students who have advanced sufficiently in Mathematics and the English branches to enter the Freshman class, but have not

studied Latin or Greek, will here find special arrangements made for their rapid advancement. Girls will be received as day scholars. A study hall has been reserved for their exclusive use and they are not obliged to mingle with the general class except at regular recitation periods. When at school they are under the care of a lady superintendent. Refined homes for them can be secured in town at moderate rates. They will be under the care of the Principal, who will be fully informed of their conduct.

RELIGIOUS EXERCISES.

On Sunday morning the students of the Preparatory Department are required to attend worship with the college instructors and students in the College Church, or such other place of worship as their parents or guardians may designate. A Bible class is conducted by the Principal every Sunday morning and is a part of the regular course of study. Chapel service is held every morning except Saturday.

COURSE OF STUDY.

The course of study is designed to prepare students of either sex, who desire to enter College, for the Freshman class, and to give students who do not expect to enter College, so far as it can carry them, a wide intelligence, true culture, and habits of careful and sound thinking. New and important subjects have been added, and increased attention is given to the lower classes. All students of the school have free access to the College Library, and students over fifteen years of age may join either of the College Literary Societies. There is also a Literary Society conducted by the students of the Department.

There is no musical course in the school, but arrangements for instruction at moderate terms may be made in town without conflict with school work.

A report of the work and conduct of each student is sent home at the end of each term, and at any other time upon request or when the Principal thinks it desirable.

There are two courses, the Classical (with Greek), and the

Scientific or Academic (with German, Physics and History). The subjects taught are as follows:

LATIN.

Middle Class. Comstock's First Latin Book. Second year Latin, with continuous drill in the grammar; analysis of words and sentences; prose composition based on the text.

Sub-Freshman Class. Cicero's Orations, first three against Catiline, with sight translation of advance passages; drill in syntax; Bennett's prose composition based on Cicero. Virgil's *Æneid*, I-III, with study of Latin Prosody; Mythology.

GREEK.

Middle Class. White's First Greek Book; complete survey of the language with syntactical analysis of the first eight chapters of Xenophon's *Anabasis*; study of word formation, rules of syntax, historical allusions; special drill on vocabulary.

Students in the Scientific course take English and French History (Montgomery's Series) instead of Greek.

Sub-Freshman Class. Xenophon's *Anabasis*, I-III, with continued drill in grammar and Attic forms. Translation at sight of book V, with special study of modes and tenses.

Students in the Scientific course will take instead of Greek Coleman's *Physics* and Vos' *Essentials of German* during the year.

Students who are prepared for college in all the other entrance requirements will be allowed to concentrate upon Latin, Greek and Mathematics, and a special class will be organized for their benefit.

MATHEMATICS.

Middle Class. Arithmetic completed, with the Metric system; Commercial Arithmetic. Wells' *Academic Algebra* through Simple Equations containing two unknown quantities.

Sub-Freshman Class. Algebra completed with special drill in the Equation. Drill in Geometrical Figures with Kitchener's *Note Book* as a guide. Wentworth's *Geometry*, I-III; solution of original problems.

HISTORY.

Middle Class. Montgomery's *History of the United States*.

Sub-Freshman Class. Grecian and Roman History with attention to social customs, education, literature, thought and art. Reading from standard works in history and biography.

ENGLISH.

Middle Class. Buehler's English Grammar. Reading, recitation, composition and declamation. Spelling, punctuation, capitals. Narration and description. Study of outlines.

Literature: Church's Story of the Iliad, Cooper's Last of the Mohicans, Longfellow's Miles Standish and Evangeline, Dickens' Christmas Carols, Tennyson's Enoch Arden, Irving's Sketch Book.

Sub-Freshman Class. Syntactical analysis. Buehler's Exercises in English. Study of the paragraph; figures, types of style. Abstracts and outlines. Declamation. Composition.

Literature: Macaulay's Essays on Frederick the Great, Addison's Sir Roger de Coverley Papers, Scott's Ivanhoe and Lady of the Lake, Hawthorne's Scarlet Letter, Eliot's Silas Marner, Tennyson's Idylls of the King, DeQuincey's The Flight of the Tartars.

NATURAL SCIENCE.

Middle Class. Coleman's Physics. Physiology with direct reference to Hygiene.

Sub-Freshman Class. Eclectic. Physical Geography. Natural laws and forces.

BUSINESS.

A course of instruction is given in Book-keeping when desired. This course is intended to fit young men for a business career.

PHYSICAL EXERCISE.

The building is surrounded with large and pleasant grounds adapted to football, baseball, tennis and other out-door sports; and in addition to this the students enjoy all the privileges and instruction of the College Gymnasium.

BUILDINGS AND ROOMS.

The building, located on a slight eminence north of town, is heated throughout by steam, and supplied with pure artesian water. A comfortable toilet room has been placed on the first floor. The rooms on the third floor are now arranged *en suite* with a broad archway separating the study and sleeping apartments. On the second floor the rooms are separate.

The rooms are furnished with heavy oak wardrobes, bookcases, washstands, tables and chairs. Iron enameled beds, complete with springs and mattresses, are also provided. Two students occupy two rooms, one for studying, the other for sleeping. The rooms are furnished with two single bedsteads, mattresses, chairs, table, bookcase, clothes closet, window curtains and washstand. The other articles needed for the rooms, and *to be furnished by the occupants*, are as follows: Washbowl and pitcher, mirror, lamp, oil can, slop pail, and carpet. The carpet for the third floor study room is 10½ by 10½, sleeping room 10½ by 11, for a second floor study room 10 by 12½. Each student must also be provided with towels, three sheets for single bed, two pillow slips, a spread, comforts and blankets, and feather pillow.

EXPENSES.

Tuition	\$12.00	\$9.00	\$9.00
Room-rent and use of furniture.....	8.25	7.00	7.00
Steam heat	3.60	4.20	1.80
Gymnasium Fee	2.00	2.00	2.00
Incidentals	13.00	11.50	9.50
*Athletic fee	2.00	2.00	2.00
	\$40.85	\$35.70	\$31.30

Students do not board in the building, but in clubs and private families at a cost of from \$2.50 to \$3.50 a week. Washing is \$1.75 a month. A deposit of one dollar will be required at the beginning of the year to insure the return of keys and the proper care of the room. This will be returned to the student at the end of the year if no damage has been sustained. Students who do not room in the building are not charged for room-rent or for heating.

All bills with the Institution must be paid at the beginning of each term. Money entrusted to the Principal for the use of stu-

For further information address
 dents will be expended as desired.

REV. CHARLES H. HUBER, A.M., *Principal*.

* By payment of this fee students are entitled to free admission to all inter-collegiate contests. Students who do not feel able to pay the fee can be excused by making application to the proper authority.

REGISTER OF STUDENTS.

COLLEGIATE DEPARTMENT.

SENIOR CLASS.

CLASSICAL COURSE.

Charles Greenough Aurand	<i>Altoona,</i>	17 M.
Harry Fridley Baughman	<i>Uniontown, Md.,</i>	23 E.
Ralph Emrick Bell	<i>York,</i>	14 M.
Samuel Edward Bower	<i>Berwick,</i>	14 S.
Ross Eldon Bowers	<i>Martinsburg,</i>	17 M.
George Edward Bowersox	<i>Silver Run, Md.,</i>	14 and 16 E.
William Herschel Brown	<i>Gainsboro, Va.,</i>	304 W. Middle St.
Eva Pauline Derr	<i>Upperco, Md.,</i>	139 N. Washington St.
Roy Victor Derr	<i>Creagerstown, Md.,</i>	2 W.
Samuel Fausold	<i>Latrobe,</i>	22 M.
Carl Weiser Fleck	<i>Reigelsville,</i>	31 and 32 E.
Edward Niles Frey	<i>Pittsburg,</i>	8 E.
Robert Harris Gearhart	<i>Sunbury,</i>	32 S.
Paul Koller Gotwald	<i>York,</i>	9 W.
Florence Gertrude Heathcote	<i>Gettysburg,</i>	135 Buford Ave.
Earl Cameron Herman	<i>York,</i>	7 M.
Harvey Sheely Hoshour	<i>Brooklyn, N. Y.,</i>	11 W.
John Trethan Jenkins	<i>Pottsville,</i>	7 M.
Julius Grover Cleveland Knipple	<i>Silver Run, Md.,</i>	10 M.
Harry Davis Lighty	<i>Steelton,</i>	21 E.
William Armour Logan	<i>Philadelphia,</i>	1 E.
Guy Emory McCarney	<i>Gettysburg,</i>	168 Carlisle St.
Paul Munde Marshall	<i>Shippensburg,</i>	31 S.
Carl Frank Miller	<i>Kingsville,</i>	9 E.
Paul S. Miller	<i>Hanover,</i>	34 E.
John Rogers Musselman	<i>Gettysburg,</i>	247 Baltimore St.
Elmer Frederick Rice	<i>Myersville, Md.,</i>	2 W.
John Beatty Ritter	<i>Fayetteville,</i>	Observatory.

Ralph Edward Rudisill	<i>Hanover.</i>	15 and 17 E.
Charles Norman Shindler	<i>York.</i>	16 W.
Henry Kuhns Starner	<i>Westminster, Md.,</i>	14 M.
Levering Tyson	<i>Reading.</i>	10 and 12 S.
John E. Weitzel	<i>Wrightsville,</i>	10 W.
Herman Diedrich Wolff	<i>Philadelphia,</i>	26 S.
Leslie Kauffman Young	<i>Kauffman's.</i>	5 M.

SCIENTIFIC COURSE.

Bruce Maurice Bare	<i>York.</i>	22 M.
Herbert Addington Bream	<i>Gettysburg,</i>	R. F. D. 4.
David Monroe Crist	<i>Walkersville, Md.,</i>	5 W.
William Howard Etsweiler	<i>Millersburg.</i>	5 M.
✓Maude Lydia Kathryn Fogle	<i>Hazleton.</i>	109 Springs Ave.
Harvey Nicholas Gilbert	<i>Chambersburg,</i>	30 S.
Adam James Hazlett	<i>Aspinwall.</i>	7 S.
Arthur Douglas Hunger	<i>Vandergrift,</i>	7 S.
Joseph Henry Shuff	<i>Emmitsburg.</i>	15 W.
John Harrison Sachs	<i>Gettysburg.</i>	140 E. Middle St.
Clarence Frederick Stifel	<i>Allegheny.</i>	22 S.
Harvey Wilmer Strayer	<i>York.</i>	20 and 22 W.
Ernest Henry Yohn	<i>Mechanicsburg.</i>	19 S.
		Seniors 43.

JUNIOR CLASS.

CLASSICAL COURSE.

Charles Millard Allabach	<i>Orangerville,</i>	13 E.
✓Mary Martha Bausch	<i>Everett,</i>	137 N. Washington St.
Earl Jerome Bowman	<i>Millersburg,</i>	17 W.
Clare McLean Davis	<i>Williamsport,</i>	1 W.
Louis Hetzel	<i>Connellsville.</i>	17 E.
✓Helen Kendlehart	<i>Gettysburg,</i>	47 W. Middle St.
✓Blanche Swope Klinger	<i>Gettysburg,</i>	130 Broadway.
Miles Henry Krumbine	<i>Schaefferstown,</i>	13 E.
Clay Edward Rice	<i>Myersville, Md.,</i>	2 W.
Joseph Ernest Stermer	<i>York.</i>	24 and 26 E.
Elmer Clayton Stouffer	<i>York.</i>	4 M.
Newton Daniel Swank	<i>Johnstown,</i>	10 M.
Harry Morgan Taxis	<i>Collingswood, N. J.,</i>	10 E.
✓Burnadette Thomas	<i>Gettysburg.</i>	240 Chambersburg St.

SCIENTIFIC COURSE.

Stanley Thomas Baker	<i>Noren.</i>	5 and 7 E.
Floyd William Bream	<i>Gettysburg.</i>	R. F. D. 4.
Alcone Daniel Breitenreiter	<i>Pittsburg.</i>	6 S.
Clarence Paul Brown	<i>Smithsburg, Md..</i>	30 E.
Maude Adeline Dorsey	<i>Motters, Md..</i>	329 Baltimore St.
Frances Marks Fritchey	<i>Gettysburg.</i>	15 E. Middle St.
George Granville Hatter	<i>Millersburg.</i>	17 W.
George Fernsler Hocker	<i>Steelton.</i>	20 S.
Joseph Leffler	<i>Millersburg.</i>	9 S.
William Whitney Leffler	<i>Millersburg.</i>	9 S.
William Walker McCaw	<i>McKeesport.</i>	6 S.
Edgar Grimm Miller, Jr.	<i>Columbia.</i>	24 S.
Milton Miller	<i>Sand Patch.</i>	11 M.
Milton Valentine Miller	<i>Columbia.</i>	24 S.
Richard J. Miller	<i>Harrisburg.</i>	8 S.
Guy Samuel Raffensperger	<i>Arendtsville.</i>	16 and 18 S.
Paul Beverly Stanley Rice	<i>Lemoyne.</i>	8 M.
John Lawrence Shelley	<i>Mechanicsburg.</i>	16 S.
James Craig Small	<i>Chambersburg.</i>	5 M.
Rodney Taintor Smith	<i>Newport.</i>	28 S.
George Mervin Spangler	<i>East Berlin.</i>	19 W.
John William Weimer	<i>York.</i>	18 E.
		Juniors, 36.

SOPHOMORE CLASS.

CLASSICAL COURSE.

John Edgar Ainsworth	<i>Le Gore, Md.,</i>	321 Carlisle St.
Wilbur Moses Allison	<i>York.</i>	22 W.
Charles Walt Beaver	<i>Academia.</i>	1 S.
Harry Hursh Beidelman	<i>Harrisburg.</i>	12 E.
Samuel Isett Bloomhardt	<i>Altoona.</i>	14 S.
Charles Stahle Butt	<i>Gettysburg.</i>	123 Carlisle St.
Harold Sheely Diehl	<i>Clear Spring, Md..</i>	11 W.
Paul Melanchthon Enders	<i>York.</i>	115 Buford Ave.
Charles Fausold	<i>Latrobe.</i>	21 M.
John Gabriel Fleck	<i>Reigelsville.</i>	31 and 33 E.
Luther Melanchthon Fritsch	<i>Amsterdam, N. Y.,</i>	12 W.
Margaret Gilliland	<i>Gettysburg.</i>	153 Carlisle St.

Elmer William Harner	<i>Littlestown,</i>	18 W.
Ernest Roy Hauser	<i>Hauser, Md.,</i>	27 W.
Clark Wesley Heller	<i>Wapwallopen,</i>	26 Chambersburg St.
Joseph Henry Hurst	<i>Hanover,</i>	37 E.
Niamond Fooreman Keller	<i>Mifflintown,</i>	14 W.
Wayne Blessing Krebs	<i>Hellam,</i>	16 W.
Sara Nancy Lau	<i>East Berlin,</i>	144 Carlisle St.
Bernard Seiss Lawyer	<i>Westminster, Md.,</i>	16 E.
Charles Edgar Leibegott	<i>Martinsburg,</i>	17 M.
Miles Raymond Law Markley	<i>Altoona,</i>	26 Chambersburg St.
Franklin Joseph Peck	<i>Duncansville,</i>	20 M.
Carl Christian Rasmussen	<i>Troy, N. Y.,</i>	7 W.
Mary Louise Rowe	<i>Gettysburg,</i>	201 N. Washington St.
Earl Stockslager Rudisill	<i>Littlestown,</i>	16 M.
Stewart Hartman Rudisill	<i>Gettysburg,</i>	159 Broadway.
Raymond Musser Rudy	<i>Harrisburg,</i>	27 W.
Luther Irvin Sachs	<i>Waynesboro,</i>	25 Chambersburg St.
Willard Elias Saltsgiver	<i>Sinsheim,</i>	36 E.
George Elmer Sheffer	<i>Bair,</i>	31 W.
Charles Augustus Shilke	<i>Lineboro, Md.,</i>	36 E.
Walter Daniel Spangler	<i>Gettysburg,</i>	39 E.
Norman Jay Gould Wickey	<i>Littlestown,</i>	18 W.

SCIENTIFIC COURSE.

Clarence Edgar Baughman	<i>Westminster, Md.,</i>	12 M.
Bugher Sloan Bartholomew	<i>Greensburg,</i>	8 W.
Harry Smith Beetem	<i>Longsdorf,</i>	19 W.
Mark Brenner	<i>Iola,</i>	129 Chambersburg St.
Thomas Neely Cashman	<i>York Springs,</i>	29 W.
Carl Cheston Dreibelbis	<i>Bloomsburg,</i>	19 W.
Berlin Empfield	<i>Blairsville,</i>	2 S.
Joseph Herr Fritchey	<i>Gettysburg,</i>	15 E. Middle St.
George Edwin Hartman	<i>Gettysburg,</i>	25 Hanover St.
Robert James Hartman	<i>McKeesport,</i>	5 S.
Hoyt Eugene Heller	<i>Wapwallopen,</i>	26 Chambersburg St.
Koss Maynard Hosack	<i>Indiana,</i>	2 S.
Henry Kurtz Hufford	<i>Reading,</i>	12 W.
Herbert Fowler Humphries	<i>Norwood,</i>	20 E.
Paul Whitesell Kepple	<i>Vandergrift,</i>	115 Chambersburg St.
William Sherman McCullough, Jr.	<i>Chicoia,</i>	16 M.
Edwin Clay Morrow	<i>Loysville,</i>	6 W.

Amos Sentman Musselman	<i>Gettysburg,</i>	247 Baltimore St.
Emory Durbin Ott	<i>Gettysburg.</i>	304 Baltimore St.
Orville Mallalien Ott	<i>Gettysburg.</i>	304 Baltimore St.
Elsie Louisa Paul	<i>Weatherly.</i>	115 Buford Ave.
Edred Joseph Pennell	<i>Mifflintown.</i>	21 S.
John Clويد Riun	<i>Indiana.</i>	38 E.
Hubert Royer	<i>Grantsville, Md.,</i>	205 Buford Ave.
Charles Milton Sincell	<i>Oakland, Md.,</i>	3 S.
Martin Luther Valentine	<i>Harney, Md.,</i>	13 M.
William Elliott Valentine	<i>Gettysburg,</i>	Confederate Ave.
Maurice Cornelius Wentz	<i>Lineboro, Md.,</i>	28 W.
Emmert Robert Woods	<i>Mechanicsburg.</i>	25 E.
Harry Snyder Wolfersberger	<i>Rockwood,</i>	30 W.
Robert Ezra Yohn	<i>Mechanicsburg,</i>	19 S.
Mark Victor Ziegler	<i>Melrose, Md.,</i>	7 W.
Sophomores, 66.		

FRESHMAN CLASS.

CLASSICAL COURSE.

William James Barnes	<i>Gettysburg.</i>	R. F. D. 4.
Homer Bortner	<i>Brodbecks,</i>	26 W.
Lee Otis Carbaugh	<i>Arendtsville.</i>	15 Chambersburg St.
Donald Bruce Coover	<i>Gettysburg.</i>	Springs Ave.
Paul Snyder Creager	<i>Dillsburg.</i>	31 W.
Erle Kerper Diehl	<i>Gettysburg.</i>	47 Hanover St.
Joseph Dale Diehl	<i>York.</i>	29 W.
Roy Diehl	<i>Greencastle.</i>	19 E.
John Frederick Dulebohn	<i>Mason and Dixon.</i>	35 E.
Maude Nicholas Fahs	<i>Mifflintown.</i>	115 Chambersburg St.
Robert Burns Fortenbaugh	<i>Harrisburg.</i>	16 M.
George S. Garman	<i>Brodbecks.</i>	24 W.
Charles David Fleagle	<i>Thurmont, Md.</i>	168 Carlisle St.
James Heilman Gross	<i>Manchester.</i>	28 E.
John Peter Gruver	<i>York.</i>	20 E.
Earl Justin Haverstick	<i>Altoona,</i>	3 E.
John Hervey Hege	<i>Williamson.</i>	6 E.
Clyde Leroy Hesson	<i>Taneytown, Md.,</i>	18 M.
August Herman Hinternessch	<i>Baltimore, Md.,</i>	20 M.
Claude Talmage King	<i>Littlestown.</i>	18 W.
Frank Adam Kister	<i>Coney Island, N. Y.,</i>	28 W. High St.

Daniel Jacob Klinedinst	York,	23 W.
John Clayton Knaub	York,	18 M.
Jack Krissinger Kurtz	Berlin,	9 M.
John Calvin Lang, Jr.	Hollidaysburg,	26 Chambersburg St.
Paul Yount Livingston	York,	23 W.
Robert Leo McNally	Harrisburg,	4 M.
Aaron Lewis Mehring	Philadelphia,	15 Chambersburg St.
George Michael Miller	Glenville,	26 W.
John Russell Nicholas	Kintnersville,	31-33 S.
John Dress Pannell	Steelton,	11 E.
Ernest Luther Pee	Everett,	13 W.
Walter Lee Reitz	Shanksville,	27 E.
Walker Lawrence Riethmiller	Indiana,	32 E.
Lottie Clinton Ritz	Red Lion,	20 E.
James Jay Robbins	Eyer's Grove,	6 M.
Lillian Margaret Rowe	Gettysburg,	201 N. Washington St.
Benton Franklin Rudisill	Gettysburg,	159 Broadway.
Verna Alverta Schwartz	Gettysburg,	143 E. Middle St.
David Luther Shaffer	Johnstown,	29 E.
Frank Edwin Smith	Leechburg,	129 Chambersburg St.
William Edward Teitbohl	So. Williamsport,	30 E.
Samuel Knox White	Fairfield,	1 S.
John Wesley Wolfe	Maytown,	18 M.

SCIENTIFIC COURSE.

Maurice Edgar Baker	Gettysburg,	322 Baltimore St.
John Milton Blocher	Gettysburg,	28 W. Middle St.
Robert Stewart Brown	Gettysburg,	114 Baltimore St.
Ira Alvin Bush	Vandergrift,	33 S.
Chester Franklin Coleman	Steelton,	16 M.
Samuel Reynolds Diehl	Cashtown,	6 M.
John Christian Habermen	Latrobe,	23 E.
John Calvin Hartman	Gettysburg,	25 Hanover St.
Russell Sutcliffe Hummel	Hummelstown,	22 E.
Richard Ziegler McGowan	Harrisburg,	11 S.
Ellis L. Meilott	Everett,	26 E.
John Clarence Peters	Montoursville,	23 S.
Martin Lloyd Peters	Dallastown,	20 M.
Ervin Adam Shaffer	Gettysburg,	Steinwehr Ave.
Edward Hood Sincell, Jr.	Oakland, Md.,	3 S.
Harold Hartman Spangler	Gettysburg,	48 York St.
John Morris Steck	Smithsburg, Md.,	38 E.

Charles Harold Steele	<i>Middletown.</i>	129 Chambersburg St.
Alter Krecger Ulsh	<i>Washington, D. C.,</i>	9 S.
Robert Byron Walker	<i>Meyersdale,</i>	9 M.
Samuel Clapham Witherspoon	<i>Guilford Springs.</i>	30 S.
Arno Roy Zack	<i>Vandergrift.</i>	9 S.

Freshmen, 66.

PARTIAL COURSE.

Harry Aldinger	<i>Harrisburg.</i>	15 S.
Joseph Tate Bayly, Jr.	<i>Gettysburg.</i>	301 York St.
John Bruce Beard	<i>Gettysburg.</i>	R. F. D. 3.
Claude Francis Beegle	<i>Everett.</i>	13 Chambersburg St.
Howard Paul Blake	<i>Altoona.</i>	34 S.
Robert Herr Bowman	<i>Millersburg.</i>	3 M.
Charles Swartz Bream	<i>Gettysburg.</i>	114 E. Middle St.
Ruth Mary Bream	<i>Gettysburg.</i>	124 Springs Ave.
Roy Talmage Brumbaugh	<i>Philadelphia.</i>	35 S.
Levi Adam Bupp	<i>York.</i>	9 W.
William Harrison Burd	<i>Cresson.</i>	4 S.
John Homer Burdette	<i>Charlestown, W. Va.,</i>	8 M.
Edgar Grove Clark	<i>Harrisburg.</i>	8 S.
Frank Mumma Comfort	<i>Mechanicsburg.</i>	1 York St.
Robert Charles Fluhrer	<i>York.</i>	14 M.
Clyde Early Gerberich	<i>Middletown.</i>	129 Chambersburg St.
Anna Gilliland	<i>Gettysburg.</i>	153 Carlisle St.
Jay Lewis Harman	<i>Huntingdon.</i>	8 W.
Mathias Smyser Lewis	<i>York.</i>	10 S.
Oscar Robert Mellin	<i>Phillipsburg.</i>	5 S.
Harry Hunseicker Mercer	<i>Mechanicsburg.</i>	27 S.
Raymond Boyd Nell	<i>Allen.</i>	25 Chambersburg St.
George Franklin Poffenberger	<i>Foltz.</i>	19 W.
Walter Wallace Reindollar	<i>Taneytown, Md.,</i>	28 W.
Raymond Witmer Sieber	<i>Gettysburg.</i>	37 W. Middle St.
Joseph McCleary Smith	<i>Hopewell.</i>	15 Chambersburg St.
Joseph John Stock	<i>Gettysburg.</i>	11 Baltimore St.
Seth Taylor Stugart	<i>Montoursville.</i>	8 M.
Amy McCurdy Swope	<i>Gettysburg.</i>	208 Baltimore St.
Margaret Grayson Valentine	<i>Gettysburg.</i>	Confederate Ave.

Partial Course, 30.

PREPARATORY DEPARTMENT.

SUB-FRESHMAN CLASS.

Charles Alfred Barr	<i>Altoona.</i>	46 St.
Merle Lloyd Bowser	<i>Vandergrift.</i>	39 S.
Raymond Lewis Carbaugh	<i>Arendtsville.</i>	45 St.
Joseph Warfield Collins	<i>Two Taverns.</i>	20 E. Water St.
Frederick Bowman Dapp	<i>Harrisburg.</i>	44 St.
William Walter Deneen	<i>Frostburg, Md..</i>	29 St.
James Earle Dull	<i>Rockwood.</i>	25 W.
Lewis Chester England	<i>Everett.</i>	38 St.
John Ward Fisher	<i>Cumberland Valley.</i>	38 St.
Lloyd Benjamin Ganser	<i>Palmyra.</i>	28 W. Water St.
Mahlon Russell Hagerty	<i>Philipsburg.</i>	28 St.
Clement Roscoe Hoffman	<i>Gettysburg.</i>	166 Carlisle St.
John Franklin Houck	<i>Heidlersburg.</i>	38 St.
Ralph Garn Ickes	<i>Elton.</i>	39 St.
Walter Epley Johns	<i>Gettysburg.</i>	Emmitsburg Road.
Roger Mitchell Klinger	<i>Gettysburg.</i>	130 Broadway.
Frank Henry Kramer	<i>West Hoboken, N. J..</i>	1 W.
William Brolaski Martin	<i>Gettysburg.</i>	43 Lincoln Ave.
Luther Edward McDonnell	<i>Gettysburg.</i>	140 W. Middle St.
John Croft Myers	<i>Marion.</i>	23 St.
Oscar Berger Noren	<i>Bridgeport, Conn..</i>	30 St.
William Leonard Oyler	<i>Gettysburg.</i>	166 Carlisle St.
Thomas Walker Philson	<i>Berlin.</i>	46 St.
Glenn Fox Poffinberger	<i>Highfield, Md..</i>	Highfield, Md.
Edwin Agnew Rice	<i>Arendtsville.</i>	45 St.
Louis Merrill Riddle	<i>Roaring Springs.</i>	6 E.
Howard Edward Russell	<i>Hazleton.</i>	3 M.
George Harrison Schaeffer	<i>Leetonia, Ohio.</i>	28 Chambersburg St.
Ralph Alexis Shafer	<i>Barkittsville, Md..</i>	166 Carlisle St.
Samuel Kline Spicher	<i>Thompsontown.</i>	23 St.
Norman Denins Starry	<i>York Springs.</i>	129 Chambersburg St.
Donald Mark Stock	<i>Haanver.</i>	154 York St.
Harry Jay Troxell	<i>Gettysburg.</i>	27 Hanover St.
Ralph Montineu Weaver	<i>Gettysburg.</i>	66 W. High St.
Charles Henry Weigandt	<i>Philadelphia.</i>	
Marshall Filler Weimer	<i>Clearville.</i>	26 Chambersburg St.
Jabez B. Workman	<i>Frostburg, Md..</i>	24 St.
Maurice Albert Ziegler	<i>Gettysburg.</i>	122 E. Middle St.
		Sub-Freshmen, 38.

MIDDLE CLASS.

Clarence Farmine Burdette	<i>Charlestown, W. Va.,</i>	8 M.
Irene Burford	<i>Kittanning.</i>	162 York St.
John Butt	<i>Gettysburg.</i>	123 Carlisle St.
Benjamin Frank Derr, Jr.	<i>Pottsville.</i>	33 St.
Nest Hazel Hansford	<i>Parsons, W. Va.,</i>	32 W. Middle St.
William Lamar Hansford	<i>Parsons, W. Va.,</i>	32 W. Middle St.
John Wilson Hartman	<i>Gettysburg.</i>	9 Hanover St.
William Roy Hashinger	<i>Coatsville.</i>	33 St.
Harold Byron Heinsling	<i>Altoona,</i>	28 St.
Archie Hollinger	<i>Gettysburg.</i>	Bendersville Road.
John Wesley Hunger	<i>Vandergrift.</i>	X S.
George William Hurst	<i>Hanover.</i>	37 E.
Roy Edward McIntyre	<i>Boonsboro, Md.,</i>	27 St.
Lloyd Conover Keefauver	<i>Gettysburg,</i>	20 E. Water St.
James Franklin Kelly	<i>Gettysburg.</i>	601 Baltimore St.
Ruth Anna Meales	<i>Gettysburg.</i>	Bendersville Road.
Virginia Miller	<i>Gettysburg.</i>	145 Buford Ave.
Thomas Hay Nixon	<i>Gettysburg.</i>	1 Campus.
Clarence Carnaben Smith	<i>Gettysburg.</i>	24 St.
George Emerson Snyder	<i>New Oxford.</i>	34 St.
		Middlers, 20.

SUMMARY.

Seniors	48
Juniors	36
Sophomores	66
Freshmen	66
Partial Course Students	30
	—
Collegiate Department	246
Preparatory Department	58
	—
Total	304

COMMENCEMENT, 1909.

DEGREES, HONORS AND PRIZES.

BACHELORS OF ARTS.

CLASS OF 1909.

Elizabeth Jeannette Bayly	Charles Leonard Kopp
Virginia Marion Beard	Elias Trostle Lau
Paul Frederick Bloomhardt	John Calvin McCarrell
Helen Harriet Brenneman	Robert Ellsworth Peterman
James Howard Buck	Norman Guy Phillipy
Milo R. Clare	Mervin Elmer Smith
Helen Glace Culp	Edgar Ernest Snyder
Earle Vinton Ehrhart	Samuel Franklin Snyder
George Raymond Haaf	Simon Snyder
Edward Rohrbaugh Hamme	Harry Blaine Strock
George Theobaid Heintz	Alfred Lewis Taxis
Charles Felder Vanmetre Hesse	Grover Tracy
George Linn Kieffer	Harry Rey Wolf
Clark Benjamin Kistler	George Edgar Wolfe

Margaret Anderson Lott, as of the class of 1907.

SCIENTIFIC COURSE.

George Nicholas Acker	Clarence Lantz Steumpfig Raby
Joseph Arnold	Charles Garfield Remsburg
Maurice Blocher Bender	Clarence E. Reyner
Aaron Arthur Bright	Keller Emrich Rockey
Felton Samuel Dengler	Harry Clayton Sieber
Victor Budd Hausknecht	Leslie Watson Taylor
Karl Frederick Irvin	Lloyd Van Doren
John Roy McMillan	Arthur Keller Santee Waltz
Oliver Daniel Mosser	Maurice Stevenson Weaver
Benjamin Philson	John Brown Zinn
Samuel Philson	

CLASS OF 1909.

Second Honor.

Paul Frederick Bloomhardt	Arthur Keller S. Waltz (3 yrs.)
George Theobald Heintz	Clarence Lantz S. Raby
Edgar Ernest Snyder	Charles Leonard Kopp
Virginia Marion Beard	Oliver Daniel Mosser
Lloyd Van Doren	George Edgar Wolfe
Felton Samuel Dengler	Clark Benjamin Kistler

GRAEFF PRIZE:

For best essay on Milton's "Samson Agonistes."

George Edgar Wolfe

with honorable mention of

Paul Frederick Bloomhardt.

CLASS OF 1910.

HASSLER GOLD MEDAL: JUNIOR LATIN PRIZE:

Harry Davis Lighty

with honorable mention of

Harvey Sheely Hoshour Julius Grover Cleveland **Knipple**

John Rogers Musselman Roy Victor Derr

Levering Tyson

PITTSBURG CLUB PRIZE IN CHEMISTRY:

Harvey Nicholas Gilbert

with honorable mention of

John Harrison Sachs Ernest Henry Yohn

REDDIG PRIZE IN ORATORY:

Ralph Edward Rudisill

with honorable mention of

Earl Cameron Herman

CLASS OF 1911.

GIES PRIZES IN DEBATE:

First, Second and Third Prizes:

Charles Millard Allabach Earl Jerome Eowman

Oliver Cleveland Riethmiller

BAUM SOPHOMORE MATHEMATICAL PRIZE:

George Granville Hatter Roy Randolph Allen
 Clarence Paul Brown
 with honorable mention of
Stanley Thomas Baker Clay Edward Rice
Rufus Nathaniel Wenrich Miles Henry Krumbine

CLASS OF 1912.

MUHLENBERG FRESHMAN PRIZE: GENERAL SCHOLARSHIP:

 Franklin Joseph Peck
 with honorable mention of
Norman Jay Gould Wickey Carl Cheston Dreibelbis
Raymond Musser Rudy Luther Melanchthon Fritsch

MASTER OF ARTS IN COURSE:

1885

Rev. Reuben S. Stare

1903

Mary Cecelia Sieling Norman A. Yeany

1905

John Stonesifer Gilbert

1906

Rev. Jonas Saner Blank Elam Gross Hess
Rev. Hylas Clyde Brillhart Bertram A. Strohmeier
George William Gulden Joseph Harold Wolff

MASTER OF SCIENCE IN COURSE:

1903

D. Leslie Diehl

HONORARY DOCTOR OF SCIENCE:

Isaac Newton Snively, M.D., (1887) Philadelphia.

HONORARY DOCTOR OF LETTERS:

Huber Gray Buehler, A.M., (1883), Lakeville, Conn.

HONORARY DOCTOR OF DIVINITY:

- Rev. Martin P. Hocker, (1880), Steelton.
 Rev. John P. Hentz, (1861), Dayton, Ohio.
 Rev. Horace L. Jacobs, (1882), Altoona.
 Rev. Upton A. Hankey, (1879), New Kingston.

 SUMMARY OF GRADUATES.

(Exclusive of Honorary Degrees.)

Bachelors of Arts	1395
Bachelors of Science	151
Doctors of Philosophy (holding their first degree from other institutions.)	7
	<hr/>
Whole number of graduates.....	1553

GRADUATES.

EXPLANATION.—The profession of the graduate is recorded when practicable under the following heads: Agriculture, [*Ag.*]; Education and Science, [*Ed.*]; Engineering, [*Eng.*]; Finance, [*Fin.*]; Government Service, [*Gov.*]; Journalism, [*Jour.*]; Law and Judiciary, [*Law, Jud.*]; Medicine, [*Med.*]; Mercantile Pursuits, [*Merc.*]; Ministry, (with For. Miss.) [*Min. Miss.*]; Transportation, [*Trans.*]. Dates after degrees show that the degrees then conferred were given by *this* College after examination upon the completion of a course of study. The asterisk with a date indicates the decease of the graduate within the given year.

1834.

*Jacob B. Bacon, New York City, [<i>Jour.</i>]	*1896
*David G. Barnitz, Newark, N. J., [<i>Law</i>]	*1877
*Rev. William H. Smith, M.D., London, Eng., [<i>Min.</i>]	*187-

1835

*Pres. David F. Bittle, D.D., Roanoke C., Salem, Va., [<i>Ed.</i>]	*1876
*Hon. Michael G. Dale, Edwardsville, Ill., [<i>Law, Jud.</i>]	*1896
*Pres. Ezra Keller, D.D., Witten. C., Springfield, O., [<i>Ed.</i>]	*1848
*Abraham B. Shuman, Philadelphia,	*1851
*William Ruthrauff, Gettysburg,	*1847
*Alexander R. Stevenson, Gettysburg, [<i>Law</i>]	*1852
*Rev. Charles F. Stoever, Mechanicsburg, [<i>Min.</i>]	*1880
*Theophilus Stork, D.D., Philadelphia, [<i>Jour.</i>]	*1874

1837

*George Diehl, D.D., Frederick, Md., [<i>Min.</i>]	*1891
*Rev. Emanuel Frey, York, [<i>Min.</i>]	*1871
*James Macfarlane, Ph.D., Towanda, [<i>Law.</i>]	*1885
*Thomas Means, Centerville, Ind., [<i>Law</i>]	*1884

1838

*James Crapster, Baltimore, Md..	*1843
*Rev. James R. Keiser, Petersburg, Va., [<i>Min.</i>]	*187-
*Rev. F. A. M. Keller, Reading, [<i>Min.</i>]	*1864
*John E. Nail, Jonesboro, Ill., [<i>Law.</i>]	*1875
*Prof. M. L. Stoever, Ph.D., LL.D., Gettysburg, [<i>Ed.</i>]	*1870

- *Rev. Cyrus Waters, Windsor, N. C., [*Min.*] *1870
- 1839
- *Frederick R. Anspach, D.D., Baltimore, Md., [*Min.*] *1867
 *Chas. L. Baker, M.D., Lancaster, [*Med.*] *1859
 *Rev. Christopher C. Baughman, Philadelphia, [*Min.*] *1888
 *David A. S. Eyster, San Jose, Cal., *1887
 William F. Eyster, D.D., Crete, Neb., [*Min.*]
 *Rev. J. Gering Harris, Bellefontaine, O., [*Min.*] *1900
 *Prof. Charles A. Hay, D.D., Gettysburg, [*Ed.*] *1893
 *Rev. John Heck, Smithsburg, Md., [*Min.*] *1861
 *Rev. William M. Heilig, Lutherville, Md., [*Min.*] *1888
 *V. Prov. C. P. Krauth, D.D., LL.D., Univ. Pa., Phila., [*Ed.*] *1883
 *John George Leas, Gettysburg. *1841
 *James L. Shock, D.D., New York City, [*Min.*] *1865
 *Rev. William A. Wadsworth, Wooster, O., [*Min.*] *1843
 *Rev. Philip Willard, Mexico, Pa., [*Min., Ed.*] *1893
- 1840
- *Rev. Gottlieb Bassler, Zelienople, [*Min.*] *1868
 *James A. Brown, D.D., Wytheville, Va., [*Min.*] *1900
 *Hugh D. Downey, Iowa City, Ia., [*Law*] *1867
 *David A. Martin, Baltimore, Md. *1900
 *Rev. Eli Swartz, De Soto, Ill., [*Min.*] *1892
 *Columbus Witherow, M.D., Manderville, Mo., [*Med.*] *1891
- 1841
- *J. William Albach, Milwaukee, Wis., [*Ed.*] *1900
 *Henry Baker, D.D., Lancaster, [*Min.*] *1894
 *Rev. Nathan H. Cornell, Philadelphia, [*Min.*] *1896
 *Rev. J. George Donmeyer, Beuna Vista, Ill., [*Min.*] *1887
 William Gerhardt, D.D., Martinsburg, W. Va., [*Min.*]
 *William B. McClellan, Gettysburg, [*Law.*] *1863
 *Ephraim Miller, D.D., Punxsutawney, [*Min.*] *1899
 *Rev. Jacob Scherer, Hillsboro, Ill., [*Min.*] *1851
 *Rev. William Weaver, Philadelphia, [*Min.*] *1896
 *Rev. Charles Witmer, Des Moines, Ia., [*Min.*] *1884
 *Prof. Henry Ziegler, D.D., Selinsgrove, [*Ed.*] *1898
- 1842
- *Rev. Fred A. Barnitz, Middletown, [*Min.*] *1889
 *Rev. Edward Breidenbaugh, Gettysburg, [*Min.*] *1906
 *Prof. Jas. A. Brown, D.D., LL.D., Theol. Sem., Gettysburg,
 [*Ed.*] *1882

*Rev. Adam R. Height, Macon, Ill., [<i>Min.</i>]	*1899
*Rev. Aaron J. Karn, Savannah, Ga., [<i>Min.</i>]	*1860
*John Kohler, D.D., Leacock, [<i>Min.</i>]	*1898
*Rev. Geo. W. McMillan, Perth Amboy, N. J., [<i>Miss.</i>]	*1885.
*George Parson, D.D., Sunbury, [<i>Min.</i>]	*1897
*Rev. M. Frederick Pfahler, Deal, [<i>Min.</i>]	*1890.
*Pres. J. P. Benjamin Sadtler, D.D., Baltimore Md., [<i>Ed.</i>]	*1901
*Peter G. Sauerwein, Mt. Washington, Md., [<i>Law.</i>]	*1886
*Rev. Martin Sondhaus, St. Louis, Mo., [<i>Min.</i>]	*1878
*Adam J. Weddel, D.D., Norristown, [<i>Min.</i>]	*1896.

1843

*Daniel H. Bittle, D.D., Savannah, Ga., [<i>Min.</i>]	*1874
*David A. Buehler, Gettysburg, [<i>Law. Jour.</i>]	*1887
*John E. Graeff, Philadelphia.	*1898
*William H. Harrison, D.D., Cincinnati, O., [<i>Min.</i>]	*1866
*Charles Horner, M.D., Gettysburg, [<i>Med.</i>]	*1895
*Rev. Lloyd Knight, Yutan, Neb., [<i>Min.</i>]	*1895
*Rev. Wm. A. Kopp, Water Cure, [<i>Min.</i>]	*1868
*Prof. W. M. Paxton, D.D., LL.D., Princeton, N. J. [<i>Ed.</i>]	*1904
*John Reidenour, M.D., Lebanon, [<i>Med.</i>]	*1850
*Rev. John Rugan, Vandalia, Ill., [<i>Min.</i>]	*1870
*Alfred H. Smith, Chambersburg, [<i>Law.</i>]	*1855.

1844

*Peter Anstadt, D.D., York [<i>Jour.</i>]	*1903.
*Oscar F. Baugher, Brooklyn, N. Y., [<i>Law.</i>]	*1893
*Joseph B. Bittinger, D.D., Sewickley, [<i>Min.</i>]	*1885
*Joseph P. Clarkson, Chicago, Ill., [<i>Law.</i>]	*1877
*Rt. Rev. Robert H. Clarkson, D.D., LL.D., Omaha, Neb.	*1884
*Rev. Thomas W. Corbett, Herring, O., [<i>Min.</i>]	*1895
*Prof. Michael Diehl, D.D., Springfield, O., [<i>Ed.</i>]	*1869
Henry J. Fahnstock, Watertown, S. Dakota, [<i>Merc.</i>]	
*John M. McFarland, Charlestown, W. Va.,	*1856
*John T. Morris, 215 N. Charles St., Baltimore, Md., [<i>Law.</i>]	*1909
*Rev. George A. Nixdorff, Frederick, Md., [<i>Min.</i>]	*1907
*Beale M. Schmucker, D.D., Pottstown, [<i>Min.</i>]	*1888

1845

*Rev. John W. Miller, Graham Station, W. Va., [<i>Min.</i>]	*1891
*Matthias Miller, Winchester, Va., [<i>Ag.</i>]	*1905
*Sylvanus Shimer, Philadelphia, [<i>Law.</i>]	*1898
*Jesse W. Stocker, M.D., Jefferson Co., W. Va., [<i>Med.</i>]	*1877

1846

*Wm. M. Baum, D.D., Philadelphia. [<i>Min.</i>]	*1902
*Hon. Charles A. Brougher, Jackson, Miss., [<i>Law.</i>]	*1891
*Hon. J. Marshall Clement, Mocksville, N. C., [<i>Law.</i>]	*1886
*Henry C. Eckert, M.D., Hanover. [<i>Med.</i>]	*1867
*Rev. Prof. Hezekiah R. Geiger, Ph.D., Springfield, O., [<i>Ed.</i>]	*1899
*John E. Herbst, M.D., Kansas City, Mo., [<i>Med.</i>]	*1898
*John Alonzo Houck, Gettysburg	*1849
*William A. Huber, M.D., Lebanon. [<i>Med.</i>]	*1889
Charles A. Keyser, 212 So. 43rd St., Philadelphia.	
*Rev. George J. Martz, Lebanon, [<i>Min. Miss.</i>]	*1898
*William A. Renshaw, Littlestown.	*1847
*Pres. Josiah P. Smeltzer, D.D., Walhalla, S. C., [<i>Ed.</i>]	*1887
*William H. Stevenson, 1103 McCulloh St., Balto., Md., [<i>Law.</i>]	*1908
*Augustus C. Wedekind, D.D., National City, Cal., [<i>Min.</i>]	*1897

1847

*Luther E. Albert, D.D., Germantown, [<i>Min.</i>]	*1908
*Rev. Martin M. Bechtel. [<i>Min.</i>]	*188--
Col. John A. Bradshaw, 406 Central Park West, New York City,	[<i>Law.</i>]
*Rev. Frederick Brauns, Buffalo, N. Y., [<i>Min.</i>]	*1895
*Rev. Abraham Essick, Chambersburg. [<i>Min., Ed.</i>]	*1904
*Rev. David J. Eyler, Waynesboro, [<i>Min.</i>]	*1860
*Col. Edward G. Fahnestock, M.D., Mineapolis, Minn.	*1908
*Reuben A. Fink, D.D., Johnstown, [<i>Min.</i>]	*1895
*Rev. Jacob H. Heck, Knowersville, N. Y., [<i>Min.</i>]	*1886
*Henry Jacobs, M.D., Waynesboro. [<i>Med.</i>]	*1857
*Moses W. Merryman, M.D., Baltimore, Md., [<i>Med.</i>]	*1904
*William H. Morris, Baltimore, Md., [<i>Ed.</i>]	*1887
*Rev. John K. Plitt, Philadelphia, [<i>Min.</i>]	*1898
*Mark Posey, Selma, Ala.	*1857
*Rev. Peter Raby, Kimberton. [<i>Min.</i>]	*1884
*Rev. Philip Sheeder, Gettysburg, [<i>Min.</i>]	*1896
*Prin. William H. Witherow, Mt. Zion Ins., Winnsboro, S. C.,	*1902

1848

*Gideon B. Alston, Warrenton, N. C., [<i>Law.</i>]	1894
*David W. Badham, Edenton, N. C., [<i>Law.</i>]	*1857
*Henry M. Bickel, D.D., Philadelphia, [<i>Min., Jour.</i>]	*1893
*Prof. Peter Born, D.D., Selinsgrove, [<i>Ed.</i>]	*1899

*Victor L. Conrad, Ph.D., D.D., Philadelphia, [<i>Ed., Jour.</i>]	*1900
Levi W. Folsom, Taylor's Falls, Minn., [<i>Law.</i>]	
*Aaron W. Lilly, D.D., Mechanicsburg, [<i>Min.</i>]	*1902
*Hon. Geo. C. Maund, Baltimore, Md., [<i>Law.</i>]	*1884
*Edward McPherson, LL.D., M.C., Gettysburg [<i>Jour., Gov.</i>]	*1895
*Rev. J. Keller Miller, Center Hall, [<i>Min.</i>]	*1837
*Rev. Edmund Miller, Dixon, Ill., [<i>Ed.</i>]	*1888
*Rev. Prin. William D. Røedel, Wytheville, Va., [<i>Ed.</i>]	*1865
*Prof. John A. Tressler, Cap. Hill Univ., Columbus, O., [<i>Ed.</i>]	*1851

1849

*Hon. Col. John C. Badham, Edenton, N. C., [<i>Law.</i>]	*1861
*Rev. John H. Cupp, Front Royal, Va., [<i>Min.</i>]	*1884
*W. Kent Gilbert, M.D., Philadelphia, [<i>Med.</i>]	*1880
*Rev. Elias S. Henry, Pine Grove, [<i>Min.</i>]	*1897
*Rev. Henry S. Koons, Hanover, [<i>Ed.</i>]	*1869
Rev. Graft M. Pile, De Soto, Mo., [<i>Min.</i>]	
*Abel Rambo, Ph.D., Trappe, [<i>Ed.</i>]	*1887
*Hon. John E. Smith, Westminster, Md., [<i>Law. Jud.</i>]	*1890
*Rev. John N. Unruh, Hooversville, [<i>Min.</i>]	*1888
*Prof. S. Carson Wells, Ph.D., LL.D., Salem, Va., [<i>Ed.</i>]	*1900

1850

*Rev. George W. Anderson, Melrose, N. Y., [<i>Min.</i>]	*1888
*Daniel J. Barrick, Washington, D. C., [<i>Ed., Merc.</i>]	*1895
*John F. Baugher, Baltimore, Md., [<i>Ed.</i>]	*1901
*Prof. Wm. J. T. Carroll, Ph.D., Norfolk, Va., [<i>Ed.</i>]	*1903
Hon. James F. Crocker, Portsmouth, Va., [<i>Law. Jud.</i>]	
*John M. Eichelberger, St. Louis, Mo., [<i>Law.</i>]	*1854
*Rev. Prin. Charles J. Ebrehart, Gettysburg. [<i>Min., Ed.</i>]	*1870
*Rev. Daniel Garver, Greensburg, [<i>Min.</i>]	*1865
*Rev. William F. Greaver, Williamsport, Md., [<i>Min.</i>]	*1857
*Robert G. Harper, Jr., Dayton, Md., [<i>Ed.</i>]	*1867
*Rev. Samuel O. Kämpfer, M.D., ———, Kan.	*—
*Rev. J. Keller Kost, Island Lake, Fla., [<i>Min.</i>]	*1897
*Rev. Cornelius Nitteraur, Blairsville, [<i>Min.</i>]	*1861
*Rev. Prof. Henry Reck, Rock Island, Ill., [<i>Ed.</i>]	*1881
*David Stroh, Shippensburg, [<i>Ed.</i>]	*1860
*Prof. M. Valentine, D.D., LL.D., Gettysburg, [<i>Ed.</i>]	*1906
*Rev. Prof. Daniel Worley, Canton, O., [<i>Min., Ed.</i>]	*1888
*Rev. Samuel Yingling, Columbia, [<i>Min.</i>]	*1884

1851

*Rev. Louis J. Bell, Smithsburg, Md., [<i>Min., Merc.</i>]	*1907
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*W. A. Castleman, M.D., Williamsburg, Can., [<i>Med.</i>]	*1868
*Rev. John S. Crumbaugh, Lancaster, [<i>Ed.</i>]	*1859
*Hon. George Eyster, Philadelphia, [<i>Law.</i>]	*1886
*Hon. William G. George, South Bend, Ind., [<i>Law.</i>]	*1890
*Rev. Charles H. Hersh, Baltimore, Md., [<i>Min.</i>]	*1859
*Jacob A. Lefevre, D.D., Columbia, Mo.	*1905
*Edward Minturn, M.D., Philadelphia.	*1858
Edward A. Sharretts, D.D., 2862 James Ave., Minneapolis, Minn., [<i>Min.</i>]	
*Rev. Prof. Isaac Sprecher, Waynesboro, [<i>Min., Ed.</i>]	*1907
*Theodore A. Stecher, Philadelphia, [<i>Trans.</i>]	*1880
*Rev. David Swope, Centerville, [<i>Min.</i>]	*1881
*Rev. Allen Traver, Junius, N. Y., [<i>Min.</i>]	*1889
*Hon. David Wills, Gettysburg, [<i>Law, Jud.</i>]	*1894

1852

Henry A. Grim, M.D., Allentown, [<i>Med.</i>]	
*Renben Hill, D.D., Philadelphia, [<i>Min.</i>]	*1895
*John W. Hassler, D.D., 26 N. Lime St., Lancaster, [<i>Min.</i>]	*1905
*Rev. John W. Kregel, Uniontown, Md., [<i>Min.</i>]	*1854
Pres. John J. Scherer, D.D., Marion, Va., [<i>Ed.</i>]	
*Hon. George H. Spang, Hollidaysburg, [<i>Law.</i>]	*1897
*Peter R. Wagenseller, M.D., Selinsgrove, [<i>Med.</i>]	*1873

1853

*A. Nesbit Baugher, Galena, Ill., [<i>Law. Jour.</i>]	*1862
*Peter Bergstresser, D.D., Wilkesburg, Pittsburg, [<i>Min.</i>]	*1905
Rev. Ferdinand Berkemeyer, Sellersville, [<i>Min.</i>]	
*Christopher Fine, New York City, [<i>Law.</i>]	*1899
*P. D. W. Hankey, Gettysburg, [<i>Ed.</i>]	*1900
*Isaac B. Hankey, Ph.D., Cridersville, [<i>Ed.</i>]	*1881
*Levi K. Hoch, Middletown, Md.,	*1874
*Rev. Thomas W. Kemp, Baltimore, Md., [<i>Min.</i>]	*1861
*Daniel S. Riddle, New York City, [<i>Law.</i>]	*1882
John Schwartz, Littlestown R. R. 2, [<i>Ed.</i>]	
*Rev. Prof. Benj. C. Suesserott, Lancaster, [<i>Ed.</i>]	*1876
*Rev. Timothy T. Titus, Hartwick, N. Y., [<i>Min.</i>]	*1873
*Rev. William F. Ulery, Greensburg, [<i>Min.</i>]	*1903
*Rev. Asa H. Waters, Jumonville, [<i>Min.</i>]	*1903

1854

*Prin. Legh R. Baugher, Indianapolis, Ind., [<i>Ed.</i>]	*1899
Rev. Amos Copenhaver, 3415 Beechwood Boul., Pittsburg, [<i>Min.</i>]	
*Rev. Lewis Hippee, Greenville, [<i>Min.</i>]	*1901

*Rev. Adam Long, Rajahmundry, India, [<i>Miss.</i>]	*1866
*John T. Ross, Schellsburg.	*1909
*Ezra Shieldknecht, Funkstown, Md., [<i>Ed.</i>]	*1899
*George W. Schmucker, Philadelphia, [<i>Ins.</i>]	*1905
Rev. James M. Schreckhise, Raphine, Va., [<i>Min.</i>]	
*Daniel J. Trittle, Gettysburg.	*1871
*Erias Unangst, D.D., Hollidaysburg, [<i>Miss.</i>]	*1903
*Rev. Jacob F. Wampole, Shamokin, [<i>Min.</i>]	*1906
*Rev. Josiah Zimmerman, Lincoln, Neb., [<i>Min.</i>]	*1908

1855

*Rev. John I. Burrell, Brooklyn, N. Y., [<i>Min.</i>]	*1877
*Prof. Luther H. Croll, Sc.D., Gettysburg, [<i>Ed.</i>]	*1889
*Rev. J. Frazier, Portland, Ind.	*1885
*Samuel A. Holman, D.D., 4536 N. Uber St., Phila., [<i>Min.</i>]	*1907
Prof. Eli Huber, D.D., Gettysburg. [<i>Ed.</i>]	
*John A. Kunkelman, D.D., Greenville, [<i>Min.</i>]	*1908
*Wm. F. Paxton, D.D., Waterloo, Ia.	*1895
*Hon. Jacob Rinehart, M.D., Frizzleburg, Md., [<i>Med.</i>]	*1907
*James W. Shuey, M.D., Sherman, Texas, [<i>Med.</i>]	*1882
*Prof. Joseph R. Titzel, Greenville, [<i>Ed.</i>]	*1898

1856

Samuel Aughey, Ph.D., LL.D., Spokane, Wash., [<i>Ed.</i>]	
*John S. Cutter, New York City, [<i>Law.</i>]	*1863
*Prof. T. W. Dosh, D.D., Burkittsville, Md., [<i>Min., Ed.</i>]	*1889
*Rev. Webster Eichelberger, Smithville, W. Va., [<i>Min.</i>]	*1886
*Rev. Samuel M. Firey, Roanoke, Va., [<i>Min.</i>]	*1906
*William Hay, York, [<i>Law.</i>]	*1883
*Hon. Adam Hoy, Bellefonte, [<i>Law, Jud.</i>]	*1887
*Rev. Benjamin E. Kramlich, Kutztown, [<i>Min.</i>]	*1900
*Henry W. Kuhns, D.D., Omaha, Neb., [<i>Min.</i>]	*1899
Rev. George W. Leisher, 589 E. 105th St., Cleveland, O., [<i>Min.</i>]	
Rev. George A. Long, Roanoke, Va.	
*Daniel E. L. Mehring, Taneytown, Md.	*1856
*Daniel R. Miller, Pine Grove, [<i>Mining.</i>]	*1902
*C. Philip Muhlenberg, Reading, [<i>Law.</i>]	*1872
*J. Cassat Neely, Gettysburg, [<i>Law.</i>]	*1874
*Rev. Prof. Wm. M. Reiley, Ph.D., Allentown, [<i>Ed.</i>]	*1892
John W. Schwartz, D.D., Worthington, [<i>Min.</i>]	
Edward H. M. Sell, M.D., White Plains, N. Y., [<i>Med.</i>]	
*Robert L. Sibbet, M.D., Carlisle, [<i>Med.</i>]	*1898
*William M. Weidman, M.D., Reading, [<i>Med.</i>]	*1902

- *Jacob Weidman, D.D., Clifton Heights, [*Min.*] *1910
 *Rev. Benj. D. Zweizig, Reading, [*Min.*] *1903

1857

- *Prof. H. Louis Baugher, D.D., Gettysburg, [*Ed.*] *1899
 Louis A. Bikle, D.D., Concord, N. C., [*Min.*]
 Prof. Jonathan R. Dimm, D.D., Selinsgrove, [*Ed.*]
 Rev. John W. Early, 931 N. Third St., Reading, [*Min.*]
 *John A. Earnest, D.D., Mifflinburg, [*Min.*] *1904
 *Rev. Henry R. Fleck, Huntingdon, [*Min.*] *1908
 *David M. Gilbert, D.D., 311 Walnut St., Harrisburg, [*Min.*] *1905
 *Prof. Luther A. Gotwald, D.D., Springfield, O., [*Ed.*] *1900
 *Rev. Cyrus S. Hoffa, Myerstown, [*Min.*] *1865
 *Joseph M. Hughes, Dublin, Ind. *1891
 Rev. Cor. L. Keedy, M.D., Hagerstown, Md., [*Ed.*]
 *W. Hamilton Myers, Hanover, [*Law.*] *1892
 George F. Schaeffer, D.D., R. R. 4, Spartansburg, S. C., [*Min.*]
 *Rev. Christian D. Ulery, Lionville, [*Min.*] *1862
 *Calvin S. Walker, Paradise, [*Ed.*] *1865
 George J. Weaver, Gettysburg, [*Merc.*]

1858

- *Col. David M. Armor, Pittsburg, [*Fin.*] *1881
 *Rev. Solomon J. Berlin, Tremont, [*Min.*] *1868
 *Maj. Thomas B. Burrowes, U. S. A., Chicago, Ill. *1885
 *Abram R. Horne, D.D., Allentown, [*Jour.*] *1902
 Elias S. Johnston, D.D., Elk Lick, [*Min.*]
 *Rev. Prof. Jacob B. Kershner, 7 Cedar St., Bellevue, [*Ed.*] *1909
 *Rev. Edward J. Koons, Pottsville, [*Min.*] *1890
 *Jonathan H. Kreitzer, Columbus, Tex., [*Ed.*] *1864
 Rev. John Q. McAtee, 1714 S. 15th St., Philadelphia, [*Min.*]
 Rev. Victor Miller, Leitersburg, Md., [*Min.*]
 *Rev. Jacob B. Rath, Bethlehem, [*Min.*] *1885

1859

- *Daniel J. Benner, Washington, D. C., *1885
 *T. B. Blauvelt, Saddle River, N. J. *1859
 George M. Brinkerhoff, Springfield, Ill., [*Law.*]
 *Rev. John W. Ebert, Fairfield, Ia., [*Min.*] *1867
 William R. Eyster, Barnes, Kan., [*Law.*]
 *John G. Gøttman, D.D., Allegheny City, [*Min.*] *1905
 *Abraham L. Guss, Washington, D. C., [*Jour.*] *1887
 Rev. Theophilus Heilig, Shawnee, [*Min.*]

- *Prin. William Kechler, Fayetteville, [*Ed.*] *1885
 *Rev. Ferdinand C. H. Lampe, Williamsport, [*Min.*] *1884
 *James H. Moore, Carlisle. *1881
 *Thaddeus S. Warren, Washington, D. C., [*Gov.*] *1868
 Arthur J. Weise, 846 President St., Brooklyn, N. Y. [*Hist.*]
 *Rev. Franklin B. Wolf, Rebersburg, [*Min.*] *1885

1860

- Rev. Benjamin F. Apple, Stroudsburg, [*Min.*]
 *William H. Dill, Philadelphia, [*Fin.*] *1906
 *Rev. Josiah B. Fox, Slatington, [*Min.*] *1901
 *Rev. Washington V. Gotwald, Lancaster, [*Min.*] *1869
 *Rev. Johnson R. Groff, Doylestown, [*Min.*] *1904
 *Rev. Abraham H. Groh, Myerstown, [*Min.*] *1866
 Reuben M. Keedy, Hagerstown, Md., [*Merc.*]
 *Alexander A. Lechluder, Hagerstown, Md., [*Merc.*] *1898
 *Rev. Hans J. H. Lemcke, Franklin, [*Min.*] *1900
 *Prin. John F. McCreary, Shippensburg, [*Ed.*] *1891
 *William Reed, Lairdsville. *1860
 Rev. John M. Rice, East Stroudsburg.
 *Prof. Matthias H. Richards, D.D., Allentown, [*Ed.*] *1898
 Charles H. Schaeffer, 524 Washington St., Reading, [*Law.*]
 *Rev. Pres. David L. Tressler, Ph.D., Carthage, Ill., [*Ed.*] *1880
 J. Warren Tryon, 44 S. Third St., Reading, [*Law.*]
 Rev. James Q. Waters, 5173 Cypress St., Pittsburg, [*Min.*]
 Hon. Jacob B. Weidle, 136 N. Fifth St., Reading, [*Law. Jour.*]
 Robert Weidensall, Chicago, Ill., [*Gen. Sec. Y. M. C. A.*]

1861

- I. Calvert Burke, D.D., 1301 N. Bond St., Baltimore, Md., [*Min.*]
 Rev. Joshua Cowpland, Concordville, [*Min.*]
 Leonard Groh, D.D., 2049 N. 20th St., Omaha, Neb., [*Min.*]
 *Jacob C. Hankey, Arlington, N. J., [*Merc.*] *1905
 John P. Hentz, D.D., Dayton, O., [*Min.*]
 H. C. Holloway, D.D., 1603 N. Second St., Harrisburg, [*Min.*]
 Mahlon C. Horine, D.D., Congress Heights, Washington, D. C., [*Min.*]
 *Jeremiah W. Hoy, M.D., Bloomville, O., [*Med.*] *1892
 Charles E. Humphrey, M.D., Bethlehem, [*Med.*]
 Andrew T. Kistler, Loysville.
 Rev. J. H. A. Kitzmiller, 6213 Station St., Pittsburg, [*Min.*]
 Rev. Christopher W. Knauff, Cleveland, Tenn., [*Min.*]
 *Charles E. Murray, D.D., Philadelphia, [*Min.*] *1899
 Henry Plowman, 8528 Lowe Ave., Chicago, Ill., [*Fin.*]

- Junius B. Remensnyder, D.D., LL.D., 900 Madison Ave.,
New York City, [*Min.*]
- *T. Duncan Renfrew, Fayetteville. *1892
- Prof. Henry W. Roth, D.D., Greenville
- *M. Luther Ruthrauff, Soldiers' Home, Bath, N. Y. *1908
- *Rev. Abel Thompson, Ursina, [*Min.*] *1881
- *John C. Uhler, New York City, [*Fin.*] *1901
- J. Howard Wert, 912 N. Second St., Harrisburg. [*Ed.*]
- *Rev. John R. Williams, Chicora, [*Min.*] *1897

1862

- Hon. Frank E. Beltzhoover, M.C., Carlisle, [*Law.*]
- *John W. Croll, York. *1862
- Martin L. Culler, D.D., Bedford, [*Min.*]
- *Rev. Albert Ebeling, Washington, D. C., [*Gov.*] *1865
- Rev. Samuel A. K. Francis, 1431 S. 10th St., Phila., [*Min.*]
- Prof. Henry E. Jacobs, D.D., LL.D., Mt. Airy, Phila., [*Ed.*]
- *Henry H. Keedy, Hagerstown, Md., [*Law.*] *1893
- Rev. Jacob B. Keller, R. R. 3, Hagerstown, Md., [*Min.*]
- Rev. Duncan M. Kemerer, 7422 Idlewild St., Pittsburg. [*Min.*]
- *Rev. Frederick Klinefelter, York, [*Min.*] *1903
- *Charles V. S. Levy, Frederick, Md., [*Law.*] *1895
- *Alexander M. Miller, M.D., Johnstown, [*Med.*] *1877
- *John T. L. Sahm, Wilkes-Barre, [*Law.*] *1906
- Jonathan Sarver, D.D., Derry, [*Min.*]
- *Augustus D. Schaeffer, Westminster, Md., [*Law.*] *1877
- Claudius G. Treichler, M.D., Honeybrook, [*Med.*]
- Prof. Rufus B. Weaver, M.D., Sc.D., Hahn. Med. C., Phila., [*Ed.*]
- *Hon. Mason Weidman, Pottsville, [*Law. Jud.*] *1897

1863

- *Joseph P. Blymyer, Harrisburg. [*Merc.*] *1885
- Rev. Michael Colver, Orangeville, Ill., [*Min.*]
- *Rufus E. Culp, Gettysburg. *1904
- *Rev. John C. Dizinger, Camden, N. J., [*Min.*] *1903
- *Rev. F. Adam Fair, Agency City, Ia., [*Min.*] *1865
- *Orlando L. Fegley, M.D., Allentown, [*Med.*] *1900
- *George W. Frederick, Philadelphia. [*Merc.*] *1904
- *Rev. Samuel E. Furst, Schellsburg. [*Min.*] *1894
- *Prof. Davis Garver, Ph. D., Allentown. [*Ed.*] *1896
- Rev. S. A. Hedges, Middletown, Md., [*Min.*]
- *Luther D. Jacobs, M.D., Emporia, Kan., [*Med.*] *1904
- Eugene L. Rowe, Emmitsburg, Md., [*Law.*]

- Hon. Samuel D. Schmucker, LL.D., 1712 Park Ave., Baltimore,
Md., [*Law, Jud.*]
J. Lawson Smith, D.D., 6024 Station St., Pittsburg, [*Min.*]
*Rev. William H. Steck, Coatesville, [*Min.*] *1903
*Prof. Edmund J. Wolf, D.D., LL.D., Gettysburg, [*Ed.*] *1905

1864

- Hon. George M. Beltzhoover, Shepherdstown, W. Va., [*Law.*]
Rev. John J. Cressman, Kutztown, [*Min.*]
*Rev. Philip Doerr, Adamsburg, Westmoreland Co., [*Min.*] *1908
*Charles A. Heilig, Lutherville, Md. *1870
J. Clinton Hill, Williamsport, [*Law.*]
*John M. Krauth, Gettysburg, [*Law. Jour.*] *1890
Edmund W. Meisenhelder, M.D., York, [*Med.*]
*Francis Muhlenberg, M. D., Philadelphia, [*Med.*] *1894
Thomas C. Pritchard, D.D., Phillipsburg, N. J., [*Min.*]
*Frank Richards, D.D., Zanesville, O., [*Min.*] *1904
*Pres. Theodore L. Seip, D.D., Allentown, [*Ed.*] *1903
*Jacob D. Shindel, D.D., Allentown, [*Min.*] *1908
Rev. Horatio J. Watkins, Lockport, N. Y., [*Min.*]

1865

- Prof. Thos. C. Billheimer, D.D., Gettysburg, [*Ed.*]
Matthew G. Boyer, D.D., 2501 N. College Ave., Philadelphia.
Hon. Constantine J. Erdman, M.C., Allentown, [*Law.*]
*Rev. Zenas Henry Gable, Reading, [*Min.*] *1909
*Rev. Samuel S. Henry, Smallwood, Md., [*Min.*] *1901
*Rev. Joseph Hillpot, Allentown, [*Min.*] *1896
*Jesse C. Koller, D.D., Hanover, [*Min.*] *1907
Jacob A. Krumrine, M.D.
Pres. H. W. McKnight, D.D., LL.D., Gettysburg, [*Ed.*]
Samuel F. Rathvon, 1442 Humboldt St., Denver, Col., [*Fin.*]
*Wm. M. Rightmyer, Reading, [*Law.*] *1888
John M. Young, Williamsport, [*Law.*]
Hon. Edward Danner Ziegler, M.C., York, [*Law.*]

1866

- J. Artley Beeber, Williamsport, [*Law.*]
Rev. Prof. P. M. Bickle, Ph.D., Gettysburg, [*Ed.*]
Rev. Herman S. Cook, Ambler, [*Min.*]
William H. Gotwald, D.D., LL.D., 3262 Chestnut St., Phila., [*Min.*]
Charles C. Hengerer, 370 Walnut St., Buffalo, N. Y.
Andrew J. Riley, Altoona, [*Law.*]
Thomas W. Saeger, Allentown.

- William C. Schaeffer, D.D., Greenville, Tenn., [*Min.*]
 *Henry L. Ziegenfuss, D.D., Poughkeepsie, N. Y., [*Min.*] *1894

1867

- Charles S. Albert, D.D., 831 N. 63rd St., Philadelphia, [*Jour.*]
 *John G. Blyholder, Philadelphia, [*Min.*] *1868
 Hon. J. Hay Brown, LL.D., Lancaster, [*Law, Jud.*]
 Charles J. Cooper, D.D., Allentown, [*Min.*]
 Jacob R. Custer, 3928 Grand Boul., Chicago, Ill., [*Law.*]
 Robert J. Fisher, Washington, D. C., [*Law.*]
 T. Frank Garver, Salina, Kan., [*Law.*]
 *Hart Gilbert, Gettysburg, [*Ed.*] *1898
 Hon. M. William Jacobs, 213 S. Front St., Harrisburg, [*Law.*]
 *Rev. Daniel K. Kepner, Pottstown, [*Min.*] *1897
 *William E. Parson, D.D., Washington, D. C., [*Min.*] *1905
 Prof. Samuel P. Sadtler, Ph.D., LL.D., 10th and Chestnut Sts.,
 Philadelphia, [*Ed.*]
 Prince H. Schaeffer, Atlantic City, N. J.
 *Rev. Benaiah C. Snyder, Allentown, [*Min.*] *1883
 Jacob J. Weaver, M.D., Uniontown, Md., [*Med.*]

1868

- Prof. Edward S. Breidenbaugh, Sc.D., Gettysburg, [*Ed.*]
 Augustus J. Erdman, Macungie, [*Law.*]
 Preston K. Erdman, Land Title Bldg., Philadelphia, [*Law.*]
 George S. Eyster, B.S., 1874, Ph.D., 1882, 10 Center St., Boston, Mass.
 [*Chem.*]
 A. Stewart Hartman, D.D., 914 N. Carrolton Ave., Balto., Md., [*Min.*]
 John W. Hay, M.D., 1402 N. Third St., Harrisburg, [*Drug.*]
 *Lee M. Heilman, D.D., Harrisburg, [*Min.*] *1897
 *William F. Hill, Gettysburg, [*Eng.*] *1894
 Rev. Robert F. McClean, Mechanicsburg, [*Min.*]
 *Rev. David L. Mackenzie, Lykens, [*Min.*] *1906
 *Jacob Rhone, State College, [*Law.*] *1907
 *Prof. James W. Richard, D.D., LL.D., Gettysburg, [*Ed.*] *1909
 William C. Stæver, Litt.D., 727 Walnut St., Philadelphia, [*Law.*]

1869

- *Horace Alleman, Selinsgrove, [*Law.*] *1908
 Thomas R. Beeber, D.D., Norristown, [*Min.*]
 John J. Brinkerhoff, Met. Life Bldg., Madison Ave., No. 1, New York
 City, [*Law.*]
 Prof. Jacob A. Clutz, D.D., Gettysburg, [*Ed.*]

- Rev. Josiah F. Cressler, North Platte, Neb., [*Min.*]
 *Supt. Frederick R. Feitshans, Springfield, Ill., [*Ed.*] *1886
 John W. Finkbiner, D.D., Colorado Springs, Col., [*Min.*]
 Jacob M. Gross, M.D., York, [*Med.*]
 *Rev. William S. Heindel, Gettysburg, [*Min.*] *1877
 Rev. M. Luther Heisler, 1211 Kittatinny St., Harrisburg.
 Edward T. Horn, D.D., LL.D., 527 Washington St., Reading, [*Min.*]
 James W. Humrichouse, M.D., Hagerstown, Md., [*Med.*]
 *Rev. Jacob Neff, Spring City, [*Min.*] *1896
 Augustus Shultes, Morrisburg, Ontario, Can.
 Joseph A. Tomlinson, 2039 Arch St., Philadelphia.
 *Luther G. Wile, Philadelphia. *1880

1870

- *W. Hamilton Bayly, Washington, D. C., [*Law, Gov.*] *1907
 Rev. David W. Cassat, Corning, Ia., [*Min.*]
 Abraham G. Fastnacht, D.D., Dover, [*Min.*]
 J. Calvin Felty, M.D., Asylum for Insane, Trenton, N. J., [*Med.*]
 *Rev. John T. Gladhill, Conshohocken, [*Min.*] *1902
 *Benj. J. Hickman, Bolington, Va., *1871
 John L. Hill, Jr., Gettysburg, [*Law.*]
 Prof. John A. Himes, Litt.D., Gettysburg, [*Ed.*]
 John L. Kendlehart, Harrisburg, [*Law.*]
 *John L. Kraber, High Point, N. C., [*Law.*] *1909
 *William A. List, Wheeling, W. Va., [*Fin.*] *1908
 Rev. Edmund Manges, Oakland, Md., [*Min.*]
 Frank W. Mehaffey, Chambersburg, [*Law.*]
 Rev. M. Reed Minnich, 5703 Spruce St., Philadelphia, [*Merc.*]
 Frederick M. Ott, 222 Market St., Harrisburg, [*Law.*]
 John M. Radebaugh, M.D., Pasadena, Cal., [*Med.*]
 John M. Reimensnyder, D.D., Milton. [*Min.*]
 Thomas J. Stahle, Gettysburg.

1871

- Prof. Edward F. Bartholomew, D.D., August. C., Rock Island, Ill.,
 [*Ed.*]
 Rev. Samuel E. Busser, 2350 Prospect Ave., Berkeley, Cal.
 J. Samuel Detweiler, D.D., Hodgenville, Ky., [*Min.*]
 William H. Dunbar, D.D., 1900 St. Paul St., Baltimore, Md., [*Min.*]
 M. J. Allen Emory, Frenchtown, N. J. [*Law.*]
 Rev. David Z. Foulk, York Springs, Pa.
 Philip M. Graff, Duluth, Minn., [*Fin.*]
 Charles E. Hay, D.D., 2425 W. North Ave., Baltimore, Md., [*Min.*]

- *William H. Kain, York, [*Law.*] *1883
 Rev. Augustus J. B. Kast, Marietta, O., [*Min.*]
 Rev. Robert H. Kline, Allentown, [*Min.*]
 *Frederick G. Knapp, Martin's Ferry, O. *1873
 Rev. David T. Koser, Arendtsville, [*Min.*]
 Benjamin Kurtz, 215 Woodlawn Rd., Baltimore, Md., [*Law.*]
 *Rev. Walter H. Lilly, Van Wert, O., [*Min.*] *1892
 Rev. George Michael, Mahanomen, Minn., [*Min.*]
 Rev. Samuel Palmer, 726 Ohio St., Lawrence, Kan., [*Ag.*]
 J. McPherson Scott, M.D., Hagerstown, Md. [*Med.*]
 *Henry A. Smeltz, Tarpon Springs, Fla. *1904
 Prof. George D. Stahley, M.D., Gettysburg. [*Ed.*]
 John Wagner, D.D., Hazelton, [*Min.*]
 Rev. Samuel A. Weikert, 448 Van Houten St., Patterson, N.J., [*Min.*]
 Charles M. Wolff, Hanover [*Law.*]

1872

- George N. Acker, M.D., 913 16th St., Washington, D. C., [*Med.*]
 *Rev. J. Croll Baum, Philadelphia, [*Min.*] *1886
 G. Ament Blose, Hamilton. [*Law.*]
 John Brubaker, D.D., Westernport, Md., [*Min.*]
 Rev. Benjamin B. Collins, Meyersdale. [*Min.*]
 Rev. Isaiah B. Crist, German Valley, N. J., [*Min.*]
 *Harrison S. Culp, McAllisterville, [*Ed.*] *1875
 Rev. Samuel A. Diehl, Hanover, [*Min.*]
 Rev. Anthony K. Felton, Magnolia, O., [*Min.*]
 William E. Fisher, D.D., Shamokin. [*Min.*]
 *Rev. George W. Fortney, Suffern, N. Y., [*Min.*] *1909
 *Rev. John W. Friday, Harper's Ferry, W. Va., [*Min.*] *1877
 *John E. Gilbert, M.D., Gettysburg. [*Med.*] *1882
 *Christian Hoover, Smithsburg, Md., *1873
 Rev. Prof. John L. Kistler, Sc.D., Hartwick Seminary, N. Y., [*Ed.*]
 Rev. J. Alfred Koser, Nebraska City, Neb., [*Min.*]
 Rev. John H. H. Leeser, 912 Penn St., Reading, [*Min.*]
 Rev. Daniel M. Moser, Schuylkill Haven. [*Min.*]
 *Legh R. Myers, Bethlehem, [*Law.*] *1895
 Ferdinand W. E. Peschau, D.D., Miamisburg, O., [*Min.*]
 *Rev. John W. Poffinberger, Vandergrift, [*Min.*] *1909
 William K. T. Sahn, M.D., 124 Union Station, Pittsburg, [*Med.*]
 Sylvanus Stall, D.D., 15th and Race Sts., Phila., [*Pub.*]
 Hon. Samuel McC. Swope, Gettysburg, [*Law. Jud.*]
 Rev. John N. Zimmer, Evans, Col., [*Min.*]

1873

- Neander N. Cronholm, Ph.D., 3029 Groveland Ave., Chicago, Ill.,
[Law.]
- William S. Freas, D.D., 1110 Bolton St., Balto., Md., [Min.]
- *Rev. Silas W. Gossler, Philadelphia, [Min.] *1880
- Philip Graif, D.D., Snohomish, Wash., [Min.]
- Joseph F. Hartman, D.D., 1754 N. 25th St., Phila., [Min.]
- *Rev. Daniel M. Lamotte, Woodsboro, Md., [Min.] *1885
- *Edwin H. Leisenring, D.D., Middleburg, [Min.] *1910
- Lemuel L. Sieber, D.D., Gettysburg, [Min.]
- Prof. John A. Singmaster, D.D., Gettysburg, [Ed.]
- William R. Snyder, Indianapolis, Ind., [Ed.]
- Chester H. Traver, D.D., Berne, N. Y., [Min.]
- *George F. Unger, Danville. *1874
- Rev. Francis H. Weaver, Newry, [Chap. U. S. A., (Ret.)]
- Rev. Theodore J. Yost, 477 Central Park, West, New York City.
- Jeremiah Zimmerman, D.D., LL.D., Syracuse, N. Y., [Min.]

1874

- Charles Baum, M.D., Ph.D., 1828 Wallace St., Philadelphia, [Med.]
- Hon. T. Dimmer Beeber, Com. Trust Bldg., Philadelphia, [Law.]
- *James L. A. Burrell, M.D., Williamsport, [Med.] *1891
- Hon. Luther A. Burrell, 2211 Park Ave., Cincinnati, O.
- Alfred A. Dale, Bellefonte. [Law.]
- Clement Dale, Bellefonte, [Law.]
- A. Seiss Downing, Albany, N. Y., [Ed.]
- John H. Ehrehart, 2 Rector St., New York City, [Eng.]
- *Philip T. Ehrehart, New Chester. *1877
- John B. Focht, D.D., Plantville, Conn., [Min.]
- Hon. Henry Wm. Harter, Canton, O., [Law. Jud.]
- Prof. Milton B. Hartzell, M.D., 3644 Chestnut St., Phila., [Ed.]
- James Wm. Kendlehart, Gettysburg, [Fin.]
- Rev. William S. T. Metzger, Glen Gardner, N. J., [Min.]
- Rev. Wilson L. Remsburg, Funkstown, Md., [Min.]
- Rev. Melancthon O. T. Sahn, Avis, [Min.]
- Rev. Frederick W. Staley, 4911 Catherine St., Phila., [Min.]
- Charles M. Stock, D.D., Hanover, [Min.]
- Charles A. Suesserott, Chambersburg, [Law.]
- George E. Titus, M.D., Hightstown, N. J., [Med.]
- *John A. Wirt, D.D., Des Moines, Ia., [Min.] *1908
- Joseph B. Wolff, D.D., Glen Rock, [Min.]

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1875

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John Croll, Middletown.

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*Rev. Martin L. Young, Ph.D., Cumberland, Md., [Min.] *1904

1876

*John S. Alleman, Washington, D. C., [Law.] *1906

Louis H. Clement, Salisbury, N. C., [Law.]

Philip C. Croll, D.D., Beardstown, Ill., [Min.]

*Prof. George R. Freeman, Meadville, [Ed.]

*1898

*Charles H. Graff, M.D., Duluth, Minn., [Med.]

*1899

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*1909

*David Horner, Gettysburg.

*1880

James C. Jacoby, D.D., Boulder, Col., [Min.]

*John F. Kime, New Oxford, N. Dak., [Law.]

*1895

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1877

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Hon. Harry M. Clabaugh, LL.D., Mintwood Place, Washington,

D. C., [Law. Jud.]

- William K. Copenhaver, 6473 Harvard Ave., Chicago, Ill., [*Law.*]
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 George W. Gross, Sc.D., York, [*Ed.*]
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 *John Kline, Bellefonte, [*Law.*] *1898
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 Benjamin K. Miller, 107 Wisconsin St., Milwaukee, Wis., [*Law.*]
 George P. Miller, J. U. D., 102 Wisconsin St., Milwaukee, Wis.,
 [*Law.*]
 C. Augustus Sattler, Goldfield, Nev., [*Mining.*]
 *J. Bion Scott, M.D., Gettysburg, [*Med.*] *1904
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 Rev. Henry Sharp, Manhattan, Kan., [*Min.*]
 *Alter Y. Shindel, Danville. *1878
 Milton H. Stine, Ph.D., 1896, D.D., Lebanon, [*Min.*]
 Rev. Charles S. Trump, Martinsburg, W. Va., [*Min.*]
 Rev. Jonathan A. West, Berrien Springs, Mich. [*Min.*]
 *Henry B. Wile, D.D., Carlisle, [*Min.*] *1899
 John J. Young, D.D., 79 Christopher St., N. Y. City, [*Min.*]

1878

- Rev. John U. Asper, Lemasters, [*Min.*]
 Rev. Albert Bell, 129 East Maple St., York, [*Min.*]
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 Rev. James A. Hartman, 126 Spruce St., Sunbury, [*Min.*]
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 Rev. John F. Mackley, M.D., Fairfield, [*Fin.*]
 Rev. Chambers L. McConnell, Church's Ferry, N. Dak., [*Min.*]
 *Hon. Verus H. Metzger, Williamsport, [*Law.*] *1891
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 Adam Stump, D.D., York, [*Min.*]

1879

- Rev. George S. Diven, Ickesburg, [*Min.*]
 John F. Fahnestock, Watertown, S. Dak.

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1880

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 Rev. Clarence A. Eyler, Waynesboro.
 A. H. Franke Fischer, D.D., 63 N. 4th St., Easton, [*Min.*]
 Rev. Lindley N. Fleck, Nittany, [*Min.*]
 Supt. Daniel Fleisher, Ph.D., 1888, Columbia, [*Ed.*]
 *Rev. Junius B. Fox, Ph.D., 1890, Staunton, Va., [*Min.*] *1900
 *Charles W. Heisler, D.D., Albany, N. Y., [*Min.*] *1909
 Martin P. Hocker, D.D., Steelton, [*Min.*]
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 William E. Stahler, D.D., Lebanon, [*Min.*]
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 Sterling G. Valentine, B.S., 1882, Ph.D., 1886, Gettysburg, [*Chem.*]
 Luther B. Wolff, D.D., 21 W. Saratoga St., Baltimore, Md., [*Miss.*]

1881

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 Raymond F. Forrest, Siloam Springs, Ark., [*Law.*]
 *Rev. Frank R. Kahler, Southington, Conn., [*Min.*] *1894
 Thomas C. Linn, Salisbury, N. C., [*Law.*]
 *Emory L. Loudon, Altoona, Pa. *1900
 Hon. William F. Musser, Salina, Kan., [*Law, Jud.*]
 Robert M. Scott, D.D.S., West Chester.
 Rev. William P. Swartz, Ph.D., 1900, Poughkeepsie, N. Y., [*Min.*]
 Samuel J. Taylor, D.D., Selinsgrove, [*Min.*]

- Ephraim F. Tracy, Westminster, Md., [*Law.*] *1887
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1882

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 W. Warren Weaver, M.D., 6105 Woodland Ave., Philadelphia, [*Med.*]
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 Lakeville, Conn., [*Ed.*],
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 Philadelphia.
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1884

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 Rev. Andrew S. Fichthorn, Norristown, [*Min.*]
 Rev. Cyrus L. Fleck, Reigelsville, [*Min.*]
 Joseph B. Heilman, Jr., M.D., Wilkinsburg, Pittsburg, [*Med.*]
 John S. Kausler, Hagerstown, Md., [*Fin.*]
 Rev. Herman F. Kroh, Pine Grove, [*Min.*]
 Oscar H. Marsh, Glenwood, Ia., [*Drug.*]
 John B. McAllister, M.D., 232 N. Third St., Harrisburg, [*Med.*]
 Harry M. Wolff, Mifflinburg, [*Fin.*]
 Anderson Wolff, Concord, N. C.
 Leander M. Zimmerman, D.D., 424 Hanover St., Balto., Md., [*Min.*]

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 Rev. Daniel R. Becker, Berrysburg, [*Min.*]
 *Edgar I. Brenner, Smithsburg, Md. *1886.
 *Rev. George G. M. Brown, Cumberland, Md., [*Min.*] *1907

William E. Buehler, 222 Drexel Bldg., Philadelphia. [*Ins.*]
 Lewis DeW. Gerhardt, Martinsburg, W. Va., [*Law.*]
 Rev. Henry J. Hapeman, Byers, Col., [*Min.*]
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 Howard M. Heilman, D.D., 208 Herkimer St., Joliet, Ill., [*Min.*]
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 Charles M. McLaughlin, M.D., Greencastle, [*Med.*]
 John E. Melick, East Orange, N. J., [*Law.*]
 Edgar G. Miller, D.D., Columbia, [*Min.*]
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 Prof. Samuel L. Powell, Roanoke, C., Salem, Va., [*Ed.*]
 Charles Reinewald, D.D., Emmitsburg, Md., [*Min.*]
 Rev. Arthur F. Richardson, Grafton, W. Va., [*Min.*]
 William A. Riegel, M.D., Catasauqua, [*Med.*]
 John L. Rothrock, M.D., Larey Arcade, St. Paul, Minn., [*Med.*]
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1886

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 *Harry F. Buehler, Gettysburg. *1907
 Luther DeYoe, D.D., Germantown, [*Min.*]
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 Rev. William L. Leisher, Glasgow, [*Min.*]
 Rev. Shile Miller, Clymer, N. Y., [*Min.*]
 DeW. Clinton R. Miller, M.D., Mason and Dixon, [*Med.*]
 Murray G. Motter, M.D., B.S., 1887, 1841 Summit Ave., Washington,
 D. C., [*Med.*]
 *Harvey H. Rouzer, Baltimore, Md., [*Law.*] *1903
 Thaddeus B. Seigle, *Lieut. U. S. A.*
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- Prof. John G. Traver, D.D., Hartwick Seminary, N. Y., [Ed.]
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 Prof. Victor G. Tressler, Ph.D., D.D., 66 E. Ward St., Springfield, O.,
 [Ed.]

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 Franklin Menges, Ph.D., 1888, York.
 Morris L. Rouzer, Thurmont, Md., [Gov.]

1887

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 Sidney E. Bateman, M.D., Sc.D., 462 N. 52nd St., Phila., [Med.]
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 Rev. Theodore L. Crouse, Sharpsburg, [Min.]
 Rev. Emanuel L. Dreibelbis, Melrose, N. Y., [Min.]
 *Rev. Mosheim R. W. Fishburn, Washington, D. C., [Min.] *1909
 Rev. Prof. James H. C. Fisher, Mount Pleasant, N. C., [Ed.]
 *Rev. Cyrus G. Focht, Dickinson, [Min.] *1893
 Gottlieb Holzapfel, Cleona, [Pub.]
 *Rev. J. A. McDermad, Aspers, [Ag.] *1909
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 *Alten Schmell, Mt. Bethel. *1888
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 Rev. Harry G. Snyder, 218 Jefferson St., Tiffin, O., [Min.]
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1888

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 Silas D. Daugherty, D.D., Av. De Mayo, Buenos Aires, S. A., [Miss.]
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 Rev. John C. Reighard, Blain, [*Min.*]
 *Howard C. Rouzer, Baltimore, Md., *1904
 Howard P. Sadtler, Calvert Bldg., Baltimore, Md., [*Law.*]
 John Weidley, D.D., 138 C. St., S. E., Washington, D. C., [*Min.*]

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 Rev. Cyrus E. Held, Shenandoah, [*Min.*]
 *Rev. David S. Hoover, Piermont-on-the-Hudson, N. Y., [*Min.*] *1905
 Paul W. Kuhns, Omaha, Neb., [*Fin.*]
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 *Ira L. Tipton, Philadelphia, [*Ed.*] *1904
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 Sanford B. Martin, New Haven, Conn., [*Law.*]
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 Rev. Samuel T. Nicholas, Middletown, [*Min.*]
 *Rev. George H. Reen, St. Louis, Mo., [*Min.*] *1906
 Rev. Herman C. Reller, Aspinwall, [*Min.*]
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 Rev. Franz S. Schultz, Pine Grove Mills, [*Min.*]
 Joseph S. Shapley, Brooklyn, N. Y., [*Law.*]
 William B. Small, M.D., 2232 Green St., Philadelphia, [*Med.*]
 *Rev. Luther T. Snyder, Orrstown, [*Min.*] *1904
 Rev. William J. Wagner, New Bloomfield, [*Min.*]
 Frank P. Whitmer, Newport.
 Samuel E. Whitmer, D.D.S., Newport.
 Rev. Noah E. Yeiser, 509 Pembroke Ave., East Lansdowne, [*Min.*]

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 [*Gov.*]
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- Schmucker Duncan, Gettysburg, [*Lit.*]
 Wilton C. Dunlap, D.D., Montoursville, [*Min.*]
 Harry A. Elliott, 416 W. King St., York.
 Garnet Gehr, Chambersburg, [*Law.*]
 *Robert N. Hartman, Ph.D., Golden, Col., [*Ed.*] *1903
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 Luther C. Peter, M.D., 110 S. Nineteenth St., Phila., [*Med.*]
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 *Adam C. Stup, Frederick, Md. *1894
 Rev. M. Luther Tate, Tyrone, [*Min.*]
 Charles W. Walker, Somerset, [*Law.*]
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 Rev. Robert B. Wolf, Kansas City, Kan., [*Min.*]

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1893

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1900

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1904

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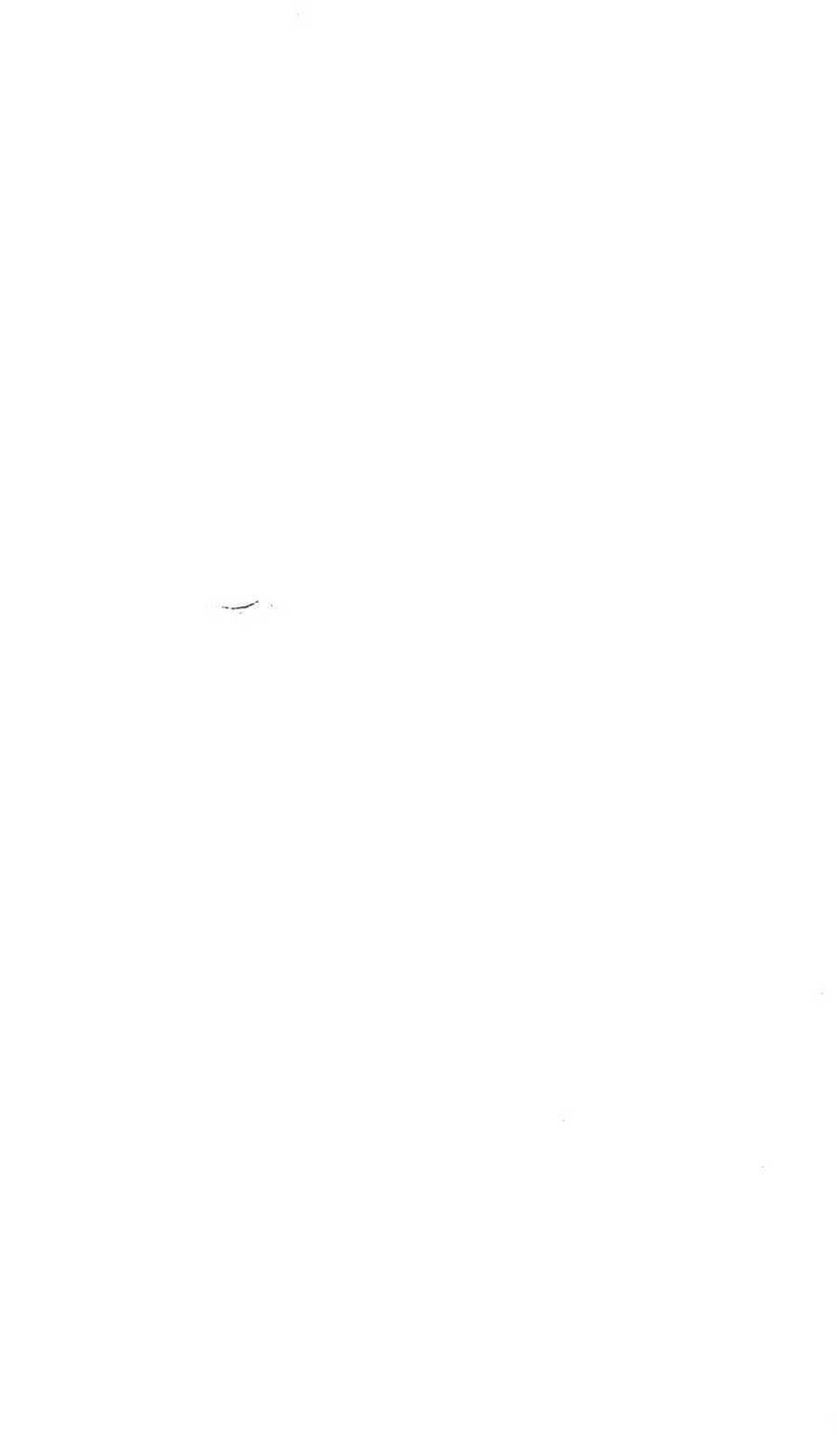
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NOTE.—Information to correct or complete this record will always be gratefully received.

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1910

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COLLEGE CALENDAR—1910-1911

1910

- September 15. Thursday, 8 A. M., College Year begins.
October 20. Thursday, Inauguration of President Granville.
November 23-28. Thanksgiving Recess.
December 21. Wednesday, First Term ends.

1911

- January 4. Wednesday, 7.40 A. M., Second Term begins.
March 28. Tuesday, Noon, Second Term ends.
March 28. Tuesday, Noon, Third Term begins.
April 12. Wednesday, Noon, Easter Recess begins.
April 19. Wednesday, 7.40 A. M., Easter Recess ends.
May 23. Tuesday, Junior Latin Examination for Hassler Prize.
May 29-31. Monday-Wednesday, Final Examination of Senior Class.
June 4. Sunday Morning, Baccalaureate Sermon.
June 4. Sunday Evening, Discourse before Y. M. C. A.
June 5-6. Monday-Tuesday, Entrance Examinations.
June 6. Tuesday, 8 A. M., Meeting of Board of Trustees.
June 6. Tuesday, 10 A. M., Junior Oratorical Contest for Reddig Prize.
June 6. Tuesday Afternoon, Senior Class Day.
June 6. Tuesday Evening, President's Reception.

June 7. Wednesday, 9 A. M., Commencement Exercises.

June 7. Wednesday, 1 P. M., Alumni Collation.

Summer Vacation

September 11-12. Monday-Tuesday, Entrance Examinations.

September 13. Wednesday, 8 A. M., College Year begins.

November 29. Wednesday, Noon, Thanksgiving Recess begins.

December 4. Monday, Noon, Thanksgiving Recess ends.

December 21. Thursday, Noon, Christmas Recess begins.

1912

January 3. Wednesday, 7.40 A. M., Christmas Recess ends.

February 2. Friday, Noon, First Semester ends.

February 5. Monday, 7.40 A. M., Second Semester begins.

April 4. Thursday, Noon, Easter Recess begins.

April 9. Tuesday, Noon, Easter Recess ends.

June 12. Commencement.

HISTORICAL

The Charter of Pennsylvania College was approved April 7, 1832. The opening paragraphs are:

WHEREAS, the literary and scientific institution in Gettysburg, Adams county, in this Commonwealth, known by the name of Gettysburg Gymnasium, is resorted to by a large number of young men from different portions of this state, and elsewhere, and promises to exert a salutary influence in advancing the cause of liberal education, particularly among the German portion of our fellow citizens; therefore,

SECTION 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same, That the Gettysburg Gymnasium be, and hereby is erected into a College, for the education of youth in the learned languages, the arts, sciences and useful literature.

SECT. 2. And be it further enacted by the authority aforesaid, That the style and title of said college shall be "Pennsylvania College of Gettysburg" and that it shall be under the management, direction and government of all the subscribers to the funds of said institution, by whose private contributions the said funds have been raised and its present edifice purchased, to wit: John B. McPherson, Thomas C. Miller, Thomas J. Cooper, Samuel Fahnestock, Samuel S. Schmucker, Ernest L. Hazelius, David F. Schaeffer, John G. Morris, Benjamin Kurtz, William Heim, Charles P. Krauth, Frederick D. Schaeffer, J. George Schmucker, J. F. Heyer, Jacob Martin, Abraham Reck, William Ernst, Jacob Medtard, Lewis Eichelberger, Michael Meyerheffer, Jonathan Ruthrauff, Jacob Crigler, John F. Macfarlane, Robert Goodloe Harper, John Herbst, and their successors, to be elected as hereinafter mentioned.

SEC. 3. And be it further enacted by the authority aforesaid, That the said subscribers and their successors, to be elected as hereinafter mentioned, shall forever hereafter be, and they are hereby erected, established and declared to be one body politic and corporate, with perpetual succession in deed and law, to all intents and purposes, whatsoever, by the name, style and title of "The Patrons of Pennsylvania College in Gettysburg, in the County of Adams."

SEC. 4. And be it further enacted by the authority aforesaid, That the aforesaid "Patrons of Pennsylvania College" and their successors shall have power from time to time to elect from their own number or elsewhere, a board of trustees, twenty-one in number (Provided always, That at least three-fourths of them be selected from among the patrons); and at elections either for patrons, or trustees, or teachers, or other officers, and in the reception of pupils, no person shall be rejected on account of his conscientious persuasion in matters of religion, provided he shall demean himself in a sober manner, and conform to the rules and regulations of the college.

Two unique features in the establishment of colleges appear in the foundation of this college. First, the college in a large measure grew out of the necessity of properly preparing men for the Theological Seminary, established in 1826 at Gettysburg. This purpose has never lessened and to-day the institution regards this as an important feature of its work and offers special opportunities to young men preparing themselves for theological studies.

The other feature is thus stated in the charter:

In addition to the customary professorships in other colleges, there shall be in this institution a German professorship, the incumbent of which shall, in addition to such other duties as may be assigned him by the board, instruct such young men as may resort to the institution for the purpose of becoming qualified to be teachers of those primary schools,

in which according to the Act passed last session, both German and English are to be taught.

While for a number of years there has been no need of German in elementary education—the college has given prominence to the instruction in the German language and literature and also in preparing young men for the teaching profession.

Thus in the foundation of the college the demands of the times were considered and ever since the aim has been to meet the special educational needs of our people.

The college began with no endowment, a small building (now a residence on the south-east corner of Washington and High streets), and a small attendance, but with able instructors who had a well directed enthusiasm for educational work, and a large spirit of self-sacrifice, a combination which commanded success.

Among the founders of the college special mention should be made of S. S. Schmucker, D.D., Professor in the Theological Seminary at Gettysburg, who was the directing spirit in evolving the Gettysburg Gymnasium into a college and who presided unofficially over the college for two years. In the legislature were a number of friends, prominent among them Thaddeus Stevens, the father of the public school system of Pennsylvania. Several money grants were made the college by the legislature, which were largely spent in the erection of the building known as Pennsylvania Hall.

In 1834 Charles Philip Krauth, D.D., was elected President and continued till he became professor in the Theological Seminary in 1850. During this time Pennsylvania Hall was erected (1836-8) and used for recitation rooms, dormitory, President's residence and dining hall. In 1846-7 Linnaean Hall, now the gymnasium, was erected largely through the efforts and labor of the students. In 1850 the Lutheran interest in Franklin College at Lancaster was transferred to Pennsylvania College and used in the endowment of the Franklin Professorship of Greek; this transfer also led to an increase in the number of trustees, who became a self-perpetuating body with life membership.

In 1850 Henry Louis Baugher, D.D., Professor of Greek, was elected President, continuing in office till his death in 1868.

During this period were erected the President's House (1846), Stevens' Hall (1867-8), for the use of the Preparatory Department, and the Professors' residences (1867-8). In 1851-4 the ministerium of Pennsylvania was largely instrumental in gathering funds toward the endowment of the German professorship. In 1864 as the results of a special movement considerable sums of money were obtained, the chief being from Mr. John E. Graeff, class of '43, of Philadelphia, for the establishment of a professorship of the English language and literature and from the Ockershausen brothers of New York, for the endowment of a professorship in Science. In 1868 the will of Mr. Davis Pearson of Philadelphia, provided for certain sums, afterwards added to by his sons, for the endowment of the professorship of Latin.

On the death of President Baugher, Milton Valentine, D.D., class of '50, then a professor in the Theological Seminary, was elected President and continued in the office till he returned to the Theological Seminary in 1884. During this period were erected the McCreary Gymnasium (1872) now the Chemical Laboratory, and the Astronomical Observatory, (1874). The alumni consummated a movement which had been in progress for a number of years in collecting funds for the endowment of an Alumni Professorship which later has been assigned to the department of Mathematics and Astronomy. In 1884 a course of study leading to the degree of Bachelor of Science was first offered.

Harvey Washington McKnight, D.D., class of '65, was elected President in 1884 and continued till his resignation in 1904. This period was marked by the erection of Recitation Hall (1888-9), Brua Chapel (1889-90), the steam plant and water plant, the remodelling of Pennsylvania Hall, the fitting of the McCreary Gymnasium as the chemical laboratory, and the Linnaean Hall as a gymnasium (1889-90). South College was erected in 1897. The will of Mr. William Bittinger of Adams County, in 1887, provided the funds for the endowment of the chair of Intellectual and Moral Science. In 1889 the father and brothers of Charles H. Graff, M.D., class of '76, deceased,

provided the funds for a memorial foundation of a professorship now devoted to Biology and Hygiene. In 1892 Mr. James Strong of Philadelphia, provided a memorial to his wife in the foundation of the Amanda Rupert Strong professorship of the English Bible and Chaplaincy. In 1891-2 a small number of electives were first offered in the Junior and Senior years. The funds for the Nixon Athletic Field were provided by a student movement, the field being first used in 1895.

Samuel Gring Hefelbower, D.D., class of '91, for several years Professor of German, was in 1904 elected President and continued in office till 1910. During this time there were established professorships in Romance Languages and in Physics, the Department of Philosophy also being separated from the presidency, with the addition to the teaching force of assistants in Mathematics, in English, in Physics, and a second assistant in Chemistry. In part the increased expense was met by an increase in the number of students.

In 1910 William Anthony Granville, Ph.D., a member of the mathematical faculty of the Sheffield Scientific School of Yale University, was elected President. The inauguration of the new administrative head of the institution occurred in October 1910 with an enthusiasm which promises large results for the material and intellectual progress of the college. Already in December 1910, the first fruits are realized in the foundation of the Burton F. Blough Professorship of Civil Engineering, the department being named in honor of the largest among several contributors to the fund from Harrisburg, Pa.

The very successful beginnings in the college year of a system of student self-government is in keeping with the constant purpose of the college to develop not only the intellectual growth but the true manhood of its students.

As in the beginning of the college effort was made to meet the special educational needs of the time and of the community, so now the establishment of new courses aims to open the college opportunities to an increasing number of young men, who desire a general college training.

LOCATION

Gettysburg is situated in the beautiful rolling area of the red shale belt of Pennsylvania, with its ridges of intrusive rock. West a few miles is the South Mountain ridge of the Blue Mountains. The situation is healthful and there is a good water supply. The town is readily reached from all directions by the Philadelphia and Reading, and the Western Maryland Railways, which connect with the great railway systems of Pennsylvania and the south.

The community is law abiding and the moral influences are good.

The historic association of Gettysburg with the Civil War gives the location great additional interest. The events of the Battle of Gettysburg are recorded in inscriptions on several hundred monuments and markers, many of these being of large size and of artistic merit. The U. S. Battlefield Commission has made the field accessible by 35 miles of fine avenues. Among the thousands of visitors coming annually to the field, are men of national prominence who often speak to the student body. Such surroundings must develop a love of country and inspire to better citizenship.

BOARD OF TRUSTEES

Elected

1873. Hon. George Ryneal, Jr.....Martinsburg, W. Va.
1890. Hon. Edmund D. Graff.....Worthington
1890. Hon. Samuel McC. Swope.....Gettysburg
1890. William H. Dunbar, D.D.....Baltimore, Md.
1892. Thomas C. Billheimer, D.D.....Gettysburg
1893. John Wagner, D.D.....Hazleton
1894. Charles M. Stock, D.D.....Hanover
1894. Matthew G. Boyer, D.D.....Philadelphia
1896. John B. McPherson, Esq.....Boston, Mass.
1897. John Jacob Young, D.D.....New York, N.Y.
1897. William A. Shipman, D.D.....Johnstown
1898. Henry C. Picking.....Gettysburg
1899. Charles F. Stifel.....Pittsburgh
1899. Henry H. Weber, D.D.....York
1902. Charles Baum, M.D., Ph.D.....Philadelphia
1905. Milton H. Valentine, D.D.....Philadelphia
1906. Samuel G. Hefelbower, D.D.....Princeton, N. J.
1906. George E. Neff, Esq.....York
1907. Luther P. Eisenhart, Ph.D.....Princeton, N. J.
1907. Martin H. BuehlerPhiladelphia
1907. Hon. R. William Bream.....Gettysburg
1907. Frederick H. Bloomhardt, M.D.....Altoona
1907. Alphens Edwin Wagner, D.D.....Altoona
1908. William J. Gies, Ph.D.....New York, N. Y.

1908.	William L. Glatfelter	Spring Forge
1908.	Frank E. Colvin, Esq.....	Bedford
1908.	John F. Dapp.....	Harrisburg
1908.	George B. Kunkle, M.D.....	Harrisburg
1908.	Jacob A. Clutz, D.D.....	Gettysburg
1910.	William A. Granville, Ph.D.....	Gettysburg
1910.	Charles J. Fite.....	Pittsburgh
1910.	Burton F. Blough.....	Harrisburg

Officers

President.....	Hon. Edmund D. Graff
Vice President.....	Hon. Samuel McC. Swope
Secretary.....	Charles M. Stock, D.D.
Treasurer.....	Henry C. Picking

THE FACULTY

- WILLIAM ANTHONY GRANVILLE, PH.D. 3 Campus
President and William Bittinger Professor of Intellectual and
Moral Science
- HARVEY WASHINGTON MCKNIGHT, D.D., LL.D. 204 Carlisle St.
President Emeritus
- JOHN ANDREW HIMES, LITT.D. 130 Carlisle St.
Graeff Professor of English Literature and Political Science
- REV. PHILIP MELANCHTHON BIKLE, PH.D. 2 Campus
Dean and Pearson Professor of the Latin Language and
Literature
- EDWARD SWOYER BREIDENBAUGH, SC.D. 227 Carlisle St.
Ockershausen Professor of Chemistry and Mineralogy
- GEORGE DIEHL STAHLEY, A.M., M.D. Confederate Avenue
Dr. Charles H. Graff Professor of Biology and Hygiene
- HENRY BARBER NIXON, PH.D. 1 Campus
Alumni Professor of Mathematics and Astronomy
- REV. OSCAR GODFREY KLINGER, A.M. 130 Broadway
Franklin Professor of the Greek Language and Literature
- KARL JOSEPH GRIMM, PH.D. 228 Carlisle St.
Professor of the German Language and Literature
- REV. CHARLES FINLEY SANDERS, A.M. 50 Springs Avenue
Professor of Philosophy
- LOUIS ALEXANDER PARSONS, PH.D. 250 Springs Avenue
Professor of Physics

REV. ABDEL ROSS WENTZ, A.M.	Theological Seminary Acting Amanda Rupert Strong Professor of the English Bible and Chaplain
.....*	Professor of the Romance Languages and Literatures
.....*	Burton F. Blough Professor of Civil Engineering
CLYDE BELL STOVER, A.M.	E. Lincoln St.
Instructor in Chemistry	
JAMES ALLEN DICKSON, A.B.	149 Chambersburg St.
Assistant in Chemistry	
FRED GALLAGHER TROXELL, A.B.	27 Hanover St.
Assistant in Mathematics	
FRANKLIN WATTLES MOSER, A.M.	115 Buford Avenue
Assistant in English	
STANLEY THOMAS BAKER	5 East College
Assistant in Physics	
A. J. WHITE HUTTON, A.M., LL.B.	Chambersburg
Lecturer on Jurisprudence	
HENRY WOLF BIKLE, A.M., LL.B.	Philadelphia
Lecturer on Constitutional Law	
REV. ABRAHAM B. VAN ORMER, Pd.D.	Shippensburg
Extension Lecturer on Educational Topics	
REV. CHARLES HENRY HUBER, A.M.	411 Carlisle St.
Principal of Stevens Hall and Professor of Latin and English	

* to be filled in June.

GEORGE MICHAEL RICE, A.B. Vice Principal and Instructor in German and History	42 Stevens Hall
HARVEY SHEELY HOSHOUR, A.B. Instructor in Greek and English	16 Stevens Hall
JOHN ROGERS MUSSELMAN, A.B. Instructor in Mathematics and Science	23 Stevens Hall
MISS MARY HAY HIMES, A.B. Preceptress in Stevens Hall	130 Carlisle St.
MISS SALLIE P. KRAUTH Assistant Librarian	3 Baltimore St.
REV. HERBERT ADRON RINARD, A.M. Registrar and Secretary of the Faculty	28 Chambersburg St.
FRED C. VAIL Physical Director and Athletic Coach	28 Chambersburg St.
MISS RACHEL GRANVILLE Secretary to the President	3 Campus
JOHN WILLIAM WEIMER Proctor	7 Middle College
BERLIN EMPFIELD Proctor	14 South College



COMMITTEES OF THE FACULTY

Class Officers.

Senior Class	Professor Stahley
Junior Class	Professor Sanders
Sophomore Class	Professor Nixon
Freshman Class	Professor Grimm

Library.—President Granville and Professor Grimm.

Bulletin.—Professors Breidenbaugh, Himes, Parsons and Huber,
President Granville, ex officio.

Hour Schedule.—Professors Breidenbaugh and Grimm.

Students' Publications.—Professors Sanders, Grimm and Dean
Bikle.

Supervision of Finance of Students' Publications.—Dean Bikle,
Professors Himes and Breidenbaugh.

Lectures.—Dean Bikle and Professor Wentz.

Advanced Degrees.—Professors Grimm, Bikle and Stahley.

Representative on Athletic Council.—Professor Wentz.

Y. M. C. A. Secretary.—Rev. H. A. Rinard.

Student Council

Charles M. Allabach, '11, Treasurer
 Stanley T. Baker, '11, Chairman Civic Com.
 Earl J. Bowman, '11
 J. Craig Small, '11, President
 Berlin Empfield, '12, Marshal
 Ernest R. Hauser, '12, Vice President
 Charles E. Liebegott, '12, Recording Secretary
 Walter L. Reitz, '13
 Frank E. Smith, '13
 Frank H. Kramer, '14, Corresponding Secretary

ADMISSION

Applicants for admission are required to present evidence of good moral character. An applicant from another school is required to present a certificate of good standing in, and regular dismissal from, the institution which he has left.

Women are admitted as day pupils.

Methods of Admission

Entrance examinations are held on the Monday and Tuesday before the opening of the College year and on the Monday and Tuesday of Commencement Week. The method of admission is either by examination or certificate from approved secondary or high schools or from private instructors. This certificate must state the amount of work done in, and the time given to each subject, with the grades received.

Blank certificates can be obtained from the Registrar.

Each applicant shall pay to the Treasurer of the college a registration fee of \$5.00. On submitting the receipt for this payment to the Registrar the applicant will receive a card, which he will present, with his admission certificate to the head of each department in which he offers entrance subjects. The professor will sign the card stating explicitly the conditions, if any, which are imposed. This card and the certificate, with a statement by the applicant of the group of studies he proposes entering, will be deposited with the Registrar on the first day of the semester.

These records furnish the basis on which the Faculty will determine the class standing of the applicant.

An accurate and thorough entrance preparation is indispensable, in order to receive the full advantage of the college course. Students imperfectly prepared for the class they enter are embarrassed in their future progress and are seldom able to make up their deficiency.

Students will be matriculated after three weeks' residence.

Subjects for Admission

The subjects to be presented for admission to the Freshman class are divided into two groups, from which a total of fourteen (14) units are required.

The subjects of Group A, comprising six (6) units, are required of all students.

From Group B the applicant selects eight (8) units under the conditions stated in connection with each group of college studies on pages 25-27.

The units are based on the requirements of the College Entrance Examination Board.

Group A—(Required of all Candidates)

English..... 3 units

Mathematics.

A	Arithmetic	} 1 unit
B	Algebra	
C	Plane Geometry .....		1 unit

Geography, Political and Physical 1 unit

Group B—(Elective)

Greek.

A	Grammar and four books of Xenophon.....	2 units
B	Composition, three books of Homer, and eight translation	1 unit

Latin.

A	Grammar and four books of Caesar	2 units
B	Composition and six books of Cicero.....	1 unit
C	Six books of Vergil	1 unit

German.

Two years 2 units

French.

Two years 2 units

History.

United States	1 unit
England	1 unit
Ancient	1 unit
Mediaeval	1 unit

Chemistry.

One year	1 unit
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Physics.

One year	1 unit
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Botany.

One year	1 unit
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ADMISSION SUBJECTS IN DETAIL

English

In English the following books, recommended by the National Conference on Uniform Entrance Requirements, will be required:

A Reasonable familiarity with the substance of the work:

For 1911 and 1912 the following are preferred, though the alternatives are accepted:

Shakespeare's *Merchant of Venice* and *Julius Caesar*; Addison's *Sir Roger de Coverley Papers*; Goldsmith's *Deserted Village*; Scott's *Ivanhoe* and *Lady of the Lake*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *Passing of Arthur*; Ruskin's *Sesame and Lillies*.

B More careful and specific study:

For 1911 and 1912:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Washington's *Farewell Address*; Webster's *First Bunker Hill Oration*; Carlyle's *Essay on Burns*.

The candidate will be required to present evidence of a general knowledge of the subject matter and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics designed to test the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books. Questions involving the essentials of English Grammar and the four fundamental principles of Rhetoric will be part of the examination.

No candidate will be accepted in English whose work is notably deficient in spelling, punctuation, idiom, or division into paragraphs.

Mathematics

A Arithmetic complete including the Metric System.

B Algebra. The four fundamental operations for rational algebraic expression; factoring, determination of the highest common factor and least common multiple by factoring; fractions, involution, evolution, radicals and imaginary quantities. Equations of the first and second degree, ratio and proportion, progressions; binomial theorem for positive integral exponents, and permutations and combinations limited to simple cases.

C Plane Geometry. Five Books. Demonstration of theorems and constructions, including rectilinear figures, circles, proportional lines and similar figures; comparison and measurement of surfaces, including triangles, regular polygons and circles; maxima and minima; originals.

Political and Physical Geography

The requirement in Political Geography is met by any good text-book, in Physical Geography or Physiography by any text-book equivalent to Gilbert and Brigham's Introduction to Physical Geography, Davis' Elementary Physical Geography or Tarr's New Physical Geography.

Greek

A1 Grammar. The candidate must have familiarized himself with the essentials of grammar, namely, the inflections of substantives and verbs; the syntax of cases, and of the moods and tenses of the verb; the simple rules for the composition and derivation of words; the structure of sentences with particular regard to conditional and relative sentences, indirect discourse, and final clauses.

A2 Xenophon. The first four books of the Anabasis.

B1 Prose Composition. The requirements in prose composition involve the ability to translate into idiomatic Greek, continuous narrative based on Xenophon's Anabasis. Book II, and other Attic prose of similar difficulty. Due regard must be paid to the principles and practice of accentuation.

B2 Homer. The first three books of the Iliad (omitting II, 494-end) or of the Odyssey, including the Homeric forms, constructions and prosody.

B3 Unseen Translation. One of the most important assets which a student can bring to the study of college Greek is the ability to read easily at sight passages of equal difficulty with the Anabasis or the Hellenica. For this purpose he should secure as a working vocabulary, the principal words in Xenophon and the three books of Homer.

Latin

A1 Grammar. Allen and Greenough's preferred.

A2 Caesar's Gallic War, Books I-IV.

B1 Prose Composition, including the translation of English passages on Caesar and Cicero.

B2 Six Orations of Cicero, including at least two against Catiline, and the one for Archias, and the one for the Manilian Law.

C Vergil's Aeneid, Books I-VI, and so much prosody as relates to Latin versification in general and the dactylic hexameter in particular.

Equivalents will be accepted for work done in Sallust or Ovid or other authors of equal rank.

German

The requirements in German presuppose a systematic course extending over at least two years of school work.

The candidate is expected to be able to pronounce German clearly and distinctly. He must possess an accurate knowledge of the rudiments of grammar, and should have acquired an elementary German vocabulary. He should be able to translate easy prose and poetry, put into German simple English sentences taken from the language of every-day life and also easy selections from English narrative prose.

French

The requirements in French are similar to those in German, including ability to pronounce French accurately, to read easy French prose, to put into French simple English sentences taken from the language of every-day life and also easy selections from English narrative prose, and a good knowledge of the rudiments of French grammar.

History

A United States. Montgomery's *Leading Facts of American History*, or its equivalent.

B England. Walker's *Essentials of English History*, or its equivalent.

C Ancient. Myers' *Ancient History*, or its equivalent.

D Mediaeval and Modern. Myers' *Mediaeval and Modern History*, or its equivalent.

Chemistry

The candidate should have such knowledge of the general principles of the science and of the properties of the more important elements as are obtained by a careful study of a text-book of the scope of Remsen's *Introduction to the Study of Chemistry*, Briefer Course.

The pupil should have performed in the laboratory experiments in number and general character the equivalent of those given in Remsen's *Introduction*. The record of this work must be contained in a note book describing in the pupil's own words the materials used, the apparatus employed (with drawings), the changes occurring and the resulting products with the conclusions properly drawn from the phenomena observed.

This note book must be presented bearing an endorsement by the instructor "that this note book is a true and original record of experiments actually performed by — in — school during the year —."

Physics

A good high school course, using any standard high school text, covering the simple principles of Physics, descriptive and experimental rather than mathematical, including not less than three class periods and two hours of laboratory work per week for one year. A high school or preparatory course in Physics, laying emphasis on mathematical formulæ is not desirable.

Botany

A teacher's certificate showing that a full year of four, one-hour periods a week were devoted to text-book and laboratory study of this subject with the aid of Bergen's *Essentials of Botany* or some other standard book of equal merit. Drawings and note books are required.

ADVANCED STANDING

A candidate for advanced standing, in addition to the foregoing studies, is examined in the various subjects which the class he proposes to enter has studied.

No one is admitted to the Senior class after the beginning of the Senior year.

PARTIAL COURSE STUDENTS

Persons so situated that they are not able to pursue a course of study leading to a degree are admitted as partial course students in such subjects as examination may show that the applicant is prepared to pursue with advantage. Such student shall not have less than fourteen units weekly.

Students of the Theological Seminary are admitted to single courses in the college.

The Faculty may also admit to single courses such applicants as have special qualifications for the subjects they desire to pursue.

THE GROUP SYSTEM

The courses of study in the college are arranged in groups. These groups are of equal value in the mental training of the student. This arrangement accomplishes several purposes. It enables the student to select those subjects of study which are of special value in preparation for subsequent professional study or business. It enables the college to provide for young men who do not wish to enter on the older college courses of study. It provides in each group for a general training and broad culture and at the same time requires the student not to specialize but to concentrate a fair portion of his time and energy on one or two related subjects. This gives a fuller training of the mental powers than comes from the more diffused and often aimless selection of studies in a too largely elective system.

Each group of studies is stated somewhat in detail.

Besides these groups of unprofessional courses, provision has recently been made, by the liberality of certain friends, for the establishment of courses in Civil Engineering and in Municipal Engineering.

Period and Unit

In the statement of courses a period, unless otherwise specified, is a weekly exercise for one year. A unit of college work consists of the equivalent of a weekly exercise, either a recitation, a lecture, a laboratory period of two and a half or three hours or an assignment of work on which an examination is held. A lecture having connected with it two laboratory hours counts as one unit and a half.

Group I. Greek and Latin

Entrance requirements are English, Mathematics, Physical Geography, Greek, A, B, Latin, A, B, C, and one elective unit.

This group is largely based on the long established classical curriculum, not however requiring so large an amount of the ancient languages, thus giving an opportunity for further study in those languages or in other subjects.

This group is specially recommended for those intending to enter the ministerial or legal professions.

These studies lead to the degree of Bachelor of Arts.

Group II. Latin and Modern Languages

Entrance Requirements. English, Mathematics, Physical Geography, Latin, A, B, C, German or French or Greek A, History one unit, and one elective unit.

In this group the emphasis is laid on the modern languages and provides for those who wish to make a special study of them.

This group is well adapted to preparation for legal or literary pursuits.

These studies lead to the degree of Bachelor of Arts.

Group III. Latin and Chemistry or Physics

Entrance Requirements. English, Mathematics, Physical Geography, Latin A, B, C, German or French, History one unit, and one unit elective.

In this group emphasis is laid on Chemistry and Physics with the requirement that the student shall give special attention to one of these subjects. The literary training is given by a continuance of Latin during the Freshman year with sufficient amount of time devoted to the modern languages to enable the student to obtain a good command of these languages.

This and the following group are recommended to those who intend to enter on scientific professional studies including electrical engineering or to engage in manufacturing or commercial pursuits, or who propose to teach in these subjects.

These studies lead to the degree of Bachelor of Science.

Group IV. Modern Language and Chemistry or Physics

Entrance Requirements. English, Mathematics, Physical Geography, two languages other than English, German, French or Latin A, B, and four elective units (if Latin is offered three) of which not more than two can be in Science.

This group is the same as Group III, except that modern languages entirely replace Latin, and has the same purpose.

These studies lead to the degree of Bachelor of Science.

Group V. Biology, Chemistry and Physics

Entrance Requirements. English, Mathematics, Physical Geography, two languages other than English, German, French or Latin A, B, and four elective units (if Latin is offered three) of which not more than two can be in Science.

In this group the student obtains an acquaintance with each of the great divisions of scientific study and it is recommended specially to those who intend to enter on medical studies or to teach general science.

These studies lead to the degree of Bachelor of Science.

Group VI. Mathematics and Modern Languages

Entrance Requirements. English, Mathematics, Physical Geography, two languages other than English, German, French or Latin A, B, and four elective units (if Latin is offered three) of which not more than two can be in Science.

In this group emphasis is laid on mathematical studies and it is specially recommended to those who intend to teach mathematics or to engage in civil or municipal engineering studies.

The mathematical portion of this group can be taken as electives in Group I, by transferring the Physics of the group to Senior year.

These studies lead to the degree of Bachelor of Science.

Group VII. Commerce and Finance

Entrance Requirements. English, Mathematics, Physical Geography, German, French and History A, B, C, D. Commercial Arithmetic may be offered as a substitute for Ancient History.

This group is arranged to meet the needs of those who do not wish to pursue general scientific or literary studies but desire to prepare themselves for commercial or financial pursuits.

These studies lead to the degree of Bachelor of Science.

Civil Engineering

Courses in Civil Engineering are offered for the first time in 1911-12, and are described on pages 62-67.

Group I. Greek and Latin

Freshman Year

- GREEK 1, 2. *Three periods.*
Oratory. History: Herodotus, Thucydides.
- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

Sophomore Year

- GREEK 3, 4, 5. *Three periods.*
Education, Epic and Lyric Poetry.
- LATIN 4, 5, 6. *Three periods.*
Cicero: De Amicitia or De Natura Deorum, Horace: Satires, De Arte Poetica, Tacitus.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- GERMAN B. *Three periods.*
Grammar, Composition, Translation.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

Junior Year

- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- GERMAN 1 or 2. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private reading, (or Classics).
- Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 3, 7. *Two periods.*
Logic; Ethics.
- PHYSICS 1 or 1a. *Three lectures with laboratory work.*
General Physics.
- ELECTIVES to aggregate at least *four units.*

Senior Year

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- PHILOSOPHY. *Four periods.*
Theism, and from Courses 4-9.
- COMPOSITION and SPEAKING *throughout the four years.*
- ASTRONOMY. *Two periods.*
- ELECTIVES to aggregate at least *six units.*

Group II. Latin and Modern Languages

Freshman Year

- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- *GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- One { BIOLOGY 1, 2, 3.
General Biology, Zoology.
CHEMISTRY 1.
General Chemistry.
PHYSICS 1 or 1a.
General Physics.
Three lectures and six laboratory hours.

Sophomore Year

- LATIN 4, 5, 6. *Three periods.*
Cicero: De Amicitia or De Natura Deorum, Horace: Satires, De Arte Poetica, Tacitus.
- GERMAN 2. *Three periods.*
Classics, Private Reading.
(Or German 1).
- FRENCH 1. *Three periods.*
Grammar, Composition, Translation, Modern Prose, Private Reading.
(Or French A).
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

Junior Year

- GERMAN 4. *Three periods.*
Epochs of German Literature; Collateral Reading.
(Or German 2).
- FRENCH 2. *Three periods.*
Classics, Private Reading.
(Or French 1).
- ENGLISH 7-11. *Four periods.*
Nineteenth Century Prose, Nineteenth Century Novel, The Short Story, Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES of CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 7. *Two periods second semester.*
Ethics.
- ELECTIVES to aggregate at least *three units.*

Senior Year

- POLITICAL SCIENCE 2. *Three periods.*
Economics. International Law.
- MODERN LANGUAGES. *Six periods.*
Advanced Courses.
- COMPOSITION and SPEAKING *throughout the four years.*
- ELECTIVES to aggregate at least *six units.*

* Students offering Greek for admission will take the German A, elementary course.

Group III. Latin and Chemistry or Physics

Freshman Year

- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

Sophomore Year

- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- GERMAN 2. *Three periods.*
Classics, Private Reading.
Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including necessary class exercises.*
Qualitative Analysis.
- PHYSICS 1. *Three lectures and laboratory work.*
General Physics.

Junior Year

- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- GERMAN 3. *Three periods.*
Scientific Reading.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 7. *Two periods second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including class work.*
Quantitative Analysis.
- PHYSICS 2, 3. *Three lectures and three to five laboratory hours.*
Advanced General Physics.
- ELECTIVES to aggregate at least *two units.* (See note after Senior subjects).

Senior Year

- POLITICAL SCIENCE 2. *Three periods.*
Economies, International Law.
- ELECTIVES to aggregate at least *twelve units*, Chemistry or Physics being the major subjects. If CHEMISTRY is the major subject at least *six units* must be in that subject. If PHYSICS is the major subject at least *three units* must be in that subject and MATHEMATICS 5 is advised in Junior year.
- COMPOSITION and SPEAKING *throughout the four years.*

Group IV. Modern Languages and Chemistry or Physics

Freshman Year

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- *FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

Sophomore Year

- GERMAN 2. *Three periods.*
Classics, Private Reading.
(Or German 1).
- Or
- FRENCH 2. *Three periods.*
Classics, Private Reading.
(Or French 1).
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including the necessary class work.*
Qualitative Analysis.
- PHYSICS 1. *Three lectures and laboratory work.*
General Physics.

Junior Year

- GERMAN. *Six periods.*
Scientific Reading, Classical Prose.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES of CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 7. *Two periods second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including the necessary class work.*
Quantitative Analysis.
- PHYSICS 2, 3. *Three lectures and three to five laboratory hours.*
Advanced General Physics.
(See statement under Senior year).

Senior Year

- GERMAN. *Three periods.*
Advanced courses.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- ELECTIVES to aggregate at least *nine units*, Chemistry or Physics being the major subject. If CHEMISTRY is the major subject at least *six units* must be in that subject. If PHYSICS is the major subject *three units* must be in that subject and MATHEMATICS 5 is advised in the Junior year.
- COMPOSITION and SPEAKING *throughout the four years.*

* Students offering Latin for admission will take the French elementary course.

Group V. Biology, Chemistry and Physics

Freshman Year

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- *FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.
- Or
- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

Sophomore Year

- GERMAN 2. *Three periods.*
Classics, Private Reading.
- Or
- FRENCH 2. *Three periods.*
Classics, Private Reading.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including class work.*
Qualitative Analysis.
- PHYSICS 1. *Three lectures and laboratory work.*
General Physics.

Junior Year

- GERMAN 3. *Three periods.*
Scientific Reading.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 7. *Two periods second semester.*
Ethics.
- BIOLOGY 1, 2, 3. *Three lectures and six laboratory hours.*
General Biology, Zoology.
- CHEMISTRY 3. *Nine laboratory hours including class work.*
Quantitative Analysis.
- PHYSICS 4. *Two lectures and laboratory work.*
Medical Physics.

Senior Year

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- BIOLOGY 4, 5, 6. *Three periods.*
Human Anatomy and Physiology, Mammalian Histology, Embryology.
- COMPOSITION and SPEAKING *throughout the four years.*
- ELECTIVES to aggregate at least *nine units.* ORGANIC CHEMISTRY is advised for medical students.

* Students offering Latin for admission will take the French elementary course.

Group VI. Mathematics and Modern Languages

(The Mathematics of this group may be elected in Group I).

Freshman Year

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| <p>GERMAN 1. <i>Three periods.</i>
Syntax, Composition, Conversation, Modern Prose, Private Reading.</p> <p>*FRENCH 1. <i>Three periods.</i>
Grammar, Composition, Dictation, Modern Prose, Private Reading.</p> <p>ENGLISH 1, 2, 3. <i>Two periods.</i>
Rhetoric, History of American Literature.</p> | <p>MATHEMATICS 1, 2. <i>Three periods.</i>
Solid Geometry, Plane and Spherical Trigonometry.</p> <p>HISTORY 1. <i>Two periods.</i>
Political History of Modern Europe.</p> <p>ENGLISH BIBLE 1. <i>One period.</i>
General Introduction.</p> <p>CHEMISTRY 1. <i>Three lectures and six laboratory hours.</i>
General Chemistry.</p> |
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Sophomore Year

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| <p>GERMAN 2. <i>Three periods.</i>
Classics, Private Reading.</p> <p>Or</p> <p>FRENCH 2. <i>Three periods.</i>
Classics. Private Reading.</p> <p>ENGLISH 4, 5, 6. <i>Two periods.</i>
History of English Literature.</p> <p>MATHEMATICS 3, 4. <i>Three periods.</i>
Advanced Algebra, Plane Analytic Geometry.</p> | <p>PHILOSOPHY 1, 2. <i>Two periods.</i>
Psychology, Introduction to Philosophy.</p> <p>CHEMISTRY 2. <i>Nine laboratory hours including the necessary class work.</i>
Qualitative Analysis.</p> <p>PHYSICS 1. <i>Three lectures and laboratory hours.</i>
General Physics.</p> |
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Junior Year

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| <p>GERMAN 3. <i>Three periods.</i>
Scientific Reading.</p> <p>ENGLISH 10, 11. <i>Two periods.</i>
Shakespeare, Milton, Nineteenth Century Poets.</p> <p>EVIDENCES OF CHRISTIANITY. <i>Two periods first semester.</i></p> <p>PHILOSOPHY 7. <i>Two periods second semester.</i>
Ethics.</p> | <p>MATHEMATICS 5, 6, 7. <i>Six periods.</i>
Differential and Integral Calculus, Field Work in Surveying, Mechanical Drawing and Descriptive Geometry.</p> <p>PHYSICS 2, 3. <i>Three lectures and three to five laboratory periods.</i>
Advanced General Physics.</p> |
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Senior Year

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| <p>POLITICAL SCIENCE 2. <i>Three periods.</i>
Economics, International Law.</p> <p>MATHEMATICS 8, 9, 10. <i>Three periods.</i>
Differential Equations, Solid Geometry, Theoretical Mechanics.</p> <p>COMPOSITION and SPEAKING <i>throughout the four years.</i></p> | <p>ASTRONOMY. <i>Two periods.</i></p> <p>ELECTIVES <i>to aggregate at least seven units.</i></p> |
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* Students offering Latin for admission will take the French elementary course.

Group VII. Commerce and Finance

Freshman Year

GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.

FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.

ENGLISH 1; 2, 3. *Two periods.*
Rhetoric, History of American Literature.

MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.

HISTORY 1. *Two periods.*
Political History of Modern Europe.

ENGLISH BIBLE 1. *One period.*
General Introduction.

One { BIOLOGY 1, 2, 3.
General Biology, Zoology.
CHEMISTRY 1.
General Chemistry.
PHYSICS 1 or 1a.
General Physics.
Three lectures and six laboratory hours.

Sophomore Year

GERMAN 2. *Three periods.*
Classics. Private Reading.

Or

FRENCH 2. *Three periods.*
Classics. Private Reading.

ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.

MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.

PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

FINANCE. *Two periods.*
Theory of Account, Theory of Investments.

ELECTIVES to aggregate at least *three units.*

Junior Year

GERMAN. *Three periods.*
Advanced Courses.

Or

FRENCH. *Three periods.*
Advanced Courses.

ENGLISH 7-11. *Four periods.*
Nineteenth Century Prose, Nineteenth Century Novel, The Short Story, Shakespeare, Milton, Nineteenth Century Poets.

EVIDENCES of CHRISTIANITY. *Two periods first semester.*

PHILOSOPHY 7. *Two periods second semester.*
Ethics.

POLITICAL SCIENCE 1. *Two periods.*
American Politics, American Government.

COMMERCE. *Two periods.*
Commercial Law, History of Commerce.

ELECTIVES to aggregate at least *two units.*

Senior Year

POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.

PHILOSOPHY. *Four periods.*
Chosen from Courses 3-10.

COMPOSITION and SPEAKING *throughout the four years.*

HISTORY. *Three periods.*
From Courses 2-6.

BUSINESS. *Two periods.*
Statistics, Business Practice.

ASTRONOMY. *Two periods.*

GEOLOGY. *Two periods.*

COURSES OF INSTRUCTION

English

PROFESSOR HIMES and Mr. MOSER.

1. Rhetoric. A study of the subject with the aid of a text-book. The aim of the course is (1) to acquaint the student with the principles of good writing, and (2) to lead to an appreciation of good literature. A course in composition is conducted in connection with this subject.

Freshman course. Two periods, first semester.

2. History of American Literature. A study of the subject with the aid of a text-book. Quizzes, collateral reading, papers.

Freshman course. Two periods, second semester.

3. Composition. Weekly themes on assigned subjects corrected and commented on by the instructor, in personal consultation with the student.

Freshman course through the year.

4. History of English Literature. The text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore course. Two periods through the year.

5. Composition. Advanced work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore course through the year.

6. Elocution. A course of lectures on the subject. Vocal exercise, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore course through the year.

7. Nineteenth Century Prose. A study of the development of modern prose. Selected readings from Coleridge, Lamb, De Quincey, Macaulay, Carlyle, Ruskin, Arnold and others.

Junior course. Two periods, first third of year.

8. Nineteenth Century Novel. A study of the development and structure of the novel. Lectures, collateral reading, papers. Junior course. Two periods, second third of year.

9. The Short Story. A study of its principles and structure. Selections from Hawthorne, Poe, Stevenson, Kipling, Harte, Twain, O. Henry, Ruth Stuart, Aldrich, Wister and others.

Junior course. Two periods, last third of year.

1-9 Mr. MOSER.

10. Course in English Poetry.

A Shakespeare—Dramatic art. Six plays are analyzed and interpreted, the most suggestive and important passages being read in the class. The writing of dialogue is practiced.

B Milton—Epic art. Five books of the *Paradise Lost* are read; the views of commentators are examined; Milton's conception of the material and spiritual universe is elucidated; portions of the poem are memorized.

C Nineteenth Century Poets. Selected poems of Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Matthew Arnold, D. G. Rossetti and Swinburne are analyzed for thought and structure.

Junior course. Two periods.

11. Writing and Speaking. Required of all students. The rendering of declamations and orations and the preparation of essays and debates are continued through the Junior and Senior years. Subjects assigned are suggested either by miscellaneous matters of interest or by topics found in the text-books studied. To secure carefulness on the part of the student the written work is read privately and criticised by the instructor.

10 and 11 Professor HIMES.

German

Professor GRIMM.

A An elementary course for students with no preliminary training in German, but with several years work in other languages. It includes the study of grammar, practice in writing

and speaking German, translation of prose and poetry, and the memorizing of simple poems.

Three periods through the year.

B A course for beginners similar to German A, but especially designed for students in the Greek-Latin Group. For such students it completes the requirements in German for the degree of Bachelor of Arts. Those, however, who have the Lutheran ministry in view, are advised to take also German 1 or German 2.

Three periods through the year.

1. For students who have presented German for admission; also for those who have completed German A. It may, likewise, be taken by students who have passed in German B. This course comprises a brief review of grammar, a careful study of syntax combined with oral and written prose composition, exercises in conversation, and readings, both with previous preparation and at sight, from standard writers of modern German prose. Some time is also given to the reciting of ballads and lyrics. Outside reading may be assigned.

Three periods through the year.

2. For students who have passed in German 1; also open to those students who have attained a grade of not less than C in German B. This course is devoted to the study of selections from classical authors, chiefly from Lessing, Goethe, and Schiller, with some attention to the laws and forms of poetics. It is partly conducted in German. Private reading is required.

Three periods through the year.

3. For candidates for the degree of Bachelor of Science; also open to others who have completed German 1. This course consists in the cursory reading in class of German essays of a general scientific character, together with private assignments on some special subject in Science or other college studies.

Two or three periods through the year.

4 A, B. For those students who have chosen German as their principal subject in the Modern Language-Latin Group;

open also to others who satisfy the instructor of their fitness to take it. The work in this course, conducted as far as practicable in German, consists in lectures on the main epochs of the German language and literature, with collateral reading from representative poets and masters of German style.

A From the dawn of the modern period to the present time, with some attention to German literature in America.

Two or three periods, first semester.

B From the beginning of German literature to the dawn of the modern period.

Two or three periods, second semester.

5. An elective course on German literature in the period of the Reformation, with special reference to Luther and the church hymns. Open to advanced students.

Hours arranged to suit the convenience of instructor and students.

6. An elective course devoted to the discussion of grammatical topics, advanced composition, and the critical reading of selected texts. Special attention is given to the needs of those students who wish to teach German in the public or secondary schools.

Hours arranged to suit the convenience of instructor and students.

7. A course aiming to give practice in German correspondence, and to widen the student's vocabulary of modern German by means of extracts from newspapers, periodicals, and other suitable reading. It also purposes to present to the student a general view of German land and people, and to acquaint him with the history of the Germans in our country. Attention is given to the needs of those looking forward to a business career. As far as practicable, the course will be conducted in German.

Hours to be arranged.

Deutscher Verein. Opportunity for more extended German conversation and discussions referring to German life, literature,

and culture is offered to advanced students in a voluntary German Club, meeting fortnightly from November to April.

Greek

Professor KLINGER.

1. Oratory. One oration each of Lysias, Isocrates, and Demosthenes will be read and the orations compared with particular reference to the development of Attic prose-style. Collaterally, by means of lectures and a syllabus, the rhetoric of the ancient Greek writers will be studied. These lectures are based on Dionysius of Halicarnassus and Demetrius and go with some detail into the question of stylistic qualities. There will be a complete review of formal grammar with sufficient prose composition to fix the forms of sentence-structure, a constant drill in vocabulary, and, so far as possible, a study of the social conditions in Athens after the Peloponnesian War.

Freshman course. Three periods, first semester.

2. History. Herodotus and Thucydides, with syntactical studies, drill in forms, and studies in the principles of word-composition as before. A thorough analysis will be made of the style of each author, involving the peculiarities of diction, of sentence-structure and of idiom. Particular emphasis will be laid on the speeches of Thucydides as examples of the austere style. While studying Herodotus a great deal of sight-reading will be required and private readings will be assigned to be reported on in the class-room.

Freshman course. Three periods, second semester.

3. Education. Plato's *Apology*, with large selections from the Socratic dialogues. The aim will be to make the student acquainted with the unique character and method of Socrates, his influence (through Plato and others) on succeeding thought. Three lectures will be offered in the subject of Greek Education, dealing with Ideals, Theories, and the Rise of the Sophists.

4. Epic Poetry. Homer, the *Iliad* or the *Odyssey*. The leading episodes will be read rapidly, a study made of the verse

and structure of the epic, of Homeric religious conceptions, and of the Homeric question. Lectures and assigned readings will be given on the age of Homer as a period of Greek history.

Sophomore course. Three periods, first semester.

5. Lyric Poetry. Tyler's Selections, followed by either Pindar or Theocritus. The rise of Greek lyric poetry will be traced, its verse-structure studied, and its influence on Greek social life noted. Collaterally a study of the history of Greek literature will be made by means of text and lectures, and the influence of Greek literature on later European literature will be pointed out.

Sophomore course. Three periods, second semester.

6. Tragedy. Aeschylus and Sophocles or Euripides, with the history of the Greek drama; the Greek theatre, method of presenting plays, costumes, masks, &c. Differences in style, motive, and religious conception in the three great tragic poets will be indicated and discussed.

Junior course. Two periods, first semester.

7. Greek Life and Art. The social life of the ancient Greek both private and public, including the history of Greek art. This course does not presuppose a knowledge of the Greek language and will be open to all students.

Junior course. Two periods, second semester.

8. Greek Literature in English Translation. Beginning with the epic period, a progressive study will be made of the different types of Greek literature by means of lectures, assigned readings, and the private study of selected works on which reports will be regularly required. The course will cover the subject up to Euripides in Tragedy. Open to all students.

Senior course. Three periods, first semester.

9. Continuation of Course 8. Greek Comedy. History, and Plato.

Senior course. Three periods, second semester.

Latin

Professor BIKLE.

Allen and Greenough's Latin Grammar and Harper's Latin Lexicon are recommended. Of the smaller dictionaries the student is advised to get the Elementary Latin Dictionary by Charlton T. Lewis.

1. Livy. Selections from Book I, and the Hannibalian War in Books XXI and XXII. Special attention is given to syntax and Livy's peculiarities of style. Collateral reading on the Punic Wars, and lectures on Rome and Carthage.

Freshman course. Three periods during the first semester till the Christmas vacation.

2. Horace. Selections from the Odes, including a critical interpretation with special attention to the Horatian meters and the mythological and historical allusions of the text. Berens' Hand-Book of Mythology is recommended. Collateral reading on Horace as a lyric poet.

Freshman course. Three periods from the beginning of January till the last of March.

3. Cicero. The *De Senectute* will be read with thorough drill in syntax, special attention being given to the mode uses of the Latin Subjunctive.

Freshman course. Three periods from the last of March till the close of the academic year.

N. B. During part of the Freshman year there will be, in connection with the reading of the Latin text, drill in Latin Prose Composition, embracing a rapid review of Latin syntax, with oral and written practice in the principles involved.

4. Cicero. The *De Amicitia* or the *De Natura Deorum*. Rigid drill in syntax will be continued with training in reading the Latin text with expression. Collateral reading of the life and times of Cicero. Informal lectures on Cicero's philosophical views.

Sophomore course. Three periods a week during the first semester till the Christmas vacation.

5. Horace. Satires and the *De Arte Poetica*. After the study of some selected satires the *Ars Poetica* is read, and each student is required to prepare a written analysis of the poem. A review of the dactylic hexameter versification.

Sophomore course. Three periods from the beginning of January till the last of March.

6. Tacitus. The *Agricola* or selections from the *Annals*. Along with the translation of the text there will be a study of the times in relation to the literature of this period, and special attention will be given to the characteristics of the Silver Age Latinity.

Sophomore course. Three periods from the last of March till the close of the year.

7. Quintilian. Tenth Book of the *Institutes*. The student is required to give a close study of the terms used by Quintilian in literary criticism, and to make a summary and classification of the Greek and Roman authors.

Junior course. Two periods during the first semester till the Christmas vacation.

8. Juvenal. Selected Satires. With full explanations of the text, and collateral reading on the private and social life of the Romans of the Empire. Followed by a short course in Roman Antiquities.

Junior course. Two periods from the beginning of January till the close of the college year.

9. Terence or Plautus. The *Andria* of Terence or the *Captivi* of Plautus. The *Dramatis Personae* are assigned to special members of the class and the parts rendered both in Latin and English. Informal lectures on the Roman theatre; also on the origin and development of the Latin drama and the value of the Roman comedy to the philologist and the student of Roman life.

Senior course. Two periods for twelve weeks.

10. Latin Literature. A course of lectures embracing a general survey of the whole field, and aiming to trace the rise and

subsequent development of the various kinds of prose and verse among the Romans, with special attention to the writers of the Golden and Silver Ages. Or

Roman History. A course of lectures covering the period from 150 B. C. to 100 A. D.

Senior course. Two periods for ten weeks.

11. Roman Law. Morey's Outlines as the chief text-book. After a careful study of the historical development and content of Roman Law, a paper is required from each member of the class on a subject assigned for special investigation. Or

Roman Constitutional History. The subject is pursued with the aid of a well approved text-book.

Senior course. Two periods for fourteen weeks.

ROMANCE LANGUAGES

French

Professor _____

A An elementary course for students who have not presented French for admission. For students in the Classical department, or in Science departments requiring Latin, it satisfies the requirements in French for the baccalaureate degree.* This course includes careful drill in pronunciation, the study of the essentials of grammar with constant exercises in turning English into French, and translation of easy French texts.

Three periods through the year.

1. An intermediate course for students who have presented French for admission; also open to those who have passed in French A. This course comprises the study of grammatical principles, composition, exercises in pronunciation, dictation, and readings from standard writers of modern prose. Outside reading may be assigned.

Three periods through the year.

* Students who have the Lutheran ministry in view may substitute German 1 or 2.

2. An advanced course open to all students who have completed with credit French 1, or who have done equivalent work. This course is devoted to rapid reading of French classics, with special reference to Corneille, Racine, Moliere, Voltaire. Some time is also given, during the second semester, to more difficult representative prose. Private reading is required.

Two or three periods through the year.

3. A course in advanced composition and conversation, elective only for such students who satisfy the instructor that they are qualified to take it. This course includes practice in the writing of French letters.

One period through the year.

Italian

1. An elementary course, open to those students who have completed the requirements in French. This course aims to give the student a thorough training in the rudiments of the Italian language and to enable him to read ordinary Italian with ease and accuracy.

Three periods through the year.

Spanish

1. An elementary course, open to those students who have completed the requirements in French. This course is intended for those who desire a knowledge of the essentials of the Spanish language, either for literary work or for a business career.

Three periods through the year.

The courses in Italian 1 and Spanish 1 are offered in alternate years.

Comparative Philology

Professor GRIMM.

1. A course open to advanced students, dealing with the principles of Linguistic Science.

One period through the year.

2. A beginners' course in Sanskrit, open to advanced stu-

dents. This course includes the study of grammar and the interpretation of an easy text from Lanman's Reader.

Two periods through the year.

Biblical Department

Professor WENTZ.

1. General Introduction to the English Bible. This course aims to bring to the student a sympathetic knowledge of the life and thought of the nation which has most vitally influenced our own civilization. To do this some reference must of course be made to Biblical history and geography. But the chief object is to acquaint the student with the Bible as the record of the advance and culmination of the highest religious consciousness of the human race. The distinctive forms of thought contained in the Bible from the beginnings of Hebrew history down to the close of the Apostolic Age are studied in succession. The original message of the writers is sought out and translated into the logic of the Occidental mind. This course is of necessity only introductory but it is intended to show that a knowledge of Biblical thought and literature is an integral part of a liberal education.

Freshman course. One period throughout the year.

2. Literary Study of the Bible. The Bible is studied as a body of English literature and the sacred writings are subjected to a morphological analysis. The discrimination of the literary forms is entirely independent of the historical investigation. The distinctive types of literary structure in the Bible as presented by Moulton in his *Modern Reader's Bible* are studied in detail and their permanent literary value is noted. The underlying principle of this study is that a thorough understanding of the outer literary form is an essential guide to an appreciation of the inner matter and spirit.

Sophomore course. One period throughout the year.

3. Life of Christ. A survey is given of the political, religious, and social conditions in the time of Christ as the background necessary to an understanding of His life and teachings. The

events of His life are then studied from the four-fold gospel itself, special attention being given to chronology and harmony. An outline of His teachings, ethical as well as religious, is ad-
duced. The aim is not apologetic but purely historical.

Junior course. One period throughout the year.

4. New Testament Study. This course embraces a study of New Testament Greek. Some book of the New Testament chosen by the class is read in the original. The study of Biblical Greek has its approach from the classic side but special attention is given to the distinctive peculiarities of Hellenistic Greek as a later and less artificial dialect of the elaborate and polished language of orators and philosophers. The student is familiarized with the vocabulary of the New Testament. Etymology and syntax are systematically studied.

This course is open to all who have had two years of Greek.

One period throughout the year.

Christian Evidences

Professor WENTZ.

A defensive statement of the Christian religion as the divinely revealed religion of redemption. From a consideration of the historical foundations the essence of Christianity is deduced in brief and thus the method of defense is determined. Evidences external and internal are considered. The miraculous element of the New Testament is vindicated. Special reference is had to those elements in our present intellectual environment which tend to make faith difficult. In conclusion, Christianity is compared with the ethnic religions, and the absolute character and the permanent significance of the Christian verities are maintained.

Junior course. Two periods, first semester.

Commerce and Finance

Professor —————

1. History of Commerce. A history of the general development of commerce and finance in the United States, including

the history of banking, the growth of corporate industry and manufacturing.

Two periods, first semester.

2. Commercial Law. The legal principles underlying and governing business transactions of every variety; contracts, partnerships, corporations, &c., from the viewpoint of organization, rights and liabilities.

Two periods, second semester.

3. Statistics. The elements of statistical method such as find their practical application in the problems of price, wages, labor, and social data in general, as these affect the economic world.

4. Finance. Theory of accounts, banking methods, reserve funds, dividends, taxation and distribution of wealth.

5. Investments. This course aims to enable the student to analyze securities so as to judge intelligently of their value; such as stocks, bonds, insurance, &c.

Courses 3, 4 and 5 cover two periods, extending through the year. Course 4 deals with business methods, Course 5 with business instruments, and Course 3 with the social and economic data which cause fluctuations in stocks, bonds, &c., the general aim being to give a comprehensive view of the factors entering into practical finance.

History

Professor WENTZ.

1. Political History of Modern Europe. The essential landmarks of ancient and mediaeval history are recalled and fixed definitely in mind and a brief introductory survey is given of the civilization of Europe at the end of the Middle Ages. Then beginning with the Protestant Reformation the course of the historical development of modern Europe is traced by a thorough study of the Modern Period in connection with Schwill's Political History of Modern Europe, the aim being to develop the

general background of historical knowledge and to introduce the student to the methods of college historical study.

Freshman course. Two periods throughout the year.

2. Advanced Course in English History. After a rapid introductory survey of the Anglo-Saxon period, the course begins with the Norman conquest and deals with the details of historical development down to the present. Stress is laid upon such phases of English history as will specially aid the student to understand the modern political development in continental Europe and in the United States. The materials of the study include text-books, lectures, secondary authorities, and sources, with frequent discussions of assigned readings.

Three periods, first third of year. Given in alternate years with Course 3.

Prerequisite 1.

3. Advanced Course in United States History. This course comprises a study in the epochs of our national history. An effort is made to discern the social and economic forces that have been operative in the development of the republic and thus lead to an understanding of the national problems of the present. Large attention is given also to American biography, and biographical essays, sketches of epochal events, and frequent reports on assigned topics are required.

Three periods, first third of year. Given in alternate years with Course 2. Omitted 1911-12.

Prerequisite 1.

4. The History of the German Empire and its Present Organization. This study begins with the reorganization of the political map of Europe after the Congress of Vienna and traces the gradual nationalization and unification of Germany. It concludes with a detailed study of the present organization of the Empire and an examination of the political, religious, and economic conditions of the present day. The characteristic phenomena are constantly culled from the sources.

Three periods, second third of year.

Prerequisite 1.

5. Lectures on the History of Ancient and Mediaeval Civilization. This course presupposing a knowledge of the facts and events of history makes a study of the growth of historical ideas. The forces that have moved men and nations are sought out and the causes which have operated to direct the tendencies of peoples and to develop institutions are set forth. The unity and continuity of history are developed.

Three periods, last third of year. Given in alternate years with Course 6.

Prerequisite 1.

6. Lectures on Modern and Contemporary Civilization. A continuation of Course 5, the aim here being to analyze the constitutive and abiding elements of our own civilization, to lead the student to a thorough understanding of the general trend of modern civilization and thus enable him to determine his relation to the world society of to-day.

Three periods, last third of year. Given in alternate years with Course 5. Omitted 1911-12.

Prerequisite 1.

Philosophy

Professor SANDERS.

1. Psychology. A course in general psychology which aims to acquaint the student with the phenomena of mind, the methods of psychological investigation and the practical bearing of the various mental functions on the problems of ethics, pedagogy, &c.

Sophomore course. Two periods for twenty weeks.

2. Introduction to Philosophy. The course in general psychology suggests the problems of philosophy. A brief course in Introduction is given which aims to present a comprehensive view of what philosophy is, its aim, its problems, its methods, its general attainments and its relation to the other departments of human thought.

Sophomore course. Two periods for fourteen weeks.

3. *Logic.* An introductory course in the laws of thought. The evolution of concept, its development into the judgment and inference, the systematic function of classification, the explanatory function of generalization, &c., are studied with a view to securing a foundation for the theory of knowledge and effective scientific method.

Open to Juniors and Seniors. Two periods, first semester.

4. *Sociology.* A study of the nature of society and its practical problems. Starting with the psychological factors of socialization, the development of social institutions, the economic and cultural factors of social progress and the elimination of hindrances—social evils—are taken up in turn with a view to understanding the methods of social improvement.

Open to Juniors and Seniors. Two periods, first semester.

5. *History of Education.* A study of the most important movements in the history of education, the factors and personages which were instrumental in bringing about the various steps in the long line of progress.

Junior course. Two periods, first semester.

6. *Pedagogy.* Methods and processes of education, the growth of the mind and the principles to be observed in its training, the application of the principles of psychology to education, constitute the subject matter of the course.

Junior course. Two periods, second semester.

7. *Ethics.* A study of human conduct. The concept of personality and the idea of self-realization, as forming the background of the moral judgment, are wrought into a system which explains the origin of the moral motives as well as their implication of God and immortality.

Junior course. Two periods, second semester.

8. *History of Philosophy.* This course is intended to give the student a general acquaintance with the development and progress of reflective thought from its beginnings among the Greeks to the present time together with its relation to the development of the special sciences. The student is required to

read selections from the works of the leading thinkers and bring in written reports. The aim is to develop an appreciation of the spirit of philosophy and lay foundations for independent constructive thought. A brief review of present day problems concludes the course.

Senior course. Three periods through the year.

9. Philosophy of Religion. A study of religion as a distinct factor in human development.

Senior course. Two periods, first semester.

10. Theism. This is essentially a course in metaphysics. Beginning with the method of system building, the student is introduced to the meaning of a world-view, the factors which a comprehensive and consistent view must recognize, and the reasons for regarding Theism the theory which best meets all the requirements.

Senior course. Two periods, second semester.

Prerequisite 1, 2 and 3.

Students intending to prepare for teaching are advised to elect the courses in Logic, History of Education, and Pedagogy, as these subjects, together with the Psychology and Ethics required of all students, are required for a State teacher's certificate.

Political Science
Professor HIMES.

1. Science of Government.

A American Politics. The subject is pursued on the basis of Johnston's American Politics with comments and suggestions for collateral reading. An intelligent acquaintance with present political conditions is aimed at.

B American Government. The principles and structure of government are studied. National and State constitutions are consulted. The annual Presidential Message is discussed.

Junior course. Two periods through the year.

2. Economics and Law.

A Economics. The theories of the science are brought,

wherever possible, to the test of the student's personal observation and the true nature of the science is thus impressed. Problems for investigation are assigned to the class with instructions to inquire into actual industrial and social conditions and operations.

B International Law. Lawrence's International Law is used, with occasional lectures on special topics.

Senior course. Three periods through the year.

Biology and Hygiene

Professor STAHLEY.

Courses 1 to 6 are given during the Junior and Senior years, and are required in the Biology, Chemistry and Physics group of studies and are elective for the other groups and for partial course students in other years. The Junior work is a general culture course, and is calculated to give the student a general understanding of current biological questions. The Senior work is more medical in its cast, and in conjunction with the Junior work, provides an admirable preliminary preparation for the study of medicine.

The work is carried on by lectures, demonstrations, dissections, written descriptions and drawings, quizzes and frequent stated examinations. There are two well-lighted laboratories, provided with all needed instruments and apparatus.

1. General Biology. This branch acquaints the student with microscopic technique and general laboratory methods, whilst he studies selected types of plants and animals, taken from the lower forms of life. The purpose is to ascertain fundamental facts of structure and life processes, with the significant relationships in the two great kingdoms of organic nature.

Junior year. Three periods for thirteen weeks.

2. Vertebrate Zoology. Fundamental vertebrate features of structure and function are carefully considered, whilst dissecting type forms, beginning with the lowest vertebrates known, and proceeding through the various classes, culminating with the

Mammals; the latter class claiming special attention. Questions relating to comparative morphology and physiology of vertebrate animals are freely discussed.

Junior year. Three periods for fifteen weeks.

3. Invertebrate Zoology. Representative types in this great group of animals are dissected. The basal plans in organization, with the varying modifications in form and function, are made subjects of practical study.

Junior year. Three periods for eight weeks.

4. Human Anatomy and Physiology. Special attention is given to osteology, joints, ligaments and muscles. Tramond's preparations, consisting of real bony joints, with accurately placed artificial ligaments, and Azou's dissectible manikin, provide ample facilities for this part of the work. In this, as in all the branches of the course, physiological processes are constantly discussed.

Senior year. Three periods for nineteen weeks.

5. Mammalian Histology. With the aid of prepared microscopic slides, the student studies the minute anatomy of the different tissues of the body, and their actual relationships in the different organs. He also learns practically how to fix, harden, imbed, section, stain and mount the important tissues; thus acquiring a practical knowledge of histological work.

Senior year. Three periods for eleven weeks.

6. Embryology. The principles of maturation and fertilization of the germ elements are considered. The stages of segmentation are observed in the ova of the frog and fish. The development of the chick is studied. Entire mounts are made, as well as mounts of serial sections of the incubating egg, from the first hour of incubation to the fifth day, when the organs are practically all formed.

Senior year. Three periods for six weeks.

Sanitary Science. Lectures. House, municipal, State and National sanitation in their varied and rapidly developing new

features are dwelt upon with the idea of furnishing a comprehensive yet intelligent outline of the subject.

One period through the year.

Physical Culture. This end is sought under medical guidance in the Gymnasium during the college year from November 1 to April 1. A physical examination of each student is made when he enters college and such gymnastic exercises as seen necessary are prescribed as seem indicated. The purpose is to encourage the promotion of such health and physical vigor as are necessary for successful mental application. Since much harm is often done by injudicious physical exercise, special effort is made to advise those who are suffering from defective bodily conditions how they may be helped by hygienic methods and the selection of forms of exercise particularly suited to their case.

Chemistry

Professor BREIDENBAUGH, Mr. STOVER and Mr. DICKSON.

These courses in chemistry are not designed to prepare specialists in any department of the subject, but to give a general training in the science. The successful completion of these courses will prepare the student to enter on post-graduate or professional studies in any leading university, or qualify him for a more successful pursuit of any technical business, or fit him to teach chemistry in secondary schools.

The instructors are in daily attendance during the college term from 8 to 12 and from 1 to 4, except on Saturday afternoons.

1. **General Chemistry.** No previous acquaintance with the subject is required. Those offering chemistry for admission will be allowed to substitute, as far as is best for the individual, from Course 2. The general principles and the fundamental laws of the science are included in the course which consists of lectures, readings from approved text-books such as Remsen's *College Chemistry*, Newell's *Inorganic Chemistry for Colleges*, and laboratory work of which careful record in note-books is re-

quired. There are daily quizzes and frequent examinations. The last several weeks of the course are devoted to a practical review and examination in the determination of a certain number of substances, based on the results of previous study.

Three lectures and six laboratory hours weekly for one year.

2. Qualitative Analysis. The student, following an outline prepared for the purpose, becomes acquainted with the general reactions of the elements of the several groups and from these data constructs the scheme of analysis which is applied in a number of determinations. There is constant supervision and personal conference over the work. Reference book: Fresenius' Qualitative Analysis.

Nine laboratory hours including class work weekly for one year.

Prerequisite 1.

3. Quantitative Analysis. While such lectures as are desirable are given, this is essentially a personal laboratory course. An assigned minimum of work is required. Text-book: Fresenius' Quantitative Analysis.

Nine hours of laboratory work weekly for one year.

Prerequisite 1 and 2.

4. Organic Chemistry. Lectures and preparations based on Remsen's Organic Chemistry occupy about one half the course, the remainder of the time is given to ultimate and proximate analysis of organic substances and of animal and plant products.

Three lectures and six laboratory hours weekly for one year.

Prerequisite 1 and 2.

5. Special Quantitative Methods. Students, who are qualified, are offered courses in advanced and applied analysis—such as mineral, ore and cement analysis, the examination of waters, food stuffs, etc.

Such number of hours as may be arranged for during Senior year, or during Junior year by such students as have completed other work in the department.

Geology and Mineralogy

Professor BREIDENBAUGH.

1. **Geology.** This course of lectures gives the student an acquaintance with the facts concerning inorganic geology with a discussion of the dynamical agencies which have been operative in bringing the earth to the condition in which we now find it. A comprehensive discussion of the principles of evolution with illustrations from historic geology closes the course.

The student is assigned readings from the text-books of Dana, Le Conte and Chamberlin and Salisbury and other authors.

Field work and the preparation of papers from personal observations give practical work. Frequent examinations are held.

Two periods for a year.

2. **Mineralogy.** Following a short course of practical work in Crystallography, there is a series of determinations of not less than one hundred minerals by their physical and blowpipe characteristics.

Two periods for a year.

Prerequisite Chemistry 1.

Mathematics and Astronomy

Professor NIXON and Mr. TROXELL.

The courses in mathematics are arranged to give thorough mental discipline; to meet the needs of teachers; to fill the wants of students desiring later to do graduate work in the best universities; to prepare for engineering or other technical courses. The instruction includes full explanation of all difficult points, free use of blackboard by both instructor and pupil, daily drill and note-book work, checking of results, application of mathematics to practical problems of every day life.

1. **Solid Geometry.** The usual text demonstrations including the relations of the plane and lines in space, the properties and mensuration of prisms, pyramids, cylinders and cones, the sphere and spherical triangle; geometric models. Well's Solid Geometry.

Freshman course. Three periods one third of year.

2. Plane and Spherical Trigonometry. Fundamental definitions, properties and analytical theory of trigonometry functions, with the usual formulae; theory and principles of logarithms; applications to the solution of various practical problems; use of the transit and level. Granville's Plane and Spherical Trigonometry.

Freshman course. Three periods two thirds of year.

3. Advanced Algebra. Undeterminant coefficients with applications to series and partial fractions; graphical method of solving equations; determinants with applications to simple equations; the elements of the theory of equations; including the solution of numerical equations by Horner's method. Well's Advanced Algebra.

Sophomore course. Three periods one third of year.

4. Plane Analytic Geometry or Elementary Analysis. The equation and the plotting of the corresponding locus is discussed in general, after which the following topics are studied; line, circle, ellipse, hyperbola, parabola and other curves, their tangents, normals, lengths and areas. Nicholas' Analytic Geometry; Granville's Elementary Analysis.

Sophomore course. Three periods two thirds of year.

5. Differential and Integral Calculus. The latest and best methods of teaching the Calculus are used. This course prepares students for work in applied science, for more advanced courses in pure mathematics, and for engineering or other technical courses. Simple practical problems are given throughout that illustrate the theory and at the same time are of interest to the student. These problems do not presuppose an extended knowledge in any branch of science but are based on knowledge that all students in a first course in the calculus are supposed to have in common. Granville's Differential and Integral Calculus.

Junior course. Three periods throughout the year.

6. Field Work in Surveying. Land, topographical and railroad surveys are made, plotting and checking. Levels are run

and profiles are drawn. The field work is arranged so that each student receives drill in the use of the instruments, including the transit, level and plane table. Carhart's Field Book.

Junior course. Three periods one third of year.

7. Mechanical Drawing and Descriptive Geometry. Instruction is given by recitations and the solution of problems on drawing board.

Junior course. Three periods two thirds of year.

Courses 6 and 7 are open to Sophomores.

8. Differential Equations. This course is based on the Calculus of Junior year, and consists of recitations on methods of solution and geometrical interpretation of ordinary and partial differential equations. Cohen's Differential Equations.

9. Solid Geometry. This course is based upon the Analytic Geometry of Sophomore year, and includes various topics of Analytic Geometry of three dimensions. C. Smith's Solid Geometry.

10. Theoretical Mechanics. This course is based upon the Calculus of Junior year, and includes the mathematical treatment of various topics of mechanics. Smith and Longley's Theoretical Mechanics.

8, 9 and 10, Senior courses. Three periods throughout the year.

11. General Astronomy. This course is designed to meet the needs of students interested in Astronomy. Practical work is included but the emphasis is laid upon the theory. The subject matter is the following: determination of time, latitude and longitude from observation with the transit; computing the time of sunrise, etc., and projecting a lunar eclipse; descriptive Astronomy covering the material contained in Young's General Astronomy.

Senior course. Two periods throughout the year.

12. Lectures on the history of mathematics.

President GRANVILLE.

Physics

Professor PARSONS and Mr. BAKER.

1. General Physics. A course in the elements of Physics, including Mechanics, Properties of Matter, and Heat (First Semester), and Electricity and Magnetism, Sound and Light (Second Semester), the instruction being given by lectures illustrated by experiments, recitations and laboratory work. Problems are assigned for work outside the class. No previous knowledge of Physics is assumed, but a preparatory (or high school) course in Physics is advantageous as preparation.

Three hours lecture and class work, and a minimum of three hours laboratory work, per week throughout the year. 4 units credit.

Prerequisite: Freshman required Mathematics or its equivalent, including Plane Trigonometry.

1A. Elements in Physics. Identical with Course 1 as regards lectures and class work, but with only a small amount of laboratory work required (averaging about one hour per week for a year). 3 units credit.

2. Advanced General Physics (Major Course). A more rigorous and complete treatment than Course 1, emphasizing particularly Mechanics and Electricity, following some advanced text (as Watson's, or Duff's Text-Book of Physics), and supplemented by lectures on Mathematical and Experimental Physics, illustrated by experiments. Problems are also assigned for outside work. All students preparing for engineering or scientific work or for teaching the physical sciences should take this course. The corresponding laboratory courses 3 should be taken together with this, but they may be elected separately. The course comprises:

A First Semester: Mechanics, Heat and Sound. The fundamental principles of Kinematics, and the Statics and Dynamics of systems and rigid bodies, are considered, the equations of motion for translation and rotation developed and applied; and attention given to elastic constants and strength of material,

the principles of Hydraulics, Periodic Motion, and the principles at the basis of such subjects as Steam Engineering.

B Second Semester: Electricity and Magnetism and Light. The theory and applications of electricity are here considered, the subjects being developed both mathematically and experimentally; including magnetic induction, thermoelectricity, electrolysis, and induced currents, with applications to dynamos, motors, etc., and such subjects as X-Rays, radioactivity, and wireless telegraphy are briefly treated; and also the important phenomena of Light including interference, diffraction, and polarization.

Three hours lecture and class work throughout the year. 3 units credit.

Prerequisite: Physics 1 and Sophomore Mathematics (including analysis and the elements of Calculus).

3A. Physical Measurements. A laboratory course in General Physics designed to accompany Course 2A. Mechanics (including Dynamics, Elasticity, Moments of Inertia, and Periodic Motion) and Heat and Sound.

Three or five periods, first semester. $\frac{1}{2}$ or 1 unit credit.

Prerequisite: Physics 1.

3B. Electrical Measurements. A laboratory course accompanied by class-room instruction in the measurement of electrical quantities, as resistance, current, quantity, electromotive force, capacity, and power.

Three or five hours per week, second semester. $\frac{1}{2}$ or 1 unit credit.

Requirements same as 3A.

4. Medical Physics. A descriptive course in Physics involving but little mathematics, illustrated by experiments, and comprising lectures, class work, and laboratory work. Subjects of particular interest to medical students are emphasized, as, density, diffusion, osmosis, electrical instruments, induction coils, X-rays, high frequency currents, ultra violet light, radioactivity,

photography, refraction, optics of the eye, astigmatism, color sensation, and acoustics.

Two periods throughout the year. (Proportion of lectures to laboratory work not fixed). 2 units credit.

Of the following courses 5 and 6 alternate with 7 and 8 on successive years:

5. Direct and Alternating Currents. Elements of Electrical Engineering. Lectures, recitations, problems, and laboratory work. The complete theory of the magnetic circuit, electromagnetic induction, alternating currents with self-induction and capacity, direct and alternating current machinery, and problems of electric lighting, heating, and power transmission, storage batteries, telephones, and wireless telegraphy, are treated.

Three periods per week (including 2 or 3 lectures and laboratory work as assigned). First semester, $1\frac{1}{2}$ units credit.

Prerequisite: Physics 1, 2 and 3.

Recommended for students preparing for Electrical Engineering.

6. Light. A general course in Light, theoretical and experimental. The principles of Geometrical and Physical Optics with Spectroscopy and Photography.

Three periods per week, second semester. $1\frac{1}{2}$ units credit.

Prerequisite: Physics 1 and 2 and Calculus.

Should be taken by all students specializing in Physics.

7. Theoretical Mechanics and Mathematical Physics. An advanced course in the principles of Mechanics, and Hydrodynamics, making use of the calculus and simple differential equations, and including the dynamics of vibrating systems.

Three lectures per week, first semester. $1\frac{1}{2}$ units credit.

Prerequisite: Calculus and simple Differential Equations.

8. Recent Advances in Physics. The Electron Theory, Electrical Discharges through Gases, Radioactivity, and similar subjects. Lectures, illustrated by experiment.

Two lectures per week (possibly 3), second semester. 1 (or $1\frac{1}{2}$) unit credit.

Prerequisite: Calculus and simple Differential Equations.

9. Advanced General Laboratory Physics. Comprising the laboratory work given in connection with courses 5-8, or any of the following courses. Credit proportional to the amount of work done.

One or more of the following courses may be offered at any time in the place of one or more of courses 5-8, or offered as extra electives to meet the needs or wishes of the students; or may be taken, together with 5-8, as Graduate Courses (excepting 16)—the details to be announced when the courses are offered:

10. Thermodynamics (may alternate with 7).
11. Theory of Electricity and Magnetism. (Mathematical).
12. Physical Optics and Electromagnetic Theory. (Mathematical).
13. Molecular Physics, or Kinetic Theory of Gases. (Mathematical).
14. Selected Topics in Advanced Physics.
15. Research on some assigned problem.
16. Photography. Prerequisite: Physics 1 and Chemistry 1.

Engineering Courses

Three courses are offered in Civil Engineering and three in Municipal Engineering. These two branches of engineering are closely related. In Civil Engineering emphasis is placed on land surveying, railroad construction, and bridge building; while in Municipal Engineering the problems of a city are given special consideration, as water supply, sewer systems, lighting, streets and pavements, and sanitation.

These courses include, first, thorough instruction in the fundamental principles of the sciences on which such engineering courses are based, and second, the application of these principles to actual practice. The teaching consists of practical exercises, lectures, and recitations, combined in such a way as to produce the best results in the mental training of the student and in preparing him for his active duties in engineering.

Courses in Civil Engineering

C. E. Course 1. Four year college course in Civil Engineering leading to the degree of Bachelor of Science. The work of each of the four years includes:

A Studies of the Freshman and Sophomore years. These first two years of the course are taken in any one of the following seven courses described on pages 25-35, namely:

1. Greek and Latin.
2. Latin and Modern Languages.
3. Latin and Chemistry or Physics.
4. Modern Languages and Chemistry or Physics.
5. Biology, Chemistry and Physics.
6. Mathematics and Modern Languages.
7. Commerce and Finance.

It is necessary, however, for any student in engineering, to take Mechanical Drawing and Surveying in his Sophomore year.

B Studies of the Junior Year. These are: Surveying, Office Work, Mapping and Lettering, Steam and Steam Engine, Electrical Engineering, Hydraulics, Masonry Construction, Roads and Pavements, Differential Calculus, Integral Calculus, English, German, French or Spanish or Italian.

C Studies of the Senior Year. These are: Surveying, Office Work, Bridge Design, Bridge Drafting, Adjustment of Observations, Engineering Specifications, Economic Location of Railways, Strength of Materials, Theoretical Mechanics, Astronomy, Stresses, German, French or Spanish or Italian. (The Senior year studies in this course will not be offered until 1912-1913).

C. E. Course 2. Five year course in Civil Engineering, leading to the degree of Civil Engineer. This course includes:

A The completion, here or elsewhere, of a technical college course such as C. E. Course 1, described above.

B One year of residence work on advanced mathematical and civil engineering studies.

C In addition to the above described five years of actual residence study, the candidate is expected to spend at least one year in actual professional work as a civil engineer, at the end of which period he must show evidence of such work and present a satisfactory thesis as explained below in C. E. Course 3 C, page 63.

In special cases the candidate may be allowed to interchange requirements B and C, that is, he may spend at least one year in actual civil engineering work and then finish his course by one year of residence study.

C. E. Course 3. Six year course in Civil Engineering leading to the degree of Civil Engineer. This course includes:

A Any full college course pursued here or elsewhere.

B Two additional years of residence work comprising, first, all the mathematical and technical studies enumerated in C. E. Course 1, for which the student does not have credits from his college course, and second, enough advanced work along the same lines to occupy his whole time.

C Any candidate for the degree of Civil Engineer must present a satisfactory thesis containing the design of some projected work based on his own observations, and it must include all the necessary calculations, drawings, and specifications.

Courses in Municipal Engineering

Mpl. E. Course 1. Four year college course in Municipal Engineering leading to the degree of Bachelor of Science. The work of each of the four years includes:

A Studies of the Freshman and Sophomore years. These are the same as described in C. E. Course 1 A, page 63.

B Studies in the Junior Year. These are the same as those described in C. E. Course 1 B, page 63.

C Studies of the Senior Year. These are: Surveying, Office Work, Bridge Design, Bridge Drafting, Adjustment of Observations, Engineering Specifications, Strength of Material

Theoretical Mechanics, Water Analysis, Bacteriology, Water Supply Engineering, Sewer Design and Construction, Astronomy, German, French or Spanish or Italian. (The Senior year studies in this course will not be offered until 1912-1913).

Mpl. E. Course 2. Five year course in Municipal Engineering leading to the degree of Civil Engineer. The requirements for this course are the same as for C. E. Course 2, page 63. except that the references to Civil Engineering should be replaced by similar references to Municipal Engineering.

Mpl. E. Course 3. Six year course in Municipal Engineering leading to the degree of Civil Engineer. The requirements for this course are the same as for C. E. Course 3, page 64 except that the references to Civil Engineering should be replaced by similar references to Municipal Engineering.

A short description now follows of each one of the technical studies of the engineering courses:

Bridge Design. This includes the design of floor systems for highway and railway bridges, built beams and plate girders. Also the design of riveted connections, thickness of reinforcing plates, compression members of wood and steel, tension members and pins.

Bridge Drafting. This course teaches how to make detailed drawings of various parts of bridges, as stringers, floor beams, plate girders and compression members. Also of timber structures such as trestles and roof trusses. All the drawings to be fully dimensioned, lettered and checked, and accompanied by a bill of costs of material.

Strength of materials. This course covers the calculation of reactions, moments and shears, for beams under various loadings.

Roads and Pavements. This course treats of the various methods used in road and pavement construction and their adaptability to varying local conditions.

Stresses. This teaches the student how to make the calculations necessary in bridge design and construction and includes the theory of elasticity as applied to engineering practice.

Engineering Specifications. Here the student is taught the preparation of engineering specifications according to the best practice of the day.

Economic Location of Railways. This course gives the fundamental principles which determine the position and construction of a railway, taking into account the business it is to serve as well as the topography of the country through which it is to pass.

Electrical Engineering. This is an elementary course consisting of lectures and laboratory work. The course is designed to meet the needs of students not specializing in electrical engineering.

Office Work. In this course various methods of plotting notes of surveys and profiles are studied and practice given in their application to the actual field work done in surveying.

Adjustment of Observations. In this course the method of least squares is employed in the adjustment of field and laboratory measurements.

Steam and Steam Engine. This course gives an elementary training in the principles and applications of steam with special reference to the steam engine.

Masonry Construction. Instruction is given on the properties of materials, the construction and calculation of the stability of foundations, retaining walls, dams, and arches. Tests are made of cement and mortar.

Hydraulics. Here instruction is given on the flow and discharge of streams, pipes, and sewers, illustrated by experiments.

Water Supply Engineering. This course deals with the questions of the varying quantity of water required by different classes of cities and towns, the methods of collecting and distributing water, the judging of its quality and effect on public health, sources of contamination and methods of filtration.

Sewer Design and Construction. In this course lectures are given showing the various methods of sewer design and construction. The student is required to design a sewer system which shall meet, in an economic manner, the requirements of some particular place.

Bacteriology. After a general introduction to the subject of bacteriology, work is done along this line which has to do with the purification of water supplies.



GENERAL INFORMATION

Government

The College aims to develop the individual manhood of the student. The prevailing influences are such as lead young men to an active Christian life and to realize their personal responsibilities in the community. The immediate supervision of the students is in the hands of the President and Dean with the class officers.

Class Officers

A professor is appointed as class officer for each class. The members of the class may present any request to their class officer and will confer with him in matters referring to college affairs.

Student Group Advisers

The head of each department acts as adviser to those students having a major in his department. He has oversight in the selection of electives and in the general character of the work of the student.

Student Council

Without lessening their authority and responsibility, the Faculty have delegated certain duties in government to the student body as a trial of self-government. The students act through a student council of four Seniors, three Juniors, two Sophomores and one Freshman, elected by their respective classes. The council acts in certain matters of discipline, and in other matters of welfare to the student body is a medium of communication between the students and the Faculty.

Terms and Vacations

The college year of about thirty-six weeks is divided into two equal parts. The first semester begins at 8 A. M. on the second Wednesday in September and continues, with recesses at Thanksgiving and Christmas, to the first Friday of February; the second

semester begins on the following Monday and continues, with an Easter recess, to Commencement Day, the second Wednesday of June. The closing days of each semester are devoted to examinations.

Attendance

Each student, not residing with his parents, is required to attend on week days a prayer service at 7.40 A. M., in Brua Chapel. On the Lord's Day attendance is required at the morning service in the College Church. Those affiliated with other denominations are, on request of their parents, granted permission to attend elsewhere. Ten per cent. absences are allowed from prayers and church under the rules governing absence from class work.

Each student is allowed individually ten (10) per cent. absences from class-room work in each subject. This allowance, is expected to cover all ordinary absences. Fractions are not counted, and absences can not exceed four in any department during a single semester. These absences are not allowed for the two days preceding nor for the two days following any recess. These absences are not allowed for announced examinations. Such absences can only be excused by the Faculty and the substitute examination will be held at such time as the instructor shall appoint. When absent from topical examinations or quizzes the student shall have an examination or quiz at such time as the instructor shall appoint. Unexcused absences count as zero on grade, and if these absences exceed the ten per cent. allowance the student shall take such special examination as the instructor shall direct. A further allowance of absences may be granted to members of athletic teams, musical organizations, participants in literary contests, and to representatives of literary societies for the purpose of attending conventions.

Electives

A student having electives must deposit with the Registrar, within the first two days of the year, a written list of his electives, bearing the endorsement of the student's Group Adviser

and of the instructors concerned. After the first week of the year changes in electives can be made only when approved by the Faculty, under such conditions as may be determined in each case.

Examinations

Examinations are held in all subjects at the close of each semester or when, during the term, a subject is completed. Instructors can have topical or quiz examinations at the time of any of the regular appointments with the class. Absences from these examinations are governed by the rules given above.

Conditions and Deficiencies

Freshman entrance conditions must be satisfied by the beginning of the Sophomore year.

A student failing in the class work of any semester, in any course, must satisfy the work in such manner and at such time as may be required by the instructor, provided this be done before the close of the next semester.

A student failing in an examination at the end of a semester or on the finishing of any subject, is required to take a second examination at a date appointed by the instructor within the first two weeks of the next semester.

A student who at the beginning of any college year continues deficient in more than one-third of a year's work will be enrolled with the class in which the deficiency occurs.

A student deficient at the beginning of a year in courses aggregating six units will be required to drop a corresponding number of units in the regular work of the year.

Records

A record of scholarship and deportment, under the care of the Registrar, is kept for each student. The grades for scholarship are reckoned on a maximum scale of 100. A grade of less than 65 is regarded as deficient.

The student begins each semester with a deportment grade of 100. Deductions are made from this at the end of each semester.

Unexcused absences count: from church 5, from prayers 2, from recitation 2, from gymnasium 2.

Reports

A copy of the above record is sent to the parents or other proper parties at the end of each semester. In the scholarship report A indicates a grade 96-100, B 90-96, C 80-90, D 65-80, E deficient.

Requirements for Graduation

Each student completing the prescribed subjects of any group of studies and such number of electives as will aggregate at least sixty-four units, with the prescribed work in composition and speaking and in physical culture, will receive the degree pertaining to that group, either Bachelor of Arts or Bachelor of Science. Provided, however, that no student in any year shall maintain less than fifteen units per week.

The degree of Civil Engineer is conferred as stated in the description of the civil engineering courses.

No student will be graduated who is not present at Commencement unless he be excused by the Faculty.

Certificates

Partial and special course students or those withdrawing before the completion of a full course of study are entitled to a certificate giving a copy of the college record.

Master's Degree

Beginning with 1911-12 the degrees of Master of Arts and Master of Science are conferred on those having the corresponding Bachelor's degree according to the following regulations:

The Master's degree may be conferred upon resident graduates of at least one year's standing who have obtained the baccalaureate degree of this college or of any college of equal grade. Such students must present to the Faculty Committee on Advanced Degrees, for approval, a plan of advanced studies involving the equivalent of twelve units per week. It is recommended

that at least one-half of the course be devoted to some one subject.

The Master's degree is also offered to non-resident graduates of this college of three years' standing or more. These must, however, at the beginning of their candidacy arrange with the Faculty Committee on Advanced Degrees a systematic course of study, and must report annually to the head of the department in which the subjects have been chosen.

In order to obtain the degree the candidate must pass examinations satisfactory to his instructors and to the committee. Previous to the final examinations the instructors in charge shall file with the committee a statement of the work done by the candidate. If the report is satisfactory the candidate will be permitted to present himself for final examination. He shall also be required to prepare a paper upon an approved subject bearing on his principal study. Such paper must be completed and submitted to the committee at least one month prior to the commencement on which the degree is to be conferred: if accepted, it becomes the property of the college.

Graduates of this college who have devoted at least one year to graduate work in residence at other colleges or universities and have fulfilled the above requirements may be admitted by the Faculty to the Master's degree. It may also be conferred upon graduates who have completed a course of advanced study in professional schools. Provided that the work done be in kind, grade, and amount equivalent to that required of other candidates and has not been offered in fulfillment of the requirements for a professional degree.

Honors

The following honors will be awarded at the close of each year:

A Final Honors will be awarded to members of the graduating class meeting the following conditions:

General Final Highest Honors will be awarded those students who have maintained during the four years the grade A in all of their studies.

General Final Honors will be awarded to those students who have maintained the grade A in at least half of the units of their four years and have not fallen below the grade B in their other studies.

Students entering at the beginning of Sophomore year will be awarded the same honors if they meet the above requirements for three years, the published reports indicating that the recipients of the honors entered college in Sophomore year.

B. Department Final Honors. The head of any department recommending a student taking a major in that department as having shown special excellence in his work and the student not having below grade B in more than three courses in other departments shall be awarded Final Honors in that department.

C Class Honors for Freshman, Sophomore, Junior and Senior Years. Highest Honors for the designated year will be awarded those members of the class who have maintained the grade A in all their studies for the year.

Class Honors for the designated year will be awarded those members of the class who have maintained the grade A in at least half of the units of the year and have below grade B in none of their studies for the year.

These awards shall be announced at Commencement and published in the next BULLETIN.

Prizes

Muhlenberg Freshman Prize. The interest of a fund of five hundred dollars, contributed by F. A. Muhlenberg, D.D., LL.D., a former Professor in this college, is given at the close of the year to that member of the Freshman class who is found to have attained the highest degree of scholarship in the Greek and Latin group of studies.

Baum Mathematical Prize. Charles Baum, M.D., Ph.D., Class of 1874, of Philadelphia, has contributed five hundred dollars, the income from which is to be given annually to that

member of the Sophomore class who shows the greatest proficiency in Mathematics.

Hassler Latin Prize. Mr. Charles W. Hassler furnished a fund, the interest of which is annually expended for the purchase of a Gold Medal, to be presented to the student of the Junior class, who, at the end of the year, shall be the best Latin scholar.

Reddig Oratorical Prize. Mr. Clarence Jacob Reddig, class of 1877, of Shippensburg, contributes annually the sum of twenty-five dollars as an Oratorical Prize, to be contended for in public by the Junior class, on Tuesday of Commencement Week.

Pittsburg Prize in Chemistry. The Pittsburg-Gettysburg Club have established a prize of \$25, to be given to the student who does the best work in Chemistry during the Junior year in those groups in which Chemistry is a major.

Graeff Prize. This prize was founded by Mr. John E. Graeff, class of 1843. The sum of thirty dollars is awarded for the best English Essay from the Senior class, on a subject previously assigned. The decision is made by a committee appointed by the Professor of English Literature.

Prizes in Debate. The Literary Societies of the college provide three prizes of \$36, \$24 and \$15, respectively, for the encouragement of skill in debating. The first contest takes place about the middle of November between teams chosen by the Sophomore and Freshman classes, respectively, and the winning team is rewarded with \$15. The second contest between the winning team and a team from the Junior class, takes place about the middle of March, with \$24 to the winners. The third contest, between the second victors and a team from the Senior class takes place about the middle of May, with a reward of \$36 to the winners. Winners of the first prize are excluded from further competition.

Bloomhardt Mercury Prizes. Dr. Fred H. Bloomhardt, class of 1894, of Altoona, Pa., offers \$25 annually to be devoted in

prizes to the encouragement of writing for "The Mercury," the College literary journal.

Students in partial or special courses are not admitted to competition for any of the foregoing prizes.

Scholarships

A number of permanent scholarships, securing free tuition, have been endowed and are under the control of synods, congregations or individuals. C. W. Thompson, Esq., of Lancaster, established a scholarship for the purpose of giving the benefit of a collegiate education to the most successful and indigent pupil who shall have passed through the prescribed course in the High School of Gettysburg.

Treasurer's Bills

The bills of the College Treasurer are made out for each semester and include half of each college item.

A discount of five (5) per cent. will be allowed on all dues paid within six weeks of the opening of each semester.

No student shall be graduated until all financial obligations to the college and for class publications and other student interests are settled, except when a student has registered a timely protest with the Faculty and the claim for relief has been allowed.

Expenses

The expenses of a college student depend on the training and habits of the individual. The following statement indicates the range for certain fixed charges:

College Items.		Low.	Moderate.	Liberal.
Tuition	\$30.00			
General fees	50.00	\$80.00	\$80.00	\$80.00
Library fee		1.50	1.50	1.50
Athletic fee		6.00	6.00	6.00
Room rent and heat (half room)		15.00	40.00	70.00
Board for 36 weeks		95.00	108.00	126.00
Laundry		15.00	18.00	20.00
		<hr/>	<hr/>	<hr/>
		\$212.50	253.50	\$303.50

Books, stationery and room furnishings are very variable items.

An incidental fee of \$2.50 per semester is charged to students not residing in the college dormitories.

Beginning with 1910 a registration fee of \$5.00 is paid by all students on entrance. Those not having paid this fee will in the second semester of Senior year pay a graduation fee of five dollars.

The athletic fee contributes to expenses incurred in physical training and gives free admission to all intercollegiate games at Gettysburg.

The fee for the course for the Master's degree is \$80.00, of which \$25 is a registration fee and the balance is due one month before the conferring of the degree.

Laboratory Fees

The annual fees based on three laboratory periods per week are:

Biological laboratory	\$14.00
Chemical laboratory	18.00
Physical laboratory	12.00
Mineralogy for the course	3.00
Annual fees for Junior and Senior years in Engineering courses	12.00

In addition to the chemical laboratory fee a charge is made for apparatus broken or not returned in good condition. In the physical laboratory a charge is made for material used and damage to apparatus.

Rooms and Heating

The following rules govern the assignment of rooms in the college dormitories:

All rooms shall be declared vacant on May 1st of each year. Students desiring to remain in the rooms they have been occupying shall have that right provided they make written application to the Registrar during the first week of May. During the

second week of May all rooms not reserved in this manner shall be assigned to the members of the several classes beginning with the Junior class. The order of the choice in the classes shall be determined by lot conducted by the Registrar and the President of the Student Council.

Students are not allowed to change rooms during term time except by special arrangement with the Registrar.

The full annual rental, including heating, is given below for each room in the dormitories, occupants dividing the rental. Not more than two persons are allowed to occupy one room or suite—except in several of the larger suites. In Pennsylvania Hall the designations are E. for east division, M. for middle division, and W. for west division. S. indicates South College Hall.

\$18.00: 4, 6 W; 4, 6, 8 E.

\$20.00: 5, 7 W; 5, 7, 9 E.

\$23.00: 1, 3 W; 1, 3 E.

\$32.00: 3, 4, 5 M.

\$34.00: 2 W; 36 S.

\$35.00: X S.

\$38.00: 14, 15, 16, 17, 18, 19, 24, 25, 26, 27, 28, 29, 34, 35, 36, 37, 38, 39 E; 6, 11, 16 M; 12, 13, 14, 15, 20, 21, 22, 23, 28, 29, 30, 31 W.

\$44.00: 22, 23, 24, 25, 30, 31, 32, 33 S.

\$48.00: 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33 E; 8, 9, 10, 11, 16, 17, 18, 19, 24, 25, 26, 27 W.

\$49.50: 26, 27, 28, 29 S.

\$50.00: 9 M.

\$55.00: 20, 21, 34, 35 S.

\$60.00: 8, 10, 12, 14, 18, 20 M.

\$80.00: 17 and 19 M; 21 and 22 M. (Suites of two rooms).

\$82.50: 1, 2, 3, 4, 5, 6, 7, 8 S.

\$95.00: 10 and 12, 11 and 13, 15 and 17, 16 and 18 S. (Suites of two).

\$140.00: 9, 19 S. (Suites of three).

Rooms 3, 4, 5, 8, 10, 12, 14, 18 and 20 M include a large study and a good-sized bed-room. Even numbers in Pennsylvania Hall except 22, are on the north side of the building.

MATERIAL EQUIPMENT

Libraries

The College Library contains over 18,750 volumes, besides numerous unbound pamphlets. It is a regular depository of the United States Government and the Government of the State of Pennsylvania. Several hundred volumes of public documents are annually received from these sources.

The Library is available, without charge, to all students under established regulations. During term time it is open for consultation and the drawing of books four hours each week day, except on Saturday, when it is open for two hours. The librarian and his assistant are always ready to give aid to students. It is intended to further increase the opportunities for the use of the library and to enhance its general usefulness by means of a systematic organization and the building up of a complete and attractive library of reference.

The income of a fund invested for the purpose provides for needed additions.

In view of the great expense involved in the purchase of even the most necessary works in science and literature, the generous aid of the alumni and friends of the college is especially invited to the increase of this fund and the establishment of new ones.

In the same hall with the College Library are the Libraries of the Literary Societies. They comprise a large number of well selected and standard volumes, which are annually increased through the income of separate funds. The Philomathean Library contains at present over 6,850 volumes; the Phrenakosmian Library over 6,050 volumes. These libraries are accessible to the members of the societies under their respective regulations, and are open for the issue of books on Wednesday at 4 P. M., and Saturday at 10 A. M., during term time.

Reading Room

The Reading Room is well supplied with daily and weekly papers and leading literary and scientific periodicals, thus enabling the student to become acquainted with current events and contemporary scientific, literary and other cultural movements. A fee of \$1.50 is charged toward its maintenance.

Laboratories

The Biological Laboratories on the second floor of Recitation Hall, consist of two large well-lighted communicating rooms. They are supplied with twenty-five fine microscopes and all the appliances necessary in carrying on the work of the course outlined in the department of biology. Further apparatus will be added next year to facilitate work in Bacteriology, for the courses in Municipal Engineering and Hygiene.

The Chemical Laboratories in the Chemical Laboratory Building, as described on page 81, are amply equipped with all the conveniences and apparatus and supplies that are desirable in the requirements for general and analytical chemistry, including work in organic preparations, proximate analysis, examination of water and other special subjects.

The Physical Laboratory. The lecture room is provided with a large table with sink, water, gas, and electrical connections; apparatus supports, blackboard, charts, black curtains, and a hand-painted screen for stereopticon work. The laboratories, comprising four rooms for general work, besides photographic dark room, store room and storage battery room, and the lecture apparatus room are equipped with modern and carefully selected apparatus for both elementary and advanced work. Alternating and direct electric current is supplied at different points by means of a central switch board, a motor generator and storage battery. The apparatus includes a Geryk double cylinder oil immersion air pump, high grade balances, apparatus illustrating mechanical principles and elastic constants, moments of inertia and harmonic motion, a spectrometer, photometer, and stereopticon; and in electricity, D'Arsonval galvanometers, Wheatstone

bridges, potentiometer, voltameter, tangent galvanometer, standards of resistance, capacity, electromotive force and self-induction, ammeters and voltmeters for direct and alternating current (all of the best German and American make); a complete dynamo and motor set illustrating different styles of direct and alternating current machines (induction, synchronous, three phase, etc.); an induction coil giving an 8 inch spark, high frequency coils, electric wave apparatus, and telegraph, telephone, and wireless telegraph outfits, and Kathode ray and X-ray tubes.

Museum

The Museum contains varied collections of fauna and flora and minerals, all of which are freely used in instruction. The Mineralogical Cabinet contains over 6,000 specimens, including not only very full suites of the more common and more important minerals but also good specimens of many of the rarer minerals. The collection in Lithology numbering 3,000 specimens, and of iron in Metallurgy, have, by recent additions, become fairly representative in the most important departments of these sciences. The Botanical collection of 6,000 specimens, mainly presented by Miss Elizabeth C. Morris, of Germantown, Pa., is well arranged and contains a full representation of American Flora. A beginning has been made of a Chemical Museum—to contain specimens of raw and manufactured materials in chemical industries. Friends of our institution can greatly aid us by additions to these collections.

Buildings

Pennsylvania Hall, erected in 1836-38, was remodeled and improved in 1889. It contains eighty-six rooms for students, many of them *en suite*, so that those who may wish to do so can have separate study and sleeping rooms. In this building are the reading rooms of the Literary Societies and the large room used by the College Y. M. C. A. These rooms are heated by steam, and water pipes and lavatories connected with the college system of water works are on the first floor.

South College, erected in 1897, is a building of three stories containing rooms for about fifty students. It is finished entirely in hard wood, is heated with steam, has hot and cold water on each floor and lavatories in convenient places. The first floor has eight rooms, each with open fire place, tile hearth and spacious closets. These rooms may be used by one or two occupants, as preferred. On the second floor all rooms are *en suite*, each suite consisting of a study with one bed-room or two. These are also provided with hearths, closets, etc. The third floor is divided into sixteen single rooms.

The Recitation Hall, erected in 1888-89, is used for general college purposes. On the first floor are the library room and office, the President's office, the reception room, and recitation rooms. The second floor has recitation rooms. The third floor has in the front center a large museum room with valuable collections. In the rear center are a mineralogical laboratory and additional recitation rooms. In the north wing is the hall of the Philomathean Society, in the south wing the hall of the Phrenakosmian Society. In the basement is the laboratory of the Department of Physics with the recitation rooms above it.

The Brua Memorial Chapel, erected in 1889-90, is the gift of the late Col. John P. Brua, U. S. A., as a memorial to his parents. This building is used for morning prayers, for Commencement exercises, lectures and other occasions requiring a large audience room.

The Chemical Laboratory is a frame building, erected in 1872 and in 1890 converted to its present use. It contains on one floor a large lecture room, an office, store-rooms, chemical-room, balance-room, and two laboratories—providing for one hundred and twelve persons working individually. The building is fitted with the most approved appliances; gas and water at each desk; there are ample hoods, a water-distilling apparatus and large sand bath, and other necessary apparatus. The balance-room contains balances set on walls especially built for them. In the basement and on the attic are store-rooms.

The Astronomical Observatory, erected in 1875, is furnished with an achromatic telescope, having an object glass of six and one-half inches, with a transit instrument, chronometer and other appliances.

The Gymnasium has on the first floor ample dressing rooms and bathing facilities, and a baseball cage. On the second, or main floor, a class of sixty members can be accommodated for gymnastic drill. The selection of specialized apparatus in light and heavy gymnastics is varied and complete. The Professor's office where all physical tests and measurements are taken, is also on this floor, and is furnished with a full set of anthropometric apparatus.

On the gallery there is a first-class Roberts' patent running track with seating accommodations for visitors.

The gymnasium is open at stated times every afternoon and evening and Saturday all day, aggregating twenty-four hours each week, apportioned between regular class practice and general practice.

The Boiler House supplies the steam required for heating all the college buildings, and has capacity for more.

The Athletic Field. Immediately north of the college buildings is the athletic field, which is carefully graded and securely inclosed and covers an area of over seven acres. It affords room and facilitates for all kinds of out-door sports. Recently the Blough running track has been built.

Besides these buildings there are on the campus the President's house, a double house for professors, and four halls erected by Greek Letter Societies.



STUDENTS' INTERESTS

Literary Societies

Two literary societies are connected with the college, the Philomathean and the Phrenakosmian. These exert a favorable influence in the intellectual and social culture of their members. The exercises consist of essays, orations, debates and music. The practical acquaintance with parliamentary law here formed makes these societies the best schools for free citizenship. The halls occupy two wings on the third story of the Recitation Hall, and are conveniently and handsomely furnished. Their sessions are held every Friday evening. No student should omit active membership in one of these societies.

Debates

During the year there are debates between teams representing the different classes, also between teams of the literary societies. The college is also represented in intercollegiate debates.

Y. M. C. A.

The Young Men's Christian Association of the college is an active agent in promoting religious interests among the students. Each Sunday morning and Thursday evening a public meeting is held addressed by invited guests or students. Various Bible classes are organized in college classes, fraternity and other special groups. The Y. M. C. A. Student Secretary has general direction and co-operates with the officers and committees of the association.

Lectures

A series of public lectures will be delivered each year by members of the Faculty and others prominent in some field of general interest.

The Y. M. C. A. conduct, at very reasonable cost, a series of interesting lectures and musical entertainments.

Occasional lectures or addresses by prominent men are delivered before the student body.

Musical Organizations

Active and well trained choral and instrumental musical organizations add to the pleasure of their members and of the audience at their public exhibitions. These clubs usually take a week's trip during the spring of each year.

Athletics

The various college athletic sports are well organized. They are recognized as an important part of college life and receive encouragement, but under such regulations as it is believed prevent them from becoming a possible source of demoralization to the student or interfering with the primary work of the institution. The plan under which these sports are conducted gives the opportunity and encourages every student to regularly take part in some out-door exercise.

Students are permitted to participate in any or all branches of athletics unless parents or guardians have notified the Faculty to the contrary.

Press Club

The Press Club successfully places the various interests of the college before the public through the daily papers.

Publications

THE PENNSYLVANIA COLLEGE BULLETIN is published four times during the year. The February issue is the Announcement Number, the May issue is the Annual Catalogue, the October issue contains the Reports of the President and Treasurer, the December number is the Alumni Number.

"The College Mercury," published monthly in term time under the control of the Literary Societies, is a literary journal sustained by the contributions of students and alumni. "The Gettysburgian," under the private control of students, is published weekly and makes a specialty of college and alumni news. "The Y. M. C. A. Hand-Book," issued at the opening of each college year, gives valuable information and suggestions to incoming students. "The Spectrum," an annual publication of the Junior

class, contains pictorial representations of the college with its various organizations and surroundings as well as useful statistics about students and alumni.

All the periodicals aim at enlarging the means of communication between the college and its graduates, former students and friends. These enterprises are cordially commended to the patronage of those interested in the welfare of the institution.

ADDRESS OF ALUMNI


The College is anxious to keep in touch with its alumni and ex-students not graduates, and requests that any changes in address should be sent to the Registrar.

TEACHERS

The attention of school-boards and others desiring teachers is called to the fact that it is frequently in the power of the Faculty to recommend suitable persons. Many graduates fill successfully important positions in public and private institutions. The college course is arranged to meet the requirements of the School Code of Pennsylvania, thus securing the State Certificate. See page 51.

FORM OF BEQUEST

I give, bequeath and devise to "The Trustees of Pennsylvania College, of Gettysburg, in the County of Adams," in the State of Pennsylvania, and their successors and assigns forever, the sum of ————— (or shares in the bank of —————, or any other personal property or real estate, as the case may be), to be applied to the Endowment Fund of the Institution.

 A bequest to a benevolent corporation, to be legal, must be made at least 30 days before the death of the Testator, in Pennsylvania, and 60 days in New York, and should be signed by two witnesses.

GENERAL ALUMNI ASSOCIATION

The Alumni Association of Pennsylvania College holds its regular annual meeting Wednesday afternoon of Commencement

Week. In 1876 the Board of Trustees granted the Association the privilege of nominating six of their number to membership in the Board, and of maintaining this number as vacancies occur.

The officers of the association are:

President:

Charles S. Duncan, Esq., '82Gettysburg, Pa.

Vice Presidents:

Charles J. Fite, '98Pittsburgh, Pa.

Prof. Charles H. Huber, '92Gettysburg, Pa.

Hiram H. Keller, Esq., '01.....Doylestown, Pa.

Secretary:

Clyde B. Stover, '94Gettysburg, Pa.

Treasurer:

H. C. Picking, '79.....Gettysburg, Pa.

DISTRICT ALUMNI ASSOCIATIONS

The various district alumni associations are active and potential factors in promoting the interests of the college and bringing the college to the notice of prospective students.

STEVENS HALL, GETTYSBURG ACADEMY

PREPARATORY DEPARTMENT

OF

PENNSYLVANIA COLLEGE

INSTRUCTORS

WILLIAM ANTHONY GRANVILLE, PH.D. President	3 College Campus
REV. CHARLES HENRY HUBER, A.M. Principal and Professor of Latin and English	411 Carlisle St.
GEORGE MICHAEL RICE, A.B. Vice Principal and Instructor in German and History	42 Stevens Hall
HARVEY SHEELY HOSHOUR, A.B. Instructor in Greek and English	16 Stevens Hall
JOHN ROGERS MUSSELMAN, A.B. Instructor in Mathematics and Science	23 Stevens Hall
MISS MARY HAY HIMES, A.B. Preceptress	130 Carlisle St.

STEVENS HALL

Aim of the Department

Stevens Hall is located within two minutes' walk of Pennsylvania College. The object of its foundation, which the school has steadily kept in view, was to present to the public an Academy under the control of College Authorities. The advantages of such a combination are obvious. To students who desire to prepare for college it offers a course of preparatory instruction under the eyes of their future professors and in the line of college requirements. The school, being open at all times to visits from instructors in the College, and receiving from time to time their counsel, is able to give to those students who desire it just that preparatory study and drill which will lead to the most profitable and creditable work in the college classes. Time is concentrated upon the studies in which it is needed, and students who have satisfied the requirements in the Preparatory Department are admitted to the Freshman class of the College upon the Principal's recommendation without further examination. On the other hand, students who do not expect to enter College, and who desire only an English education, preparatory to business, teaching, etc., may find in this school an academy of high grade under the supervision of college professors in a college atmosphere, and with free access to the college libraries. Near association with a college is a stimulus to study, and often awakens a desire for a higher education.

Government

The Preparatory Department, though under the control of the College authorities, has a separate building of its own and is under the special direction of a Principal who is aided by a Vice Principal, two Instructors and a Preceptress.

The school seeks to develop intelligent Christian gentlemen. The discipline aims at making the pupil self-governing, and at leading him to habits of self-respect and self-control by train-

ing the judgment, quickening the conscience, and cultivating a delicate sense of honor.

When it is evident that a pupil has no proper appreciation of his opportunities, and is harming the school rather than receiving benefit from it, his parents are asked to remove him.

During study hours students are expected to be in their rooms, which are subject to frequent visits by instructors.

Admission

Students are admitted at any time to the grade for which they have been qualified by previous study. But it is highly important that the student enter the school as early in the course as possible. With the present requirements for admission, a hurried preparation is generally unwise and tends to embarrass the student's future progress, especially in Latin and Greek. Accurate, technical scholarship, at which the school aims, can hardly be secured without long drill, especially in the languages. Without intending at all to discourage those whose circumstances, rather than their desire, lead them to attempt short preparation, all who can are urged to lay the foundation carefully. An additional year at the beginning is always a gain in the ease and success with which future work is done. The fact, however, is recognized that students differ widely in ability and industry, and every opportunity is afforded those who can do so to cover the required work in a shorter time.

No examinations are required for admission, the pupil being at once assigned to the class for which his previous studies seem to have fitted him. If, upon trial, it be found that a mistake has been made, the Principal reserves the right to transfer the student to the proper grade.

Students who have advanced sufficiently in Mathematics and the English branches to enter the Freshman class, but have not studied Latin, Greek or German will here find special arrangements made for their rapid advancement. Girls will be received as day scholars. A study hall has been reserved for their exclusive use and they are not obliged to mingle with the general class except at regular recitation periods. When at school they are

under the care of a Preceptress. Refined homes for them can be secured in town at moderate rates. They will be under the care of the Principal, who will be fully informed of their conduct.

Religious Exercises

On Sunday morning the students of the Preparatory Department are required to attend worship with the college instructors and students in the College Church, or such other place of worship as their parents or guardians may designate. A Bible class is conducted by the Principal every Sunday morning and is a part of the regular course of study. Chapel service is held every morning except Saturday.

Courses of Study

The courses of study are designed to prepare students of either sex, who desire to enter College, for the Freshman class, and to give students who do not expect to enter College, so far as it can carry them, a wide intelligence, true culture, and habits of careful and sound thinking. New and important subjects have been added, and increased attention is given to the lower classes. All students of the school have free access to the College Library, and students over fifteen years of age may join either of the College Literary Societies. There is also a Literary Society conducted by the students of the Department.

There is no musical course in the school, but arrangements for instruction at moderate terms may be made in town without conflict with school work.

A report of the work and conduct of each student is sent home at the end of each term, and at any other time upon request or when the Principal thinks it desirable.

There are two courses, the Classical (with Greek), and the Scientific or Academic (with German and Physics).

The subjects taught are as follows:

CLASSICAL COURSE

Sub-Freshman Class

Periods per week:

5. Latin. Six books of the Aeneid; Prose Composition.
5. Greek. Three books of the Iliad; Prose Composition.
5. Mathematics. Plane Geometry (Wells).
2. English. College Entrance Requirements as arranged by the "National Conference on Uniform Entrance"; Exercises in English (Buehler).
2. History. Grecian History (Myers); Roman History (Myers).
1. Composition. (Wooley's Hand-Book).
1. Physical Culture.

Upper Middle Class

5. *Latin. Six of Cicero's Orations; Prose Composition; Caesar (Completed).
4. *Greek. Four books of Xenophon's Anabasis; Prose Composition.
5. Mathematics. Algebra Completed (Wells).
2. English. College Entrance Requirements.
2. History. English and French History (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

Lower Middle Class

5. Latin. Comstock's First Latin Book, Second Year Latin with Caesar.
4. Greek. White's First Greek Book with Readings.
4. Mathematics. Arithmetic Completed (Wentworth); Algebra (Wells).
4. English. Grammar (Buehler); College Entrance Requirements.
2. History. United States (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

* Special beginners' classes will be organized in this year for students having advanced preparation in other subjects.

Junior Class

4. Latin. Comstock's First Latin Book.
4. Mathematics. Arithmetic (Wentworth).
4. English. Modern English Grammar (Buehler).
3. English. College Entrance Requirements.
4. History and Geography.
1. Composition.
1. Physical Culture.

Spelling is required with the English courses in the four classes.

LATIN SCIENTIFIC COURSE

Sub-Freshman Class

Periods per week.

5. Latin. Six books of the Aeneid; Prose Composition.
3. Physics.
3. German. Grammar; Prose Composition; Reading.
5. Mathematics. Plane Geometry (Wells).
2. English. College Entrance Requirements as arranged by the "National Conference on Uniform Entrance": Exercises in English (Buehler).
2. History. Grecian History (Myers); Roman History (Myers).
1. Composition. (Wooley's Hand-Book).
1. Physical Culture.

Upper Middle Class

5. *Latin. Six of Cicero's Orations; Prose Composition; Caesar Completed.
4. *German. Vos's Essentials and Reading.
5. Mathematics. Algebra Completed (Wells).
2. English. College Entrance Requirements.
2. History. English and French History (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

* Special beginners' classes will be organized in this year for students having advanced preparation in other subjects.

Lower Middle Class

5. Latin. Comstock's First Latin Book; Second Year Latin with Caesar.
4. German. Vos's Essentials.
4. Mathematics. Arithmetic Completed (Wentworth); Algebra (Wells).
4. English. Grammar (Buehler); College Entrance Requirements.
2. History. United States (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

Junior Class

4. Latin. Comstock's First Latin Book.
4. Mathematics. Arithmetic (Wentworth).
4. English. Modern English Grammar (Buehler).
3. English. College Entrance Requirements.
4. History and Geography.
1. Composition.
1. Physical Culture.

Spelling is required with the English courses in the four classes.

Business

A course of instruction is given in Book-keeping when desired. This course is intended to fit young men for a business career.

Physical Exercise

The building is surrounded with large and pleasant grounds adapted to football, baseball, tennis and other out-door sports; and in addition to this the students enjoy all the privileges and instruction of the College Gymnasium.

Buildings and Rooms

The building, located on a slight eminence north of town, is heated throughout by steam, and supplied with pure artesian water. A comfortable toilet room has been placed on the first

floor. The rooms on the third floor are now arranged *en suite* with a broad archway separating the study and sleeping apartments. On the second floor the rooms are separate.

The rooms are furnished with heavy oak wardrobes, bookcases, washstands, tables and chairs. Iron enameled beds, complete with springs and mattresses, are also provided. Two students occupy two rooms, one for studying, the other for sleeping. The rooms are furnished with two single bedsteads, mattresses, chairs, table, bookcase, clothes closet, window curtains and washstand. The other articles needed for the rooms, and to be furnished by the occupants, are as follows: Washbowl and pitcher, mirror, lamp, oil can, slop pail, and carpet. The carpet for the third floor study room is 10½ by 10½, sleeping room 10½ by 11, for a second floor study room 10 by 12½. Each student must also be provided with towels, three sheets for single bed, two pillow slips, a spread, comforts and blankets, and feather pillow.

Expenses

	First Semester	Second Semester
Tuition	\$15.00	\$15.00
Room-rent, use of furniture and steam heat . . .	18.00	18.00
Gymnasium fee	3.00	3.00
General fees	17.00	17.00
*Athletic fee	3.00	3.00
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Total	\$56.00	\$56.00

Beginners' classes in Latin, Greek and German will be organized during the first week in April. Students entering the school at this time are charged two-thirds of the fees for the second semester.

Students do not board in the building, but in clubs and private families at a cost of from \$2.50 to \$3.50 a week. Washing is \$1.75 a month. A deposit of one dollar will be required at the

* By payment of this fee students are entitled to free admission to all inter-collegiate contests. Students who do not feel able to pay the fee can be excused by making application to the proper authority.

beginning of the year to insure the return of keys and the proper care of the room. This will be returned to the student at the end of the year if no damage has been sustained. Day students are charged for tuition, general fees and the athletic fee but the gymnasium fee is optional.

All bills with the Institution must be paid at the beginning of each term. Money entrusted to the Principal for the use of students will be expended as desired.

For further information address,

REV. CHARLES H. HUBER, A.M., *Principal*.



STUDENTS IN COLLEGE 1910-11

SENIOR CLASS

Classical Course

Charles Millard Allabach	Orangeville,	13 E.
Mary Martha Bausch	Everett,	165 Carlisle St.
Earl Jerome Bowman	Millersburg,	17 W.
Clare McClean Davis	Williamsport,	1 E.
Louis Hetzel,	Connellsville,	17 E.
Helen Kendeihart,	Gettysburg,	17 W. Middle St.
Miles Henry Krumbine,	Schaefferstown,	13 E.
Clay Edward Rice,	Myersville, Md.,	5 W.
Joseph Ernest Stermer,	York,	10 M.
Elmer Clayton Stauffer,	York,	4 M.
Newton Daniel Swank,	Johnstown,	10 M.
Harry Morgan Taxis,	Collingswood, N. J.,	1-3 W.
Burnadette Thomas, t	Gettysburg,	240 Chambersburg St.

Scientific Course

Stanley Thomas Baker,	Noxen,	25 E.
Floyd William Bream,	Gettysburg,	R. F. D. 4
Alcone Daniel Breitenreiter,	Pittsburg,	6 S.
Clarence Paul Brown,	Smitsburg, Md.,	30 E.
Frank Munma Comfort,	Philadelphia,	18 E.
Maude Adeline Dorsey,	Motters, Md.,	329 Baltimore St.
George Granville Hatter,	Millersburg,	17 W.
George Fernsler Hocker,	Steelton,	20 S.
Mathias Smyser Lewis,	York,	15-17 S.
William Walker McCaw,	McKeesport,	6 S.
Edgar Grimm Miller, Jr.,	Columbia,	26 S.
Milton Valentine Miller,	Columbia,	26 S.
Milton Miller,	Sand Patch,	11 M.
Richard Jonathan Miller,	Harrisburg,	8 S.
Guy Samuel Raffensperger,	Arendtsville,	16-18 S.
Paul Beverley Stanley Rice,	Lemoyne,	8 M.
John Lawrence Shelley,	Mechanicsburg,	16-18 S.
James Craig Small,	Chambersburg,	5 M.
Rodney Taintor Smith,	Newport,	27 S.
George Mervin Spangler,	East Berlin,	19 W.
John William Weimer,	York,	6 M.

Seniors 34.

JUNIOR CLASS

Classical Course

John Edgar Ainsworth,	Legore, Md.,	Observatory
Wilbur Moses Allison,	York,	22 W.
Charles Walt Beaver,	Academia,	1 S.
Harry Hursh Beidelman,	Harrisburg,	12 E.
Samuel Isett Bloomhardt.	Altoona,	19 E.
Charles Stahle Butt,	Gettysburg,	123 Carlisle St.
Harold Sheely Diehl,	Clearspring, Md.,	17 M.
Paul Melanchthon Enders,	York,	10 W.
Charles Fausold,	Latrobe,	21 M.
John Gabriel Fleck.	Reigelsville,	31-33 E.
Luther Melanchthon Fritsch,	Amsterdam, N. Y.,	12 W.
Margaret Gilliland,	Gettysburg,	153 Carlisle St.
Elmer William Harner,	Littlestown,	24 S.
Ernest Roy Hauser,	Hauser, Md.,	9 E.
Joseph Henry Hurst,	Hanover,	37 E.
Niamond Foreman Keller,	Mifflintown,	N. Washington St.
Daniel Ketterman,	York,	24 W.
Wayne Blessing Krebs,	Hellam,	16 W.
Sara Nancy Lau,	East Berlin,	144 Carlisle St.
Bernard Seiss Lawyer,	Westminster, Md.,	16 E.
Charles Edgar Liebegott,	Martinsburg,	17 M.
Miles Raymond Law Markley,	Altoona,	26 Chambersburg St.
Franklin Joseph Peck,	Holidaysburg,	29 S.
Carl Christian Rasmussen,	Troy, N. Y.,	7 W.
Mary Louise Rowe,	Gettysburg,	201 N. Washington St.
Earl Stockslager Rudisill.	Gettysburg,	18 W.
Stewart Hartman Rudisill,	Gettysburg,	Harrisburg Road.
Raymond Musser Rudy,	Harrisburg,	205 Buford Ave.
Willard Elias Saltsgiver,	Codorus,	30 W.
George Elmer Sheffer,	Bair,	2 W.
Charles Augustus Shilke,	Lineboro, Md.,	2 W.
Walter Daniel Spangler,	Gettysburg,	14 E.
Amy McCurdy Swope,	Gettysburg,	208 Baltimore St.
Norman Jay Gould Wickey.	Littlestown,	21 W.

Scientific Course

Clarence Edgar Bachman,	Westminster, Md.,	21-23 E.
Harry Smith Beetem,	Longsdorf,	33 S.
Mark Brenner,	Iola,	129 Chambersburg St.
Roy Talmage Brumbaugh,	Philadelphia,	Confederate Ave.
Thomas Neely Cashman,	York Springs,	19 W.

Berlin Empfield,	Blairsville,	14 S.
Robert Charles Fluhrer,	York,	14 M.
Joseph Herr Fritchey,	Gettysburg,	15 E. Middle St.
George Edwin Hartman,	Gettysburg,	25 Hanover St.
Clark Wesley Heller,	Wapwallopen,	9 S.
Hoyt Eugene Heller,	Wapwallopen,	9 S.
Henry Kurtz Hufford,	Reading,	34 S.
Herbert Fowler Humphries,	Norwood,	34 S.
Samuel Frantz Lehman,	Greensburg,	8 S.
Wm. Sherman McCullough, Jr	Chicora,	21-23 E.
Edwin Clay Morrow,	Loysville,	6 W.
Amos Sentman Musselman,	Gettysburg,	247 Baltimore St.
Raymond Boyd Nell,	Allen,	24 S.
Emory Durbin Ott,	Gettysburg,	304 Baltimore St.
Orville Mallilieu Ott,	Gettysburg,	304 Baltimore St.
Elsie Louisa Paull,	Weatherly,	115 Buford Ave.
Edred Joseph Pennell,	Mifflintown,	21 S.
John Clويد Rinn,	Indiana,	11-13 S.
Hubert Royer,	Grantsville, Md.,	205 Buford Ave.
Charles Milton Sincell,	Oakland, Md.,	3 S.
William Earle Strevig,	York,	25 S.
Martin Luther Valentine,	Harney, Md.,	4 S.
William Elliot Valentine,	Gettysburg,	Confederate Ave.
Maurice Cornelius Wentz,	Lineboro, Md.,	27 W.
Emmett Robert Woods,	Boiling Springs,	7 W.
Harry Snyder Wolfersberger,	Rockwood,	25 W.
Robert Ezra Yohn,	Harrisburg,	19 S.
		Juniors 65.

SOPHOMORE CLASS

Classical Course

Robert Bruce Albert,	Bloomsburg,	9 S.
Robert Jay Beck,	Columbia, N. J.,	24-26 E.
Homer Bortner,	Brodbecks,	26 W.
Lee Otis Carbaugh,	Arendtsville,	30 S.
Donald Bruce Coover,	Gettysburg,	Springs Ave.
Paul Snyder Creager,	Dillsburg,	31 W.
Earle Kerper Diehl,	Gettysburg,	47 Hanover St.
Joseph Dale Diehl,	York,	27 W.
*Roy Diehl,	Greencastle,	19 E.
John Frederick Dulebohn,	Mason and Dixon,	35 E.
Maude Nicholas Fahs,	East Altoona,	115 Chambersburg St.
*Deceased, Nov. 2, 1910.		

Charles Fleagle,	Thurmont, Md.,	12 M.
Harry Lutz Forscht,	Minersville,	26 W.
Robert Burns Fortenbaugh,	Harrisburg,	12 E.
George Smith Garman,	Brodbecks,	15 W.
James Hellman Gross,	Manchester,	28-29 E.
John Peter Gruver,	York,	20 E.
Earl Justin Haverstick,	Altoona,	3 E.
John Harvey Hege,	Williamson,	6 E.
George Robert Heim,	Loysville,	20 E.
Clyde Leroy Hesson,	Taneytown, Md.,	18 M.
August Herman Hinternesch,	Baltimore, Md.,	20 M.
Claude Talmage King,	Littlestown,	16 W.
Frank Adam Kister,	Coney Island, N. Y.,	12 M.
Daniel Jacob Klinedinst,	York,	20 W.
John Clayton Knaub,	York,	3 M.
Jack Krissinger Kurtz,	Berlin,	9 M.
John Calvin Lang, Jr.,	Hollidaysburg,	26 Chambersburg St.
Paul Yount Livingstone,	York,	9 W.
Robert Leo McNally,	Harrisburg,	4 M.
George Michael Miller,	York,	30 W.
John Russell Nicholas,	Kintnersville,	31-33 E.
John Dress Pannell,	Steelton,	11 E.
Ernest Luther Pee,	Everett,	13 W.
Walter Lee Reitz,	Shanksville,	27 E.
Walter Lawrence Reithmiller,	Dayton, O.,	23 W.
Bertie Clinton Ritz,	Red Lion,	8 E.
James Jay Robbins,	Eyer's Grove,	6 M.
Lillian Margaret Rowe,	Gettysburg,	201 N. Washington St.
Benton Franklin Rudisill,	Gettysburg,	Harrisburg Road
Verna Alverta Schwartz,	Gettysburg,	143 E. Middle St.
David Luther Shaffer,	Johnstown,	28-29 E.
Frank Edwin Smith,	Leechburg,	21 W.
William Edward Tietbohl,	So. Williamsport,	Water St.
Samuel Knox White,	Fairfield,	19 S.
John Wesley Wolfe,	Maytown,	18 M.

Scientific Course

Richard Ashman,	Brooklyn, N. Y.,	Buford Ave.
Maurice Edgar Baker,	Gettysburg,	322 Baltimore St.
John Milton Blocher,	Gettysburg,	28 W. Middle St.
Raymond Lee Boyle,	Ocean City, N. J.,	28 Chambersburg St.
Robert Stewart Brown,	Gettysburg,	114 Baltimore St.

Samuel Reynolds Diehl,	Cashtown,	14 M.
Clyde Early Gerberich,	Middletown,	17 W.
John Christian Haberlen,	Latrobe,	22 M.
John Calvin Hartman,	Gettysburg,	25 Hanover St.
Fred Craft Hetzel,	Connellsville,	15 E.
John Merrill Hepler,	Reading,	10-12 S.
Russell Sutcliffe Hummel,	Hummelstown,	22 E.
George Heck Hummel,	Harrisburg,	20 Baltimore St.
Geo. Eckels Ringwald Kapp,	New Kingston,	23 S.
Doyle Revere Leathers,	Renovo,	5 S.
Paul Markel,	Union Bridge, Md.,	8 W.
Richard Ziegler McGowan,	Harrisburg,	9 S.
Ellis Mellott,	Everett,	32 E.
Martin Lloyd Peters,	Dallastown,	20 M.
Frank Lower Rosenberry,	Stone Church,	24-26 E.
Edward Hood Sincell, Jr.,	Oakland, Md.,	3 S.
Harold Hartman Spangler,	Gettysburg,	48 York St.
John Morris Steck,	Smithsburg, Md.,	38 E.
Charles Harold Steele,	Middletown,	11 W.
Robert Byron Walker,	Myersdale,	9 M.
Samuel Clapham Witherspoon	Guilford Springs,	32 E.
		Sophomores 72.

FRESHMAN CLASS

Classical Course

Arthur Edgar Armitage,	Newark, N. J.,	31-33 E.
Clyde Lower Bream,	Gettysburg,	202 Carlisle St.
John Franklin Bussard,	Myersville, Md.,	5 W.
Raymond Lewis Carbaugh,	Arendtsville,	30 S.
Norman Diehl,	Clearspring, Md.,	17 M.
Clyde Augustus Fasick,	Mifflintown,	14 W.
Owen Lamont Fisher,	Foltz,	York Pike.
Raymond Edward Haas,	Phoenixville,	17 M.
Clement Roscoe Hoffman,	Gettysburg,	166 Carlisle St.
Frank Henry Kramer,	West Hoboken, N. J.,	34-36 E.
Spurgeon Milton Keeney,	Shrewsbury,	100 S. Washington St.
John Roy Lovell,	Glasgow,	9 W.
Joseph McGill,	Thurmont, Md.,	28 W.
Monroe Eugene Miller,	Millersburg,	39 E.
Oscar Berger Noren,	Bridgeport, Conn.,	10 E.
Glenn Fox Poffinberger,	Highfield,	12 M.
Louis Merrill Riddle,	Roaring Springs,	1-3 W.
Titus Calvin Rohrbaugh,	Porter's Siding,	15 W.

Charles Henry Shauck,	York,	30 S.
Margaret Linton Sherrick,	Gettysburg,	60 W. High St.
Carl Emmons Shirey,	Youngstown,	39 E.
Alfred Towne Sutcliffe,	Hummelstown,	22 E.
Marguerite Eleanor Weaver,	Gettysburg,	66 W. High St.
Samuel Evaristus Wicker,	Altoona,	4 W.
Robert Jacob Wolf,	Harrisburg,	32 S.

Scientific Course

Victor Earl Amspacher,	York,	29 W.
Clinton William Beard,	Gettysburg,	209 N. Washington St.
Robert Renfrew Black,	Steelton,	8 M.
Merle Lloyd Bowser,	Vandergrift,	10-12 S.
Frederick Bowman Dapp,	Harrisburg,	7 S.
Van Buren Dayhoff,	Steelton,	8 M.
Roswell Chalmers Doty,	Mifflintown,	35 S.
John Ward Fisher,	Cumberland Valley,	10 E.
John Linn Good,	New Cumberland,	7 S.
Dore White Grazier,	Johnstown,	20 Baltimore St.
George Henry Haberlen,	Latrobe,	22 M.
Harry Kemmerer Harley,	Pennsburg,	2 S.
John Franklin Houck,	Heidlersburg,	166 Carlisle St.
Rudy Faust Hoy,	Schuylkill Haven,	11-13 S.
Ralph Garn Ickes,	Elton,	34-36 E.
Robert Mitchell Klinger,	Gettysburg,	A 1 S.
Homer Wiley McCaw,	McKeesport,	4 S.
Luther Edward McDonnell,	Gettysburg,	132 W. Middle St.
George Edgar Miller,	Gettysburg,	162 York St.
John Croft Myers,	Marion,	5 S.
Thomas Walker Philson,	Berlin,	5 M.
Oliver Kane Reed,	Landsdale,	2 S.
Francis Reynolds,	Ocean Grove, N. J.,	8 W.
John Reigle Rupp,	Gettysburg,	215 N. Washington St.
Thomas Leslie Smith,	Newport,	27 S.
George Harrison Schaeffer,	Leetonia, O.,	28 Chambersburg St.
Samuel Kline Spicher,	Thompstontown,	31 S.
Otho Leroy Thomas,	Gettysburg,	240 Chambersburg St.
Harry Jay Troxell,	Gettysburg,	27 Hanover St.
Ralph Montineau Weaver,	Gettysburg,	66 W. High St.
Marshall Filler Weimer,	Clearville,	26 Chambersburg St.
Anna Vaux Williams,	Harrisburg,	Springs Ave.
Lester Stewart Witherow,	Taneytown, Md.,	16 M.
		Freshmen 58.

Partial Course Students

Harry Aldinger,	Lebanon,	15-17 S.
Charles Alfred Barr,	Altoona,	5 M.
John Bruce Beard,	Gettysburg,	R. F. D., 3.
Claude Francis Beegle,	Everett,	1 S.
Ruth Mary Bream,	Gettysburg,	Springs Ave.
Edgar McCreary Faber,	Gettysburg,	Chambersburg St.
Lloyd Benjamin Ganser,	Palmyra,	36 Water St.
Howard Garvin,	Gettysburg,	Buford Ave.
Anna Gilliland,	Gettysburg,	153 Carlisle St.
Harold Gilman,	Hartford, Conn.,	19 S.
Thomas Vernon Hanuford,	Hillsboro, O.,	25 Chambersburg St.
Jed Donald Hollenbeck,	Mont Clair, N. J.,	25 S.
Robert Holt Hitchins,	Frostburg, Md.,	28 S.
Harold McNair,	Middletown,	22 S.
Oscar Robert Mellin,	Phillipsburg,	26 Chambersburg St.
Clifford Jones Noble,	Graham, Ga.,	25 Chambersburg St.
Erwin Christian Opperman,	Harrisburg,	14 M.
Ralph Alexis Shaffer,	Burkittsville,	166 Carlisle St.
Donald Mark Stock,	Hanover,	28 S.
Louis Richardson Vail,	Germantown,	Water St.
Margaret Grayson Valentine,	Gettysburg,	Confederate Ave.
		Partial Course 21.

Special

Morris William Bushman,	Gettysburg,	Baltimore Pike.
Allen Moore,	Lebanon,	35 S.
		Special 2.

STUDENTS IN THE ACADEMY

SUB-FRESHMAN CLASS

Mary Louise Bayly,	Gettysburg,	301 York St.
George Nieman Book,	Harrisburg,	38 St.
Luther Truman Brumbaugh,	Roaring Springs,	41 St.
Irene Burford,	Kittanning,	162 York St.
John Butt,	Gettysburg,	123 Carlisle St.
Charles Paul Cessna,	Rainsburg,	13 W.
Joseph Warfield Collins,	Two Taverns,	Two Taverns.
Margaret Hoffman Coover,	Gettysburg,	Springs Ave.
William Charles Day,	Baltimore, Md.,	21 St.
Benjamin Franklin Derr, Jr.,	Pottsville,	32 St.
Charles Gruber,	Philadelphia.	34 St.

Harrison Franklin Harbach,	Reading,	32 St.
William Roy Hashinger,	Coatesville,	33 St.
Harold Byron Heinsliug,	Altoona,	28 St.
William Nelson Hesse,	Leechburg,	45 St.
Archie Hollinger,	Gettysburg,	Bendersville Road.
Roy Edward Itnyre,	Boonsboro, Md.,	25 St.
Walter Epley Johns,	Gettysburg,	Emmitsburg Road.
Lloyd Conover Keefauver,	Gettysburg,	101 E. Middle St.
James Franklin Kelly,	Gettysburg,	601 Baltimore St.
Ruth Anna Meales,	Gettysburg,	Bendersville Road.
Viola Elizabeth Miller,	Gettysburg,	267 Baltimore St.
Thomas Hay Nixon,	Gettysburg,	1 Campus.
Helen Evangeline Sieber,	Gettysburg,	37 W. Middle St.
Clarence Carnhan Smith,	Gettysburg,	24 St.
George Emerson Snyder,	New Oxford,	38 St.
Lewis Meutzer Storb,	New Holland,	41 St.
Virginia Townsend Tudor,	Gettysburg,	115 Springs Ave.
Harvey Samuel Weidner,	York Springs,	168 Carlisle St.
Maurice Whitney,	Morristown, N. J.,	3 Campus.
		Sub Freshmen 30.

UPPER MIDDLE CLASS

Guy Milton Appler,	Gettysburg,	26 E. High St.
Benjamin Hamlin Ashman,	Gettysburg,	Buford Ave.
Paul Bowers Beard,	Thurmont, Md.,	40 St.
John William Bream,	Cashtown,	202 Carlisle St.
Jay Wililam Bringman,	Gettysburg,	State Road.
Chester Arthur Dinsmore,	Harrisburg,	25 St.
Fred Samuel Faber,	Gettysburg,	28 Chambersburg St.
Richard Inglesbe Fitzpatrick,	St. Paul, Minn.,	30 St.
Wouter Van Garrett,	Hanover,	143 Carlisle St.
Walter Gerald Groome,	Portage,	
John Wilson Hartman,	Gettysburg,	9 Hanover St.
Stanton Dane House,	Bendersville,	43 St.
Sewell Elmer Kapp,	Biglerville,	44 St.
Arba Talmon Krise,	Waynesboro,	321 Carlisle St.
Samuel Jacob Lightner,	Gettysburg,	Baltimore Pike.
Charles Sterling Longsdorf,	Biglerville,	44 St.
Edward Anthony Longstaff,	Jersey City, N. J.,	39 St.
Roy Joseph Meyer,	Wheeling, W. Va.,	46 St.
Thomas Anderson Monk, Jr.,	Turtle Creek,	40 St.
George Roth,	Jersey City, N. J.,	46 St.
Louis Herman Rehmeyer,	Glen Rock,	27 St.
Jacob Emanuel Rudisill,	Gettysburg,	State Road.

Henry August Runde,	Jersey City, N. J.,	39 St.
Ernest Schwartz,	Gettysburg,	Baltimore Pike.
Riphey T. Shearer,	Carlisle,	
Ross Franklin Shoemaker,	Bedford,	168 Carlisle St.
John Elmer Spangler,	Gettysburg,	101 E. Middle St.
Hugh Iseman Stitt,	Kittanning,	27 St.
Arthur Guy Taughinbaugh,	Gettysburg,	128 York St.
Homer Berkley Walker,	Meyersdale,	11 M.
Roy Alvin Weaner,	Gettysburg,	70 Stevens St.
Erma Ruth Wills,	Fairfield,	Fairfield.
Olin Leroy Wills,	Fairfield,	Fairfield.

Upper Middle Class 33.

LOWER MIDDLE CLASS

Charles Arthure Brame,	Idaville,	45 St.
Charles William Duncan,	Gettysburg,	109 Lincoln Ave.
Stanley Murty Lauer,	Baltimore, Md.,	43 St.
Minot Martineau Shipman,	Johnstown,	29 St.
Marie McClure Spotz,	Hampton,	224 Baltimore St.
Ralph Emerson Stein,	Allensville,	31 St.

Lower Middle Class 6.

JUNIOR CLASS

David McPherson Finley,	New York, N. Y.,	42 St.
Earl Winfield Rhinehart,	Philadelphia,	41 St.

Junior Class 2.
Total in Academy 71.

SUMMARY

Seniors	34
Juniors	65
Sophomores	72
Freshmen	58
Partial Course Students	21
Special Students	2
<hr/>	
Collegiate Department	252
Academy	71
<hr/>	
Total	323

COMMENCEMENT 1910

GRADUATING CLASS

Bachelors of Arts

Charles Greenough Aurand	Harvey Sheely Hoshour
Harry Fridley Baughman	John Trechan Jenkins
Ralph Emrick Bell	Julius Grover Cleveland Knipple
Samuel Edward Bower	Harry Davis Lighty
Ross Eldon Bowers	William Armour Logan
George Edward Bowersox	Guy Emory McCarney
Charles Swartz Bream	Paul Munde Marshall
William Herschel Brown	Carl Frank Miller
Levi Adam Bupp	Paul S. Miller
Eva Pauline Derr	John Rogers Musselman
Roy Victor Derr	Elmer Frederick Rice
Samuel Fausold	John Beatty Ritter
Carl Weiser Fleck	Ralph Edward Rudisill
Edward Niles Frye	Charles Norman Shindler
Robert Harris Gearhart	Henry Kuhns Starner
Paul Koller Gotwald	Levering Tyson
Florence Gertrude Heathcote	John E. Weitzel
Earl Cameron Herman	Herman Diedrich Wolff
Leslie Kauffman Young	

Bachelors of Science

Bruce Maurice Bare	Adam James Hazlett
Herbert Addington Bream	Arthur Douglas Hunger
David Monroe Crist	Joseph Henry Shuff
William Howard Etsweiler	John Harrison Sachs
Maude Lydia Kathryn Fogle	Clarence Frederick Stifel
Harvey Nicholas Gilbert	Harvey Wilmer Strayer
Ernest Henry Yohn	

Bachelors of Arts

Henry E. Harman as of the class of 1885.
Samuel B. Meisenhelder as of the class of 1904.

FOUR YEAR HONORS

Class of 1910

First Honor

Harry Davis Lighty

John Rogers Musselman

Roy Victor Derr

Second Honor

Harvey Nicholas Gilbert (Sc.)

William Armour Logan

Julius Grover C. Knipple

Harry Fridley Baughman

John Trethan Jenkins

Earl Cameron Herman

Carl Weiser Fleck

Samuel Fausold

THREE YEAR HONORS

First Honor

Harvey Sheely Hoshour

Second Honor

Levering Tyson

Maude Lydia Kathryn Fogle (Sc.)

Paul Munde Marshall

John Beatty Ritter

Herman Diedrich Wolff

Graeff Prize

For best essay on Bulwer's "Rienzi"

Harvey Sheely Hoshour
with honorable mention of
William Armour Logan

Class of 1911

Hassler Gold Medal

Junior Latin Prize

Elmer Clayton Stouffer
with honorable mention of
Mary Martha Bausch

Pittsburg Club Prize in Chemistry

Clarence Paul Brown

Prizes in Debate

First Prize

Class of 1910

George Edward Bowersox

Samuel Fausold

Harvey Sheely Hoshour

Second and Third Prizes

Class of 1913

Robert Burns Fortenbaugh John Christian Haberlen
Frank Edwin Smith

Baum Mathematical Prize

Class of 1912

John Gabriel Fleck

with honorable mention of

Joseph Herr Fritchey Carl Christian Rasmussen
Norman Jay Gould Wickey Harold Sheely Diehl

Muhlenberg Freshman Prize

Class of 1914

General Scholarship

Frank Adam Kister

with honorable mention of

Claude Talmage King James Heilman Gross

Reddig Prize in Oratory

Clare McClean Davis

with honorable mention of

Richard J. Miller

DEGREES IN COURSE

Masters of Arts

Rev. George W. Brubaker, '96	Vera L. Wagner, '06
Benjamin F. Hohenshilt, '02	Rev. Daniel E. Weigle, '06
Rev. William C. Ney, '02	Prof. Jesse E. Benner, '07
James G. Diller, '04	Nellie K. Blocher, '07
Rev. Walter S. Bonnell, '05	Sarah B. Brumbaugh, '07
Charles H. Auman, '06	Martha A. Sachs, '07
Helen M. Wagner, '06	Rufus W. Weaver, '07

Masters of Science

David S. Babylon, '03	Clifford C. Hartman, '07
Paul B. Dunbar, '04	Prof. John W. Hershey, '07
Mary A. McAllister, '06	Prof. Lloyd L. Lammert, '07

HONORARY DEGREES

CONFERRED AT COMMENCEMENT, 1910

Doctor of Divinity

Rev. Amos A. Parr, Lock Haven, Pa.

Doctors of Science

Rev. David R. Sumstine, Wilkesburg, Pa.

Rev. Prof. William K. Hill, Carthage, Ill.

George W. Stoner, Surgeon U. S. N., Ellis Island, N. Y.

Masters of Arts

Prof. John T. Brehm, Harrisburg, Pa.

Croll Keller, Harrisburg, Pa.

CONFERRED OCTOBER 20- 1910

Doctors of Divinity

Rev. Anson Phelps Stokes, Jr., Secretary of Yale Univ. Corporation.

Rev. Samuel Meister, pastor, Lancaster, Pa.

Doctors of Laws

Ira Remsen, President of the Johns Hopkins University.

Martin Grove Brumbaugh, Supt. of Public Schools of Philadelphia.

Henry William Harter, Judge in the Courts of Canton, Ohio.

Louis Henry Clement, Esq., Salisbury, North Carolina.

Doctor of Letters

John Page Nicholson, Chairman Gettysburg Battlefield Commission,
Philadelphia.

Doctor of Science

Allen John Smith, M.D., Professor in Med. Dept., Univ. of Pa.

Summary of Graduates

(Exclusive of Honorary Degrees.)

Bachelors of Arts	1434
Bachelors of Science	164
Doctors of Philosophy (holding their first degree from other institutions).	7
Total	1605

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1911-1912

Gettysburg, Pa.

Pennsylvania College
Founded in 1832

Vol. II

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No. 2

COLLEGE CALENDAR—1911-1912

1911

- September 11-12. Monday-Tuesday, Entrance Examinations.
September 13. Wednesday, 8 A. M., College Year begins.
November 29. Wednesday, Noon, Thanksgiving Recess begins.
December 4. Monday, Noon, Thanksgiving Recess ends.
December 21. Thursday, Noon, Christmas Recess begins.
December 29. Friday, 10 A. M., Meeting of Board of Trustees.

1912

- January 3. Wednesday, 7.40 A. M., Christmas Recess ends.
January 29.
to
February 2. Monday to Friday, Examinations closing semester.
February 2. Friday, Noon, First Semester ends.
February 5. Monday, Noon, Second Semester begins.
April 4. Thursday, Noon, Easter Recess begins.
April 9. Tuesday, Noon, Easter Recess ends.
May 21. Tuesday, Junior Latin Examination for Hassler Prize.
June 3-5. Monday-Wednesday, Final Examination of Senior Class.
June 3-7. Examinations closing the year.
June 9. Sunday Morning, Baccalaureate Sermon, by President Granville.

- June 9. Sunday Evening, Discourse before Y. M. C. A. by Robert Weidensall, Class of '60, General Secretary Y. M. C. A., New York.
- June 10-11. Monday-Tuesday, Entrance Examinations.
- June 11. Tuesday, 8 A. M., Meeting of Board of Trustees.
- June 11. Tuesday, 10 A. M., Junior Oratorical Contest for Reddig Prize.
- June 11. Tuesday Afternoon, Senior Class Day.
- June 11. Tuesday Evening, President's Reception.
- June 12. Wednesday, 9 A. M., Commencement Exercises. Orator Hon. H. M. Claybaugh, L.L.D., Class of '77, Washington, D. C.
- June 12. Wednesday, 12 M., Ceremonies in Naming of Glatfelter Hall. Address by Emeritus President H. W. McKnight, D.D., LL.D.
- June 12. Wednesday, 1 P. M., Alumni Collation.

Summer Vacation

- September 9-10. Monday-Tuesday, Entrance Examinations.
- September 11. Wednesday, 8 A. M., College Year begins.
- November 27. Wednesday, Noon, Thanksgiving Recess begins.
- December 2. Monday, Noon, Thanksgiving Recess ends.
- December 20. Friday, Noon, Christmas Recess begins.
- 1913.
- January 2. Thursday, 7.40 A. M., Christmas Recess ends.
- February 7. Friday, Noon, First Semester ends.
- February 7. Friday, Noon, Second Semester begins.
- June 11. Wednesday, Commencement.

HISTORICAL

The Charter of Pennsylvania College was approved April 7, 1832. The opening paragraphs are:

WHEREAS, the literary and scientific institution in Gettysburg, Adams county, in this Commonwealth, known by the name of Gettysburg Gymnasium, is resorted to by a large number of young men from different portions of this state, and elsewhere, and promises to exert a salutary influence in advancing the cause of liberal education, particularly among the German portion of our fellow citizens; therefore,

SECTION 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same, That the Gettysburg Gymnasium be, and hereby is erected into a College, for the education of youth in the learned languages, the arts, sciences and useful literature.

SECT. 2. And be it further enacted by the authority aforesaid, That the style and title of said college shall be "Pennsylvania College of Gettysburg" and that it shall be under the management, direction and government of all the subscribers to the funds of said institution, by whose private contributions the said funds have been raised and its present edifice purchased, to wit: John B. McPherson, Thomas C. Miller, Thomas J. Cooper, Samuel Fahnestock, Samuel S. Schmucker, Ernest L. Hazelius, David F. Schaeffer, John G. Morris, Benjamin Kurtz, William Heim, Charles P. Krauth, Frederick D. Schaeffer, J. George Schmucker, J. F. Heyer, Jacob Martin, Abraham Reck, William Ernst, Jacob Medtard, Lewis Eichelberger, Michael Meyerheffer, Jonathan Ruthrauff, Jacob Crigler, John F. Macfarlane, Robert Goodloe Harper, John Herbst, and their successors, to be elected as hereinafter mentioned.

SEC. 3. And be it further enacted by the authority aforesaid, That the said subscribers and their successors, to be elected as hereinafter mentioned, shall forever hereafter be, and they are hereby erected, established and declared to be one body politic and corporate, with perpetual succession in deed and law, to all intents and purposes, whatsoever, by the name, style and title of "The Patrons of Pennsylvania College in Gettysburg, in the County of Adams."

SEC. 4. And be it further enacted by the authority aforesaid, That the aforesaid "Patrons of Pennsylvania College" and their successors shall have power from time to time to elect from their own number or elsewhere, a board of trustees, twenty-one in number (Provided always, That at least three-fourths of them be selected from among the patrons) ; and at elections either for patrons, or trustees, or teachers, or other officers, and in the reception of pupils, no person shall be rejected on account of his conscientious persuasion in matters of religion, provided he shall demean himself in a sober manner, and conform to the rules and regulations of the college.

Two unique features in the establishment of colleges appear in the foundation of this college. First, the college in a large measure grew out of the necessity of properly preparing men for the Theological Seminary, established in 1826 at Gettysburg. This purpose has never lessened and to-day the institution regards this as an important feature of its work and offers special opportunities to young men preparing themselves for theological studies.

Pennsylvania College in its beginnings, its history and its purpose is closely identified with the Lutheran Church.

The other feature is thus stated in the charter :

In addition to the customary professorships in other colleges, there shall be in this institution a German professorship, the incumbent of which shall, in addition to such other

duties as may be assigned him by the board, instruct such young men as may resort to the institution for the purpose of becoming qualified to be teachers of those primary schools, in which according to the Act passed last session, both German and English are to be taught.

While for a number of years there has been no call for the teaching of German in elementary schools—the college has given prominence to instruction in the German language and literature and has made a specialty of preparation for the teaching profession.

Thus in the foundation of the college the demands of the times were carefully considered and ever since the aim has been to meet the special educational needs of our people.

The college began with no endowment, a small building (now a residence on the south-east corner of Washington and High streets), and a small attendance; but there were able instructors who had a well directed enthusiasm for educational work and a large spirit of self-sacrifice, and this combination commanded success from the beginning.

Among the founders of the college special mention should be made of S. S. Schmucker, D.D., Professor in the Theological Seminary at Gettysburg, who was the directing spirit in evolving the Gettysburg Gymnasium into a college and who presided unofficially over the college for two years. In the State legislature were a number of friends of the college, prominent among them Thaddeus Stevens, the father of the public school system of Pennsylvania. Several money grants were made the college by the legislature, which were largely spent in the erection of the building known as Pennsylvania Hall.

In 1834 Charles Philip Krauth, D.D., was elected President and continued till he became professor in the Theological Seminary in 1850. During this time Pennsylvania Hall was erected (1836-8) and used for recitation rooms, dormitory, President's residence and dining hall. In 1846-7 Linnaean Hall, now the gymnasium, was erected largely through the efforts and labor of the students. In 1850 the Lutheran interest in Franklin College at Lancaster, Pa., was transferred to Pennsylvania College

and used in the endowment of the Franklin Professorship of Greek; this transfer also led to an increase to thirty-six in the number constituting the Board of Trustees, which became a self-perpetuating body with life membership.

In 1850 Henry Louis Baugher, D.D., Professor of Greek, was elected President, continuing in office till his death in 1868. During this period were erected the President's House (1846), Stevens' Hall (1867-8), for the use of the Preparatory Department, and the Professors' residences (1867-8). In 1851-4 the Ministerium of Pennsylvania was largely instrumental in gathering funds for the endowment of the German professorship. In 1864, as the results of a special endowment, considerable sums of money were obtained, the chief being from Mr. John E. Graeff, class of '43, of Philadelphia, for the establishment of a professorship of the English language and literature, and from the Ockershausen brothers of New York, for the endowment of a professorship in Science. In 1868 the will of Mr. Davis Pearson of Philadelphia, provided for certain sums, afterwards added to by his sons, for the endowment of the professorship of Latin.

On the death of President Baugher, Milton Valentine, D.D., class of '50, then a professor in the Theological Seminary, was elected President and continued in the office till he returned to the Theological Seminary in 1884. During this period were erected the McCreary Gymnasium (1872) now the Chemical Laboratory, and the Astronomical Observatory, (1874). The alumni consummated a movement which had been in progress for a number of years in collecting funds for the endowment of an Alumni Professorship which later has been assigned to the department of Mathematics and Astronomy. In 1884 a course of study leading to the degree of Bachelor of Science was first offered.

Harvey Washington McKnight, D.D., LL.D., class of '65, was elected President in 1884 and continued till his resignation in 1904. This period was marked by the erection of Glatfelter Hall, named as a memorial to the late P. H. Glatfelter of Spring Grove (1888-9), Brua Chapel (1889-90), the steam plant and water

plant, the remodeling of Pennsylvania Hall, the altering of the McCreary Gymnasium to serve as the Chemical Laboratory, and the Linnaean Hall to serve as a Gymnasium (1889-90). South College was erected in 1897. The will of Mr. William Bittinger of Adams County, in 1887, provided funds for the endowment of the chair of Intellectual and Moral Science. In 1889 the father and brothers of Charles H. Graff, M.D., class of '76, deceased, provided the funds for a memorial foundation of a professorship now devoted to Biology and Hygiene. In 1892 Mr. James Strong of Philadelphia, provided a memorial to his wife in the foundation of the Amanda Rupert Strong professorship of the English Bible and Chaplaincy. In 1891-2 a small number of electives were first offered in the Junior and Senior years. The funds for the grading and equipment of Nixon Athletic Field were provided by a student movement, the field being first used in 1895.

Samuel Gring Hefelbower, D.D., class of '91, for several years Professor of German, was in 1904 elected President and continued in office till 1910. During this time there were established professorships in Romance Languages and in Physics, the Department of Philosophy also being separated from chair associated with the presidency, with the addition to the teaching force of assistants in Mathematics, in English, in Physics, and a second assistant in Chemistry. In part the increased expense was met by an increase in student fees and an increase in the number of students. During this time began the formation of Woman's Leagues—who work in the interests of the college, having as one purpose the providing for the salary of the Y. M. C. A. Secretary.

In 1910 William Anthony Granville, Ph.D., a member of the mathematical faculty of the Sheffield Scientific School of Yale University, was elected President. The inauguration of the new administrative head of the institution occurred in Oct. 1910 and was attended with enthusiasm that promises large results for the material and intellectual progress of the college. Already in Dec. 1910, the first fruits were realized in the foundation of the Burton F. Blough Professorship of Civil Engineering, the de-

partment being named in honor of the largest among several contributors to the fund from Harrisburg, Pa. During the present year a movement has been started for securing an increase of at least \$200,000 to the endowment of the college, of which amount the General Education Board has promised to contribute \$50,000 provided the balance is secured by July 1, 1913, and the debt of the college, \$30,000, is paid before the same date.

The very successful beginning during the last college year of a system of student self-government is in keeping with the constant purpose of the college to develop not only the intellectual growth but also the highest character of its students.

As in the beginning of the college every effort was made to meet the special educational needs of the time and of the community served by the college, so now the establishment of several new courses of study aims to open the college opportunities to an increasing number of young people, who desire a general college training.



LOCATION

Gettysburg is situated in the beautiful rolling area of the red shale belt of Pennsylvania, with its ridges of intrusive rock. A few miles west is the South Mountain ridge of the Blue Mountains. The situation is healthful and there is a good water supply. The town is readily reached from all directions by the Philadelphia and Reading, and the Western Maryland Railways, which connect at Harrisburg, Pa., and Baltimore, Md., with the great railway systems of Pennsylvania and the south.

The community is law abiding and the moral influences are those of the small town as contrasted with the large city, and also there are less distractions from study than prevail in a city.

The historic association of Gettysburg with the Civil War gives the location great additional interest. The events of the Battle of Gettysburg are recorded in inscriptions on several hundred monuments and markers, many of these being of large size and of artistic merit. The U. S. Battlefield Commission has made the field accessible by 35 miles of fine avenues along which are the markings which indicate the battle lines—in some cases the actual entrenchments are preserved. Here also is the National Cemetery where Lincoln made his ever to be remembered dedication speech. Among the thousands of visitors coming annually to the field, are men of national prominence who often speak to the student body. Such surroundings must develop a love of our united country and inspire to better citizenship.

BOARD OF TRUSTEES

Elected

1873. Hon. George Ryneal, Jr.....Martinsburg, W. Va.
 1890. Hon. Samuel McC. Swope.....Gettysburg
 1890. William H. Dunbar, D.D.....Baltimore, Md.
 1892. Thomas C. Billheimer, D.D.....Gettysburg
 1893. John Wagner, D.D.....Hazleton
 1894. Charles M. Stock, D.D.....Hanover
 1894. Matthew G. Boyer, D.D.....Chicago, Ill.
 1896. John B. McPherson, Esq.....Boston, Mass.
 1897. John Jacob Young, D.D.....New York, N.Y.
 1897. William A. Shipman, D.D.....Johnstown
 1898. Henry C. Picking.....Gettysburg
 1899. Charles F. Stifel.....Pittsburgh
 1899. Henry H. Weber, D.D.....York
 1902. Charles Baum, M.D., Ph.D.....Philadelphia
 1905. Milton H. Valentine, D.D.....Philadelphia
 1906. Samuel G. Hefelbower, D.D.....Frostburg, Md.
 1906. George E. Neff, Esq.....York
 1907. Luther P. Eisenhart, Ph.D.....Princeton, N. J.
 1907. Martin H. Buehler.....Baltimore, Md.
 1907. Hon. R. William Bream.....Gettysburg
 1907. Frederick H. Bloomhardt, M.D.....Altoona
 1907. Alpheus Edwin Wagner, D.D.....Altoona
 1908. William J. Gies, Ph.D.....New York, N. Y.
 1908. William L. Glatfelter.....Spring Grove

1908.	Frank E. Colvin, Esq.....	Bedford
1908.	John F. Dapp.....	Harrisburg
1908.	George B. Kunkel, M.D.....	Harrisburg
1908.	Jacob A. Clutz, D.D.....	Gettysburg
1910.	William A. Granville, Ph.D., LL.D.....	Gettysburg
1910.	Charles J. Fite.....	Pittsburgh
1910.	Burton F. Blough.....	Harrisburg

Officers

President.....	William L. Glatfelter
Vice President	Hon. Samuel McC. Swope
Secretary	Charles M. Stock, D.D.
Treasurer	Henry C. Picking



THE FACULTY

- WILLIAM ANTHONY GRANVILLE, PH.D., LL.D. 3 Campus
 President and William Bittinger Professor of Intellectual and
 Moral Science
- HARVEY WASHINGTON MCKNIGHT, D.D., LL.D. 204 Carlisle St.
 President Emeritus
- JOHN ANDREW HIMES, LITT.D. 130 Carlisle St.
 Graeff Professor of English Literature and Political Science
- REV. PHILIP MELANCHTHON BIKLE, PH.D. 2 Campus
 Dean and Pearson Professor of the Latin Language and
 Literature
- EDWARD SWOYER BREIDENBAUGH, SC.D. 227 Carlisle St.
 Ockershausen Professor of Chemistry and Mineralogy
- GEORGE DIEHL STAHLEY, A.M., M.D. Springs Avenue
 Dr. Charles H. Graff Professor of Biology and Hygiene
- HENRY BARBER NIXON, PH.D. 1 Campus
 Alumni Professor of Mathematics and Astronomy
- ALBERT BILLHEIMER, A.M. 108 Springs Avenue
 Acting Franklin Professor of the Greek Language and Literature
- KARL JOSEPH GRIMM, PH.D. 228 Carlisle St.
 Professor of the German Language and Literature
- REV. CHARLES FINLEY SANDERS, A.M. 97 Springs Avenue
 Professor of Philosophy
- LOUIS ALEXANDER PARSONS, PH.D. 250 Springs Avenue
 Professor of Physics

- RAYMOND M. RUDY, A.B.
Instructor in Latin and English
- E. DURBIN OTT, A.B. 304 Baltimore St.
Instructor in Mathematics and Science
- GROVER CLEVELAND KNIPPLE, A.B. 16 Stevens Hall
Instructor in Greek and English
- MISS MARY HAY HIMES, A.M. 130 Carlisle St.
Preceptress in Stevens Hall
- HENRY C. PICKING, A.M., Office Gettysburg National Bank
Treasurer
- REV. SAMUEL FRANK SNYDER, A.B. Theological Seminary
Assistant to President
- MISS SALLIE P. KBAUTH 3 Baltimore St.
Assistant Librarian
- CLYDE B. STOVER, A.M. E. Lincoln St.
Registrar and Secretary of the Faculty
- REV. NORMAN G. PHILLIPY
Physical Director and Athletic Coach
- MISS RACHEL GRANVILLE 3 Campus
Secretary to the President



COMMITTEES OF THE FACULTY

Class Officers.

Senior Class	Professor Stahley
Junior Class	Professor Sanders
Sophomore Class	Professor Nixon
Freshman Class	Professor Wentz

Entrance Conditions.—Dean Bikle, Professors Nixon and Grimm.

Library.—President Granville and Professor Grimm.

Bulletin.—Professors Breidenbaugh, Himes, Parsons and Huber, President Granville, ex officio.

Hour Schedule.—Professors Breidenbaugh and Grimm.

Students' Publications.—Professors Sanders, Grimm and Dean Bikle.

Supervision of Finance of Students' Publications.—Dean Bikle, Professors Himes and Breidenbaugh.

Lectures.—Dean Bikle and Professor Wentz.

Advanced Degrees.—Professors Grimm, Bikle and Stahley.

Representative on Athletic Council.—Professor Wentz.

Y. M. C. A. Secretary.—Rev. H. A. Rinard.



Student Council

Harry H. Biedelman, '12.
Berlin Empfield, '12, President.
Charles Fausold, '12, Corresponding Secretary.
Ernest R. Hauser, '12, Vice President.
George E. R. Kapp, '13, Marshall.
Martin L. Peters, '13.
Walter L. Reitz, '13, Recording Secretary.
Clyde A. Fasick, '14.
Robert J. Wolfe, '14.
Wright, '15. Messenger.

ADMISSION

Applicants for admission are required to present evidence of good moral character. An applicant from another school is required to present a certificate of good standing in, and regular dismissal from the institution which he or she has left.

Women are admitted as day pupils, to all the courses of study.

Methods of Admission

Entrance examinations are held on the Monday and Tuesday before the opening of the College year and on the Monday and Tuesday of Commencement Week. The method of admission is by either examination or certificate from approved secondary or high schools or from private instructors. This certificate must state the amount of work done in, and the time given to each subject, with the grades received.

Blank admission certificates can be obtained from the Registrar. These certificates should be filled out and returned to the Registrar as early as possible, at least several days before the opening of the college work.

The Committee on Entrance, from these certificates and by personal interviews when necessary, determines the standing of the applicant.

Each applicant pays to the Treasurer a registration fee of \$5.00. On submitting the receipt for this payment to the Registrar the applicant is informed of the action of the Entrance Committee and given a statement of conditions, if any are found necessary. The student now files with the Registrar a statement of the Group of Studies he proposes taking.

To receive the full advantage of the college course a thorough entrance preparation is indispensable. Students imperfectly prepared for the class they enter do not make satisfactory progress in their work.

Subjects for Admission

The subjects to be presented for admission to the Freshman class are divided into two groups, from which a total of fourteen (14) units are required.

The subjects of Group A, comprising five (5) units, are required of all students.

From Group B the applicant selects nine (9) units under the conditions stated in connection with each group of college studies on pages (28-31). Other entrance units may be allowed in special cases.

The units are based on the requirements of the College Entrance Examination Board.

Group A—(Required of all Candidates)

English..... 3 units

Mathematics.

A Algebra 1 unit

B Plane Geometry 1 unit

Group B—(Elective)

*Greek.**

A Grammar and four books of Xenophon..... 2 units

B Composition, three books of Homer, and
sight translation 1 unit

Latin.

A Grammar and four books of Caesar..... 2 units

B Composition and six books of Cicero..... 1 unit

C Six books of Vergil..... 1 unit

German.

Two years 2 units

French.

Two years 2 units

*See page 47 for Beginning Greek in College.

Mathematics.

C	Advanced Algebra.....	1/2	unit
D	Solid Geometry	1/2	unit
E	Plane Trigonometry	1/2	unit

Mechanical Drawing.

One year.....	1	unit
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History.

United States	1	unit
England	1	unit
Ancient	1	unit
Mediaeval	1	unit

<i>Geography, Political and Physical</i>	1	unit
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Chemistry.

One year	1	unit
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Physics.

One year	1	unit
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Botany.

One year	1	unit
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Zoology.

One year	1	unit
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NOTE.—Those offering college work for entrance will substitute other subjects during the college course.



ADMISSION SUBJECTS IN DETAIL

English

In English the study of the following books, recommended by the National Conference on Uniform Entrance Requirements, will be required for 1912-1913:

A Reasonable familiarity with the substance of the work:

The following are preferred, though alternatives are accepted: Shakespeare's *Merchant of Venice* and *Julius Caesar*; Addison's *Sir Roger de Coverley Papers*; Goldsmith's *Deserted Village*; Scott's *Ivanhoe* and *Lady of the Lake*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *Passing of Arthur*; Ruskin's *Sesame and Lillies*.

B More careful and specific study:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Washington's *Farewell Address*; Webster's *First Bunker Hill Oration*; Carlyle's *Essay on Burns*.

The candidate will be required to present evidence of a general knowledge of the subject matter and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics designed to test the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books. Questions involving the essentials of English Grammar and the four fundamental principles of Rhetoric will be part of the examination.

No candidate will be accepted in English whose work is notably deficient in spelling, punctuation, idiom, or division into paragraphs.

Mathematics

A Algebra. The four fundamental operations for rational algebraic expressions; factoring, determination of the highest

common factor and least common multiple by factoring; fractions, involution, evolution, radicals and imaginary quantities. Equations of the first and second degree, ratio and proportion, progressions; binomial theorem for positive integral exponents. and permutations and combinations limited to simple cases.

B Plane Geometry. Five Books. Demonstration of theorems and constructions, including rectilinear figures, circles, proportional lines and similar figures; comparison and measurement of surfaces, including triangles, regular polygons and circles; maxima and minima; originals.

C, D, E The entrance requirements in Advanced Algebra, Solid Geometry and Plane Trigonometry are similar to the work done in these subjects in the College Courses as given on page 64.

Mechanical Drawing

One year's work is required and the submission of the drawings done with a certificate from the instructor.

Political and Physical Geography

The requirement in Political Geography is met by any good text-book, in Physical Geography or Physiography, any text-book equivalent to Gilbert and Brigham's Introduction to Physical Geography, Davis' Elementary Physical Geography or Tarr's New Physical Geography.

Greek

A1 Grammar. The candidate must have familiarized himself with the essentials of grammar, namely, the inflections of substantives and verbs; the syntax of cases, and of the moods and tenses of the verb; the simple rules for the composition and derivation of words; the structure of sentences with particular regard to conditional and relative sentences, indirect discourse, and final clauses.

A2 Xenophon. The first four books of the Anabasis.

B1 Prose Composition. The requirements in prose composition involve the ability to translate into idiomatic Greek, continuous narrative based on Xenophon's *Anabasis*, Book II, and other Attic prose of similar difficulty. Due regard must be paid to the principles and practice of accentuation.

B2 Homer. The first three books of the *Iliad* (omitting II, 494-end) or of the *Odyssey*, including the Homeric forms, constructions and prosody.

B3 Sight Translation. One of the most important assets which a student can bring to the study of college Greek is the ability to read easily at sight passages of equal difficulty with the *Anabasis* or the *Hellenica*. For this purpose he should memorize as a working vocabulary, the principal words in Xenophon and the three books of Homer.

Latin

A1 Grammar. Allen and Greenough's preferred.

A2 Caesar's *Gallic War*, Books I-IV.

B1 Prose Composition, including the translation of English passages on Caesar and Cicero.

B2 Six Orations of Cicero, including at least two against Catiline, and the one for Archias, and the one for the Manilian Law.

C Vergil's *Aeneid*, Books I-VI, and so much prosody as relates to Latin versification in general and the dactylic hexameter in particular.

Equivalents will be accepted for work done in Sallust or Ovid or other authors of equal rank.

German

The requirements in German presuppose a systematic course extending over at least two years of school work.

The candidate is expected to be able to pronounce German clearly and distinctly. He must possess an accurate knowledge

of the rudiments of grammar, and should have acquired an elementary German vocabulary. He should be able to translate easy prose and poetry, put into German simple English sentences taken from the language of every-day life and also easy selections from English narrative prose.

French

The requirements in French are similar to those in German, including the ability to pronounce French accurately, to read easy French prose, to put into French simple English sentences taken from the language of every-day life and also easy selections from English narrative prose, and a good knowledge of the rudiments of French grammar.

History

A United States. Montgomery's *Leading Facts of American History*, or its equivalent.

B England. Walker's *Essentials of English History*, or its equivalent.

C Ancient. Myers' *Ancient History*, or its equivalent.

D Mediaeval and Modern. Myers' *Mediaeval and Modern History*, or its equivalent.

Chemistry

The candidate should have such knowledge of the general principles of the science and of the properties of the more important elements as may be obtained by a careful study of a text-book of the scope of Remsen's *Introduction to the Study of Chemistry*, Briefer Course.

The pupil should have performed in the laboratory experiments in number and general character the equivalent of those given in Remsen's *Introduction*. The record of this work must be contained in a note book describing in the pupil's own words the materials used, the apparatus employed (with drawings), the changes occurring and the resulting products with the conclusions properly drawn from the phenomena observed.

This note book must be presented bearing the following endorsement by the instructor. "This note book is a true and original record of experiments actually performed by — in — school during the year —."

Physics

A good high school course, using any standard high school text, covering the simple principles of Physics, descriptive and experimental rather than mathematical, including not less than three class periods and two hours of laboratory work per week for one year. A high school or preparatory course in Physics, laying emphasis on mathematical formulae is not desirable.

Botany

A teacher's certificate showing that a full year of four, one-hour periods a week were devoted to text-book and laboratory study of this subject with the aid of Bergen's *Essentials of Botany* or some other standard book of equal merit. Drawings and note books are required.

Zoology

A teacher's certificate indicating that a full year of four one-hour periods a week were elected in this subject. Davison's *Practical Zoology* or any other standard guide of equal grade will be accepted. Note books and drawings must accompany the certificate.

ADVANCED STANDING

A candidate for advanced standing, in addition to the foregoing studies, is examined in the various subjects which the class he proposes to enter has studied. Credits from Colleges of standing equal to that of Pennsylvania College are accepted.

No one is admitted to the Senior class after the beginning of the second semester of the Senior year.

PARTIAL COURSE STUDENTS

Persons so situated that they are not able or do not wish to pursue a course of study leading to a degree are admitted as partial course students in such subjects as examination may show that the applicant is prepared to pursue with advantage. Such student shall have not less than fourteen units of college work each week.

Students of the Theological Seminary are admitted to single courses in the college.

The Faculty may also admit to one or more single courses such applicants as have special qualifications for the subjects they desire to pursue.



THE GROUP SYSTEM

The courses of study in the college are arranged in groups. These groups are designed to be of equal value in the mental training of the student. This arrangement accomplishes several purposes. It enables the student to select those subjects which are of special value in preparation for subsequent professional study or business. It enables the college to provide for students who do not wish to enter on the older college courses of study. It provides in each group for a general training and broad culture which requires the student not to specialize but to concentrate a fair proportion of his time and energy on one or two related subjects. This gives a fuller training of the mental powers than results from a more diffused and often aimless selection of studies in a too largely elective system.

Each group of studies is described in detail on pages 32-40.

Besides these groups of non-professional courses, provision has recently been made, by the liberality of certain friends, for the establishment of Courses in Civil Engineering and Municipal Engineering.

Value of a Period and of a Unit

In the statement of courses a period, unless otherwise specified, is a weekly exercise for one year. A unit of college work consists of the equivalent of one weekly exercise, either a recitation, a lecture, a laboratory period of two and a half or three hours or an assignment of work on which an examination is held. A lecture having connected with it two laboratory hours counts as one unit and a half.

In the tables, pages 32 to 40, the unit credits are the same as the number of periods, unless otherwise stated.

Group I. Greek and Latin

Entrance requirements: English; Mathematics; Greek A, B; Latin, A, B, C; and two elective units.

This group is largely based on the long established classical curriculum, not however requiring as large an amount of the ancient languages as formerly, thus giving an opportunity for study in other subjects.

This group is specially recommended for those intending to enter the ministerial or legal professions and also provides the necessary foundation for advanced language study.

This group leads to the degree of Bachelor of Arts.

Group II. Latin and Modern Languages

Entrance Requirements: English; Mathematics; Latin A, B, C; German or French or Greek A; History one unit; and two elective units.

In this group the emphasis is laid on the modern languages and provides for those who wish to make a special study of them.

This group is well adapted to preparation for legal or literary pursuits and for teaching.

This group leads to the degree of Bachelor of Arts.

Group III. Latin and Chemistry or Physics

Entrance Requirements: English; Mathematics; Latin A, B, C; German or French; History one unit, and two elective units

In this group emphasis is laid on Chemistry and Physics with the requirement that the student shall give special attention to one of these subjects. The literary training is given by a continuance of Latin during the Freshman year with sufficient time devoted to the modern languages to enable the student to obtain a good command of these languages.

This and the following group are recommended to those who intend to enter on scientific professional studies including engineering or to engage in manufacturing or commercial pursuits, or who intend to teach in these subjects.

This group leads to the degree of Bachelor of Science.

Group IV. Modern Language and Chemistry or Physics

Entrance Requirements: English; Mathematics; two languages, German, French or Latin A, B; and five elective units

(if Latin is offered four) of which not more than two can be in Science.

This group is the same as Group III, except that modern languages entirely replace Latin.

This group leads to the degree of Bachelor of Science.

Group V. Biology, Chemistry and Physics

Entrance Requirements: English; Mathematics; two languages, German, French or Latin A, B; and five elective units (if Latin is offered four) of which not more than two can be in Science.

In this group the student obtains a good foundation in each of the great divisions of scientific study and it is recommended specially to those who intend to enter on medical studies or to teach general science.

This group leads to the degree of Bachelor of Science.

Group VI. Mathematics and Modern Languages

Entrance Requirements: English; Mathematics; two languages, German, French or Latin A, B; and five elective units (if Latin is offered four) of which not more than two can be in Science.

In this group emphasis is laid on mathematical studies and it is specially recommended to those who intend to teach mathematics or to engage in engineering studies.

The mathematical portion of this group can be taken as electives in Group I, by transferring the Physics of the group to the Senior year.

This group leads to the degree of Bachelor of Science.

Group VII. Commerce and Finance

Entrance Requirements: English; Mathematics; German; French and History A, B, C, D, and one elective unit. Commercial Arithmetic may be offered as a substitute for Ancient History.

This group is arranged to meet the needs of those who do not

wish to pursue general scientific or literary studies but desire to prepare themselves for commercial or financial pursuits.

This group leads to the degree of Bachelor of Science.

Group VIII. Civil Engineering

Group IX. Municipal Engineering

Students enter these groups from the Sophomore year of the other courses.



Group I. Greek and Latin

FRESHMAN YEAR.

- | | |
|--|---|
| GREEK 1, 2. <i>Three periods.</i>
Oratory, History: Herodotus,
Thucydides. | MATHEMATICS 1, 2. <i>Three periods.</i>
Solid Geometry, Plane and
Spherical Trigonometry. |
| LATIN 1, 2, 3. <i>Three periods.</i>
Livy, Horace: Odes, Cicero:
De Senectute. | HISTORY 1. <i>Two periods.</i>
Political History of Modern Eu-
rope. |
| ENGLISH 1, 2, 3. <i>Two periods.</i>
Rhetoric, History of American
Literature. | ENGLISH BIBLE 1. <i>One period.</i>
General Introduction. |
| | CHEMISTRY 1. <i>Three lectures and
six laboratory hours.</i>
General Chemistry. |

SOPHOMORE YEAR.

- | | |
|---|--|
| GREEK 3, 4, 5. <i>Three periods.</i>
Education, Epic and Lyric
Poetry. | MATHEMATICS 3, 4. <i>Three periods.</i>
Advanced Algebra, Plane Analy-
tic Geometry. |
| LATIN 4, 5, 6. <i>Three periods.</i>
Cicero: De Amicitia or De Na-
tura Deorum, Horace: Sa-
tires, De Arte Poetica, Tacit-
tus. | GERMAN B. <i>Three periods.</i>
Grammar, Composition, Transla-
tion. |
| ENGLISH 4, 5, 6. <i>Two periods.</i>
History of English Literature. | PHILOSOPHY 1, 2. <i>Two periods.</i>
Psychology, Introduction to Phi-
losophy. |

JUNIOR YEAR.

- | | |
|--|---|
| ENGLISH 10, 11. <i>Two periods.</i>
Shakespeare, Milton, Nineteenth
Century Poets. | EVIDENCES of CHRISTIANITY. <i>Two
periods first semester.</i> |
| GERMAN 1 or 2. <i>Three periods.</i>
Syntax, Composition, Conversa-
tion, Modern Prose, Private
reading, (or Classics). | PHILOSOPHY 3, 5. <i>Two periods.</i>
Logic; Ethics. |
| <i>Or</i>
FRENCH A. <i>Three periods.</i>
Grammar, Composition, Transla-
tion. | PHYSICS A, or 1, or 1 and 2 as ad-
vised. <i>Three and one-half to
five units.</i>
General Physics. |
| | ELECTIVES to complete <i>fifteen units.</i> |

SENIOR YEAR.

- | | |
|---|---|
| POLITICAL SCIENCE 2. <i>Three periods.</i>
Economics, International Law. | ELECTIVES to complete <i>fifteen units.</i> |
| PHILOSOPHY 6-8. <i>Four periods.</i>
History of Philosophy, Theism. | |
| COMPOSITION and SPEAKING <i>throughout the four years.</i> | |

Group II. Latin and Modern Languages

FRESHMAN YEAR.

- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- *GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- | | | |
|-----|---|---|
| One | } | BIOLOGY 1, 2, 3.
General Biology, Zoology. |
| | | CHEMISTRY 1.
General Chemistry. |
| | | PHYSICS A or 1 and 2.
General Physics. |
| | | <i>Three lectures and six laboratory hours. Three and one-half to five units.</i> |
| | | |

SOPHOMORE YEAR.

- LATIN 4, 5, 6. *Three periods.*
Cicero: De Amicitia or De Natura Deorum, Horace: Satires, De Arte Poetica, Tacitus.
- GERMAN 2. *Three periods.*
Classics, Private Reading.
(Or German 1).
- FRENCH 1. *Three periods.*
Grammar, Composition, Translation, Modern Prose, Private Reading.
(Or French A).
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

JUNIOR YEAR.

- GERMAN 4. *Three periods.*
Epochs of German Literature; Collateral Reading.
(Or German 2).
- FRENCH 2. *Three periods.*
Classics, Private Reading.
(Or French 1).
- ENGLISH 7-11. *Four periods.*
Nineteenth Century Prose, Nineteenth Century Novel, The Short Story, Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES of CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 5. *Two periods second semester.*
Ethics.
- ELECTIVES to complete *fifteen units.*

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.* ELECTIVES to complete *fifteen units.*
Economics, International Law.
- MODERN LANGUAGES. *Six periods.*
Advanced Courses.
- COMPOSITION and SPEAKING *throughout the four years.*

* Students offering Greek for admission will take German A, elementary course.

Group III. Latin and Chemistry or Physics

FRESHMAN YEAR.

- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

SOPHOMORE YEAR.

- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- GERMAN 2. *Three periods.*
Classics, Private Reading.
- Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including necessary class exercises.*
Qualitative Analysis.
- PHYSICS 1, 2. *Three lectures and laboratory work. four or five units.*
General Physics.

JUNIOR YEAR.

- Section in Chemistry.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- GERMAN 3. *Three periods.*
Scientific Reading.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 5. *Two periods second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including necessary class exercises.*
Quantitative Analysis.
- PHYSICS 5, 6. *Two lectures and two or three laboratory hours. Two and one-half to three units.*
Chemical and Medical Physics, Light.
- ELECTIVES to complete *fifteen units.*
- Section in Physics.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- GERMAN 3. *Three periods.*
Scientific Reading.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 5. *Two periods second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including necessary class exercises.*
Quantitative Analysis.
- Or
- MATHEMATICS 5. *Three periods.*
Differential and Integral Calculus.
- PHYSICS to aggregate *four or six units.*

SENIOR YEAR.

- Section in Chemistry.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- CHEMISTRY 4. *Three lectures and laboratory work. Four units.*
Organic Chemistry. Also at least *three units* in Analytical Chemistry.
- ELECTIVES to complete *fifteen units.*
PHYSICS 7 is advised.
- COMPOSITION and SPEAKING throughout the four years.
- Section in Physics.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- PHYSICS. *Six or more units*
- ELECTIVES to complete *fifteen units.*

Group IV. Modern Languages and Chemistry or Physics

FRESHMAN YEAR.

GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
*FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.
ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.

MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
HISTORY 1. *Two periods.*
Political History of Modern Europe.
ENGLISH BIBLE 1. *One period.*
General Introduction.
CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

SOPHOMORE YEAR.

GERMAN 2. *Three periods.*
Classics, Private Reading.
(Or German 1).
Or
FRENCH 2. *Three periods.*
Classics, Private Reading.
(Or French 1).
ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.

PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
CHEMISTRY 2. *Nine laboratory hours including the necessary class work.*
Qualitative Analysis.
PHYSICS 1, 2. *Three lectures and laboratory work. Four or five units.*
General Physics.

JUNIOR YEAR.

Section in Chemistry.
GERMAN. *Six periods.*
Scientific Reading, Classical Prose.
ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
PHILOSOPHY 5. *Two periods second semester.*
Ethics.
CHEMISTRY 3. *Nine laboratory hours including the necessary class work.*
Quantitative Analysis.
PHYSICS 5, 6. *Two lectures and two or three laboratory hours. Two and one-half to three units.*
Chemical and Medical Physics, Light.

Section in Physics.
GERMAN 3. *Three periods.*
Scientific Reading.
ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
PHILOSOPHY 5. *Two periods second semester.*
Ethics.
CHEMISTRY 3. *Nine laboratory hours including the necessary class work.*
Quantitative Analysis.
Or
MATHEMATICS 5. *Three periods.*
Differential and Integral Calculus.
PHYSICS. To aggregate *four or six units.*

SENIOR YEAR.

Section in Chemistry.
GERMAN. *Three periods.*
Advanced courses.
POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
CHEMISTRY 4. *Three lectures and laboratory work. Four units.*
Organic Chemistry. Also at least *three units* in Analytical Chemistry.
ELECTIVES to complete *fifteen units.*
PHYSICS 7 is advised.
COMPOSITION AND SPEAKING *throughout the four years.*

Section in Physics.
GERMAN. *Three periods.*
Advanced courses.
POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
PHYSICS. *Six or more units.*
ELECTIVES to complete *fifteen units.*

* Students offering Latin for admission will take the French elementary course.

Group V. Biology, Chemistry and Physics

FRESHMAN YEAR.

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- *FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.
- Or
- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods..*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

SOPHOMORE YEAR.

- GERMAN 2. *Three periods.*
Classics, Private Reading.
- Or
- FRENCH 2. *Three periods.*
Classics, Private Reading.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including class work.*
Qualitative Analysis.
- PHYSICS 1, 2. *Three lectures and laboratory work. Four units.*
General Physics.

JUNIOR YEAR.

- GERMAN 3. *Three periods.*
Scientific Reading.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 5. *Two periods second semester.*
Ethics.
- BIOLOGY 1, 2, 3. *Three lectures and six laboratory hours.*
General Biology, Zoology.
- CHEMISTRY 3. *Nine laboratory hours including class work.*
Quantitative Analysis.
- PHYSICS 5, 6. *Two lectures and laboratory work. Two and one-half to three units.*
Medical Physics, Light.
(Physics 6 may be taken in Senior year).

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- BIOLOGY 4, 5, 6. *Three periods.*
Human Anatomy and Physiology, Sanitation and Bacteriology, Histology and Embryology.
- COMPOSITION and SPEAKING *throughout the four years.*
- CHEMISTRY 4. *Three lectures and laboratory work. Four units.*
Organic Chemistry.
- ELECTIVES to complete *fifteen units.*

* Students offering Latin for admission will take the French elementary course.

Group VI. Mathematics and Modern Languages

(The Mathematics of this group may be elected in Group I).

FRESHMAN YEAR.

- | | |
|--|--|
| <p>GERMAN 1. <i>Three periods.</i>
Syntax, Composition, Conversation, Modern Prose, Private Reading.</p> <p>*FRENCH 1. <i>Three periods.</i>
Grammar, Composition, Dictation, Modern Prose, Private Reading.</p> <p>ENGLISH 1, 2, 3. <i>Two periods.</i>
Rhetoric, History of American Literature.</p> | <p>MATHEMATICS 1, 2. <i>Three periods.</i>
Solid Geometry, Plane and Spherical Trigonometry.</p> <p>HISTORY 1. <i>Two periods.</i>
Political History of Modern Europe.</p> <p>ENGLISH BIBLE 1. <i>One period.</i>
General Introduction.</p> <p>CHEMISTRY 1. <i>Three lectures and six laboratory hours.</i>
General Chemistry.</p> |
|--|--|

SOPHOMORE YEAR.

- | | |
|---|--|
| <p>GERMAN 2. <i>Three periods.</i>
Classics, Private Reading.</p> <p><i>Or</i></p> <p>FRENCH 2. <i>Three periods.</i>
Classics, Private Reading.</p> <p>ENGLISH 4, 5, 6. <i>Two periods.</i>
History of English Literature.</p> <p>MATHEMATICS 3, 4. <i>Three periods.</i>
Advanced Algebra, Plane Analytic Geometry.</p> | <p>PHILOSOPHY 1, 2. <i>Two periods.</i>
Psychology, Introduction to Philosophy.</p> <p>CHEMISTRY 2. <i>Nine laboratory hours including the necessary class work.</i>
Qualitative Analysis.</p> <p>PHYSICS 1, 2. <i>Three lectures and laboratory work. Four units</i>
General Physics.</p> |
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JUNIOR YEAR.

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| <p>GERMAN 3. <i>Three periods.</i>
Scientific Reading.</p> <p>ENGLISH 10, 11. <i>Two periods.</i>
Shakespeare, Milton, Nineteenth Century Poets.</p> <p>EVIDENCES OF CHRISTIANITY. <i>Two periods first semester.</i></p> <p>PHILOSOPHY 5. <i>Two periods second semester.</i>
Ethics.</p> | <p>MATHEMATICS 5. <i>Three periods.</i>
Differential and Integral Calculus.</p> <p>CIVIL ENGINEERING 1, 2, 3, 4.
Field Work in Surveying, Mechanical Drawing and Descriptive Geometry.</p> <p>PHYSICS. Course aggregating <i>four units.</i></p> |
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SENIOR YEAR.

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| <p>POLITICAL SCIENCE 2. <i>Three periods.</i>
Economics, International Law.</p> <p>MATHEMATICS 6, 7, 8. <i>Three periods.</i>
Differential Equations, Solid Geometry, Theoretical Mechanics.</p> <p>COMPOSITION and SPEAKING <i>throughout the four years.</i></p> | <p>ASTRONOMY. <i>Two periods.</i></p> <p>ELECTIVES to complete <i>fifteen units.</i></p> |
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* Students offering Latin for admission will take the French elementary course.

Group VII. Commerce and Finance

FRESHMAN YEAR.

GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.

FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.

ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.

MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.

HISTORY 1. *Two periods.*
Political History of Modern Europe.

ENGLISH BIBLE 1. *One period.*
General Introduction.

One	}	BIOLOGY 1, 2, 3.
		General Biology, Zoology.
		CHEMISTRY 1.
		General Chemistry.
		PHYSICS A, or 1, or 1 and 2 as advised. <i>Three and one-half to five units.</i>

SOPHOMORE YEAR.

GERMAN 2. *Three periods.*
Classics, Private Reading.

Or

FRENCH 2. *Three periods.*
Classics, Private Reading.

ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.

MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.

PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

FINANCE. *Two periods.*
Theory of Accounts, Theory of Investments.

ELECTIVES to complete *fifteen units.*

JUNIOR YEAR.

GERMAN. *Three periods.*
Advanced Courses.

Or

FRENCH. *Three periods.*
Advanced Courses.

ENGLISH 7-11. *Four periods.*
Nineteenth Century Prose, Nineteenth Century Novel, The Short Story, Shakespeare, Milton, Nineteenth Century Poets.

EVIDENCES OF CHRISTIANITY. *Two periods first semester.*

PHILOSOPHY 5. *Two periods second semester.*
Ethics.

POLITICAL SCIENCE 1. *Two periods.*
American Politics, American Government.

COMMERCE. *Two periods.*
Commercial Law, History of Commerce.

ELECTIVES to complete *fifteen units.*

SENIOR YEAR.

POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.

PHILOSOPHY. *Four periods.*
Chosen from Courses 3-8.

HISTORY. *Three periods.*
From Courses 2-6.

BUSINESS. *Two periods.*
Statistics, Business Practice.

ASTRONOMY. *Two periods.*

GEOLOGY. *Two periods.*

COMPOSITION and SPEAKING *throughout the four years.*

Group VIII. Civil Engineering

FRESHMAN AND SOPHOMORE YEARS.

During Freshman and Sophomore years Civil Engineering students are classed under Groups III, IV, V or VI, with the following additional work required during Sophomore year:

- C. E. 1. *Two periods first semester.*
Mechanical Drawing.
- C. E. 2. *Two periods second semester.*
Descriptive Geometry.
Summer Work.
- C. E. 3. *Three weeks immediately preceding the beginning of Junior year.*
Field Work in Surveying in connection with Course 4.

JUNIOR YEAR.

- C. E. 4. *Two periods first semester.*
Elementary Surveying, Office Work.
- C. E. 5. *Two periods first semester.*
Three periods second semester.
Mechanics.
- C. E. 6. *Three periods second semester.*
Railroads. (A).
- C. E. 7. *One period second semester.*
Cement Testing and Highways.
Summer Work.
- C. E. 8. *Three weeks immediately preceding the beginning of Senior year.*
Field Work in Surveying, in connection with Courses C. E. 9 and C. E. 16.
- PHYSICS 3. *Two periods first semester.*
Mechanics.
- PHYSICS 4. *Two periods second semester.*
Thermodynamics.
- MATHEMATICS 5. *Three periods.*
Differential and Integral Calculus.
- MATHEMATICS 9. *Two periods first semester.*
General Astronomy (abridged).
- MINERALOGY 1. *Two periods first semester.*
Crystallography, Determinative Mineralogy.
- ENGLISH 10 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 5. *Two periods second semester.*
Ethics.

SENIOR YEAR.

- C. E. 9. *Two periods first semester.*
Advanced Surveying, Office Work.
- C. E. 10. *Three periods first semester.*
Hydraulics.
- C. E. 11. *Three periods.*
Structural Design.
- C. E. 12. *Two periods second semester.*
Structural Drafting.
- C. E. 13. *Two periods second semester.*
Masonry.
- C. E. 16. *Two periods second semester.*
Railroads. (B).
- C. E. 17. *One period second semester.*
Contracts and Specifications.
- PHYSICS 7. *Two periods first semester.*
Elements of Electrical Engineering.
- GEOLOGY 1. *Two periods first semester.*
Structural and Dynamical Geology.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- GERMAN 3 or
SPANISH. *Two periods.*

Group IX. Municipal Engineering

FRESHMAN AND SOPHOMORE YEARS.

During Freshman and Sophomore years Municipal Engineering students are classed under Groups III, IV, V or VI, with the following additional required work during the Sophomore year:

- C. E. 1. *Two periods first semester.*
Mechanical Drawing.
- C. E. 2. *Two periods second semester.*
Descriptive Geometry.
Summer Work.
- C. E. 3. *Three weeks immediately preceding the beginning of Junior year.*
Field Work in Surveying, in connection with Course 4.

JUNIOR YEAR.

- C. E. 4. *Two periods first semester.*
Elementary Surveying, Office Work.
- C. E. 5. *Two periods first semester.*
Three periods second semester.
Mechanics.
- C. E. 6. *Three periods second semester.*
Railroads. (A).
- C. E. 7. *One period second semester.*
Cement Testing and Highways.
Summer Work.
- C. E. 8. *Three weeks immediately preceding the beginning of Senior year.*
Field Work in Surveying in connection with Courses C. E. 9 and C. E. 16.
- PHYSICS 3. *Two periods first semester.*
Mechanics.
- PHYSICS 4. *Two periods second semester.*
Thermodynamics.
- MATHEMATICS 5. *Three periods.*
Differential and Integral Calculus
- MATHEMATICS 9. *Two periods first semester.*
General Astronomy (abridged).
- MINERALOGY 1. *Two periods first semester.*
Crystallography, Determinative Mineralogy.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods first semester.*
- PHILOSOPHY 5. *Two periods second semester.*
Ethics.

SENIOR YEAR.

- C. E. 9. *Two periods first semester.*
Advanced Surveying, Office Work.
- C. E. 10. *Three periods first semester.*
Hydraulics.
- C. E. 11. *Three periods.*
Structural Design.
- C. E. 13. *Two periods second semester.*
Masonry.
- C. E. 14. *Two periods second semester.*
Sewerage
- C. E. 15. *Two periods second semester.*
Water Supply Engineering.
- C. E. 17. *One period second semester.*
Contracts and Specifications.
- CHEMISTRY. *Two periods first semester.*
Water Analysis.
- BIOLOGY AND HYGIENE 5. *Two periods second semester.*
Sanitation and Bacteriology.
- GEOLOGY 1. *Two periods first semester.*
Structural and Dynamical Geology.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- GERMAN 3 or
SPANISH. *Two periods.*

COURSES OF INSTRUCTION

Those desiring a course in Electrical or Mechanical Engineering write to Registrar for next issue of Bulletin, which will contain a complete outline of these courses.

rected and commented on by the instructor, in personal consultation with the student.

Freshman course throughout the year.

4. History of English Literature. A text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore course. Two periods throughout the year.

5. Composition. Advanced work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore course throughout the year.

6. Elocution. A course of lectures on the subject. Vocal exercises, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore course throughout the year.

7. Nineteenth Century Prose. A study of the development of modern prose. Selected readings from Coleridge, Lamb, De Quincey, Macaulay, Carlyle, Ruskin, Arnold and others.

Junior course. Two periods, first third of year.

Group IX. Municipal Engineering

FRESHMAN AND SOPHOMORE YEARS.

During Freshman Year

Cement Testing and Highways.

Summer Work.

C. E. 8. *Three weeks immediately preceding the beginning of Senior year.*

Field Work in Surveying in connection with Courses C. E. 9 and C. E. 16.

semester.

General Astronomy (abridged).

MINERALOGY 1. *Two periods first semester.*

Crystallography, Determinative Mineralogy.

ENGLISH 10, 11. *Two periods.*

Shakespeare, Milton, Nineteenth Century Poets.

EVIDENCES OF CHRISTIANITY. *Two periods first semester.*PHILOSOPHY 5. *Two periods second semester.*

Ethics.

SENIOR YEAR.

C. E. 9. *Two periods first semester.*
Advanced Surveying, Office Work.C. E. 10. *Three periods first semester.*
Hydraulics.C. E. 11. *Three periods.*
Structural Design.C. E. 12. *Two periods second semester.*
Masonry.C. E. 14. *Two periods second semester.*
SewerageC. E. 15. *Two periods second semester.*
Water Supply Engineering.C. E. 17. *One period second semester.*
Contracts and Specifications.CHEMISTRY. *Two periods first semester.*

Water Analysis.

BIOLOGY and HYGIENE 5. *Two periods second semester.*

Sanitation and Bacteriology.

GEOLOGY 1. *Two periods first semester.*

Structural and Dynamical Geology.

POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.

GERMAN 3 or

SPANISH. *Two periods.*

COURSES OF INSTRUCTION

English

Professor HIMES and Mr. MOSER.

1. Rhetoric. A study of the subject with the aid of a text-book. The aim of the course is (1) to acquaint the student with the principles of good writing, and (2) to lead to an appreciation of good literature. A course in composition is conducted in connection with this subject.

Freshman course. Two periods, first semester.

2. History of American Literature. A study of the subject with the aid of a text-book. Quizzes, collateral reading, papers.

Freshman course. Two periods, second semester.

3. Composition. Weekly themes on assigned subjects corrected and commented on by the instructor, in personal consultation with the student.

Freshman course throughout the year.

4. History of English Literature. A text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore course. Two periods throughout the year.

5. Composition. Advanced work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore course throughout the year.

6. Elocution. A course of lectures on the subject. Vocal exercises, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore course throughout the year.

7. Nineteenth Century Prose. A study of the development of modern prose. Selected readings from Coleridge, Lamb, De Quincey, Macaulay, Carlyle, Ruskin, Arnold and others.

Junior course. Two periods, first third of year.

8. Nineteenth Century Novel. A study of the development and structure of the novel. Lectures, collateral reading, papers. Junior course. Two periods, second third of year.

9. The Short Story. A study of its principles and structure. Selections from Hawthorne, Poe, Stevenson, Kipling, Harte, Twain, O. Henry, Ruth Stuart, Aldrich, Wister and others. Junior course. Two periods, last third of year.

1-9 Mr. MOSER.

10. Course in English Poetry.

A Shakespeare—Dramatic Art. Six plays are analyzed and interpreted, the most suggestive and important passages being read in the class. The writing of dialogue is practiced.

B Milton—Epic Art. Five books of the *Paradise Lost* are read; the views of commentators are examined; Milton's conception of the material and spiritual universe is elucidated; portions of the poem are memorized.

C Nineteenth Century Poets. Selected poems of Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Matthew Arnold, D. G. Rossetti and Swinburne are analyzed for thought and structure.

Junior course. Two periods throughout the year.

11. Writing and Speaking. Required of all students. The rendering of declamations and orations and the preparation of essays and debates are continued throughout the Junior and Senior years. Subjects assigned are suggested either by miscellaneous matters of interest or by topics found in the text-books studied. To secure care and accuracy on the part of the student the written work is read and criticised privately by the instructor.

10 and 11 Professor HIMES.

German

Professor GRIMM, and Mr. SCHAPPELLE.

A An elementary course. For students with no preliminary training in German, but with several years' work in other lan-

guages. It includes the study of grammar, practice in writing and speaking German, translation of prose and poetry, and the memorizing of simple poems.

Three periods throughout the year.

B A course for beginners similar to German A, but especially designed for students in the Greek-Latin Group. For such students it completes the requirements in German for the degree of Bachelor of Arts. Those, however, who have the ministry in view, are advised to take also German 1 or German 2

Three periods throughout the year.

(Omitted 1911-1912).

1. For students who have presented German for admission; also for those who have completed German A. It may, likewise, be taken by students who have passed in German B. This course comprises a brief review of grammar, a careful study of syntax combined with oral and written prose composition, exercises in conversation, and readings, both with previous preparation and at sight, from standard writers of modern German prose. Some time is also given to the reciting of ballads and lyrics. Outside reading may be assigned.

Three periods throughout the year.

2. For students who have passed in German, also open to those students who have attained a grade of not less than C in German B. This course is devoted to the study of selections from classical authors, chiefly from Lessing, Goethe, and Schiller, with some attention to the laws and forms of poetics. It is partly conducted in German. Private reading is required.

Three periods throughout the year.

3. For candidates for the degree of Bachelor of Science, also open to others who have completed German 1. This course consists in the cursory reading in class of German essays of a general scientific character, together with private assignments on some special subject in Science or other college studies.

Two or three periods throughout the year.

4. For those students who have chosen German as their principal subject in the Modern Language-Latin Group, open also to others who satisfy the instructor of their fitness to take it. The work in this course, conducted as far as practicable in German, consists in lectures on the main epochs of the German language and literature, with collateral reading from representative poets and masters of German style.

A From the dawn of the modern period to the present time, with some attention to German literature in America.

Two or three periods, first semester.

B From the beginning of German literature to the dawn of the modern period.

Two or three periods, second semester.

5. An elective course on German literature in the period of the Reformation, with special reference to Luther and the church hymns. Open to advanced students in German.

Hours arranged to suit the convenience of instructor and students.

6. An elective course devoted to the discussion of grammatical topics, advanced composition, and the critical reading of selected texts. Special attention is given to the needs of those students who wish to teach German in the public or secondary schools.

Hours arranged to suit the convenience of instructor and students.

7. A course aiming to give practice in German correspondence, and to widen the student's vocabulary of modern German by means of extracts from newspapers, periodicals, and other suitable reading. It also presents to the student a general view of German land and people, and acquaints him with the history of the Germans in our country. Attention is given to the needs of those looking forward to a business career. As far as practicable, the course will be conducted in German.

Hours to be arranged.

(Omitted 1911-1912).

Deutscher Verein. Opportunity for more extended German conversation and discussions referring to German life, literature, and culture is offered to advanced students in a voluntary German Club, meeting fortnightly from November to April inclusive.

Greek

Professor KLINGER.

1. Oratory. One oration each of Lysias, Isocrates, and Demosthenes will be read and the orations compared with particular reference to the development of Attic prose-style. Collaterally, by means of lectures and a syllabus, the rhetoric of the ancient Greek writers will be studied. These lectures are based on Dionysius of Halicarnassus and Demetrius and go with some detail into the question of stylistic qualities. There will be a complete review of formal grammar with sufficient prose composition to fix the forms of sentence-structure, a constant drill in vocabulary, and, so far as possible, a study of the social conditions in Athens after the Peloponnesian War.

Freshman course. Three periods, first semester.

2. History. Herodotus and Thucydides, with syntactical studies, drill in forms, and studies in the principles of word-composition as before. A thorough analysis will be made of the style of each author, involving the peculiarities of diction, of sentence-structure and of idiom. Particular emphasis will be laid on the speeches of Thucydides as examples of the austere style. While studying Herodotus a great deal of sight-reading will be required and private readings will be assigned to be reported on in the class-room.

Freshman course. Three periods, second semester.

3. Education. Plato's Apology, with large selections from the Socratic dialogues. The aim will be to make the student acquainted with the unique character and method of Socrates, his influence (through Plato and others) on succeeding thought. Three lectures will be offered in the subject of Greek Education, dealing with Ideals, Theories, and the Rise of the Sophists.

4. Epic Poetry. Homer, the Iliad or the Odyssey. The leading episodes will be read rapidly, a study made of the verse and structure of the epic, of Homeric religious conceptions, and of the Homeric question. Lectures and assigned readings will be given on the age of Homer as a period of Greek history.

Sophomore course. Three periods, first semester.

5. Lyric Poetry. Tyler's Selections, followed by either Pindar or Theocritus. The rise of Greek lyric poetry will be traced, its verse-structure studied, and its influence on Greek social life noted. Collaterally a study of the history of Greek literature will be made by means of text and lectures, and the influence of Greek literature on later European literature will be pointed out.

Sophomore course. Three periods, second semester.

6. Tragedy. Aeschylus and Sophocles or Euripides, with the history of the Greek drama; the Greek theatre, method of presenting plays, costumes, masks, etc. Differences in style, motive, and religious conception in the three great tragic poets will be indicated and discussed.

Junior course. Two periods, first semester.

7. Greek Life and Art. The social life of the ancient Greek both private and public, including the history of Greek art. This course does not presuppose a knowledge of the Greek language and is open to all students.

Junior course. Two periods, second semester.

8. Greek Literature in English Translation. Beginning with the epic period, a progressive study will be made of the different types of Greek literature by means of lectures, assigned readings, and the private study of selected works on which reports will be regularly required. The course will cover the subject up to Euripides in Tragedy. Open to all students.

Senior course. Three periods, first semester.

9. Continuation of Course 8. Greek Comedy, History, and Plato.

Senior course. Three periods, second semester.

Beginning Greek in College

An arrangement is proposed by which students can begin the study of Greek in the Freshman year and pursue the subject during the college course. In this case fourteen entrance units are required corresponding to the requirements for Group II.

Latin**Professor BIKLE.**

Allen and Greenough's Latin Grammar and Harper's Latin Lexicon are recommended. Of the smaller dictionaries the student is advised to get the Elementary Latin Dictionary by Charlton T. Lewis.

1. Livy. Selections from Book I, and the Hannibalian War in Books XXI and XXII. Special attention is given to syntax and Livy's peculiarities of style. Collateral reading on the Punic Wars, and lectures on Rome and Carthage.

Freshman course. Three periods during the first semester to the Christmas vacation.

2. Horace. Selections from the Odes, including a critical interpretation with special attention to the Horatian meters and the mythological and historical allusions of the text. Berens' Hand-Book of Mythology is recommended. Collateral reading on Horace as a lyric poet.

Freshman course. Three periods from the beginning of January to the last of March.

3. Cicero. The *De Senectute* will be read with thorough drill in syntax, special attention being given to the mode uses of the Latin Subjunctive.

Freshman course. Three periods from the last of March to the close of the academic year.

N. B. During part of the Freshman year there will be, in connection with the reading of the Latin text, drill in Latin Prose Composition, embracing a rapid review of Latin syntax, with oral and written practice in the principles involved.

4. Cicero. The *De Amicitia* or the *De Natura Deorum*. Rigid drill in syntax will be continued with training in reading the Latin text with expression. Collateral reading of the life and times of Cicero. Informal lectures on Cicero's philosophical views.

Sophomore course. Three periods a week during the first semester to the Christmas vacation.

5. Horace. *Satires* and the *De Arte Poetica*. After the study of some selected satires the *Ars Poetica* is read, and each student is required to prepare a written analysis of the poem. A review of the dactylic hexameter versification.

Sophomore course. Three periods from the beginning of January to the last of March.

6. Tacitus. The *Agricola* or selections from the *Annals*. Along with the translation of the text there will be a study of the times in relation to the literature of this period, and special attention will be given to the characteristics of the Silver Age Latinity.

Sophomore course. Three periods from the last of March to the close of the year.

7. Quintilian. Tenth Book of the *Institutes*. The student is required to give a close study of the terms used by Quintilian in literary criticism, and to make a summary and classification of the Greek and Roman authors.

Junior course. Two periods during the first semester to the Christmas vacation.

8. Juvenal. Selected *Satires*. With full explanations of the text, and collateral reading on the private and social life of the Romans of the Empire. Followed by a short course in Roman Antiquities.

Junior course. Two periods from the beginning of January to the close of the college year.

9. Terence or Plautus. The *Andria* of Terence or the *Captivi* of Plautus. The *Dramatis Personae* are assigned

to special members of the class and the parts rendered both in Latin and English. Informal lectures on the Roman theatre; also on the origin and development of the Latin drama and the value of the Roman comedy to the philologist and the student of Roman life.

Senior course. Two periods for twelve weeks.

10. Latin Literature. A course of lectures embracing a general survey of the whole field, and aiming to trace the rise and subsequent development of the various kinds of prose and verse among the Romans, with special attention to the writers of the Golden and Silver Ages. Or,

Roman History. A course of lectures covering the period from 150 B. C. to 100 A. D.

Senior course. Two periods for ten weeks:

11. Roman Law. Morey's Outlines as the chief text-book. After a careful study of the historical development and content of Roman Law, a paper is required from each member of the class on a subject assigned for special investigation. Or,

Roman Constitutional History. The subject is pursued with the aid of a text-book.

Senior course. Two periods for fourteen weeks.

ROMANCE LANGUAGES

French

Mr. SCHAPPELLE.

A An elementary course for students who have not presented French for admission. For students in the Classical department, or in Science departments requiring Latin, it satisfies the requirements in French for the baccalaureate degree.* This course includes careful drill in pronunciation, the study of the essentials of grammar with constant exercises in turning English into French, and the translation of easy French texts.

Three periods throughout the year.

*Students who have the ministry in view may substitute German 7 or 11.

1. An intermediate course for students who have presented French for admission, also open to those who have passed in French A. This course comprises the study of **grammatical** principles, composition, exercises in pronunciation, dictation, and readings from standard writers of modern prose. Outside reading may be assigned.

Three periods throughout the year.

2. Advanced course. Open to all students who have completed with credit French 1, or who have done equivalent work. This course is devoted to rapid reading of French classics, with special reference to Corneille, Racine, Moliere, Voltaire. Some time is also given, during the second semester, to more difficult representative prose. Private reading is required.

Two or three periods throughout the year.

3. A course in advanced composition and conversation, elective only for such students who satisfy the instructor that they are qualified to take it. This course includes practice in the writing of French letters.

One period throughout the year.

Italian

Professor GRIMM.

1. Elementary course. Open to those students who have completed the requirements in French. This course aims to give the student a thorough training in the rudiments of the Italian language and to enable him to read ordinary Italian with ease and accuracy.

Three periods throughout the year.

Spanish

Professor GRIMM.

1. Elementary course. Open to those students who have completed the requirements in French. This course is intended

for those who desire a knowledge of the essentials of the Spanish language, either for literary work or for a business career.

Three periods throughout the year.

The courses in Italian 1 and Spanish 1 are offered in alternate years.

Comparative Philology

Professor GRIMM.

1. A course open to advanced students, dealing with the principles of Linguistic Science.

One period throughout the year.

2. Beginners' course in Sanskrit. Open to advanced students. This course includes the study of grammar and the interpretation of an easy text from Lanman's Reader.

Two periods throughout the year.

(Omitted 1911-1912).

Biblical Department

Professor WENTZ.

1. General Introduction to the English Bible. This course aims to bring to the student a sympathetic knowledge of the life and thought of that nation which has most vitally influenced our own civilization. To do this reference must be made to Biblical history and geography. But the chief object is to acquaint the student with the Bible as the record of the advance and culmination of the highest religious consciousness of the human race. The distinctive forms of thought contained in the Bible from the beginnings of Hebrew history down to the close of the Apostolic Age are studied in succession. The original message of the writers is sought out and translated into the logic of the Occidental mind. This course is of necessity only introductory, but it is intended to show that a knowledge of Biblical thought and literature is an essential and integral part of a liberal education.

Freshman course. One period throughout the year.

2. *Literary Study of the Bible.* The Bible is studied as a body of English literature and the sacred writings are subjected to a morphological analysis. The study of the literary forms is entirely independent of the historical investigation. The distinctive types of literary structure in the Bible as presented by Moulton in his *Modern Reader's Bible* are studied in detail and their permanent literary value is noted. The underlying principle of this study is that a thorough understanding of the outer literary form is an essential guide to an appreciation of the inner matter and spirit.

Sophomore course. One period throughout the year.

3. *Life of Christ.* A Survey is given of the political, religious, and social conditions in the time of Christ as the background necessary to an understanding of His life and teachings. The events of His life are then studied from the four-fold gospel itself, special attention being given to chronology and harmony. An outline of His teachings, ethical as well as religious, is adduced. The aim is not apologetic but purely historical.

Junior course. One period throughout the year.

4. *New Testament Study.* This course embraces a study of New Testament Greek. Some book of the New Testament chosen by the class is read in the original. The study of Biblical Greek has its approach from the classic side but special attention is given to the distinctive peculiarities of Hellenistic Greek as a later and less artificial dialect of the elaborate and polished language of orators and philosophers. The student is familiarized with the vocabulary of the New Testament. Etymology and syntax are systematically studied.

This course is open to all who have had two years of Greek.

One period throughout the year.

Christian Evidences

Professor WENTZ.

A defensive statement of the Christian religion as the divinely revealed religion of redemption. From a consideration of the historical foundations the essence of Christianity is deduced in

brief and thus the method of defense is determined. Evidences external and internal are considered. The miraculous element in the New Testament is vindicated. Special reference is made to those elements in our present intellectual environment which tend to make faith difficult. In conclusion, Christianity is compared with the ethnic religions, and the absolute character and the permanent significance of the Christian verities are maintained.

Junior course. Two periods, first semester.

Commerce and Finance

Professor —————

1. History of Commerce. A history of the general development of commerce and finance in the United States, including the history of banking, the growth of corporate industry and manufacturing.

Two periods, first semester.

2. Commercial Law. The legal principles underlying and governing business transactions of every variety; contracts, partnerships, corporations, etc., from the viewpoint of organization, rights and liabilities.

Two periods, second semester.

3. Statistics. The elements of statistical method such as find their practical application in the problems of price, wages, labor, and social data in general, as these affect the economic world.

4. Finance. Theory of accounts, banking methods, reserve funds, dividends, taxation and distribution of wealth.

5. Investments. This course aims to enable the student to analyze securities so as to judge intelligently of their value; such as stocks, bonds, insurance, etc.

Courses 3, 4 and 5 cover two periods, extending through the year. Course 4 deals with business methods, Course 5 with business instruments, and Course 3 with the social and economic

data which cause fluctuations in stocks, bonds, etc., the general aim being to give a comprehensive view of the factors entering into practical finance.

History

Professor WENTZ.

1. Political History of Modern Europe. The essential landmarks of ancient and mediaeval history are recalled and fixed definitely in mind and a brief introductory survey is given of the civilization of Europe at the end of the Middle Ages. Then beginning with the Protestant Reformation the course of the historical development of modern Europe is traced by a thorough study of the Modern Period in connection with Schwill's Political History of Modern Europe, the aim being to develop the general background of historical knowledge and to introduce the student to methods of college historical study.

Freshman course. Two periods throughout the year.

2. Advanced Course in English History. After a rapid introductory survey of the Anglo-Saxon period, the course begins with the Norman conquest and deals with the details of historical development down to the present time. Stress is laid upon such phases of English history as will specially aid the student to understand the modern political development in continental Europe and in the United States. The materials of the study include text-books, lectures, secondary authorities, and sources, with frequent discussions of assigned readings.

Three periods, first third of year. Given in alternate years with Course 3.

Prerequisite, 1.

3. Advanced Course in United States History. This course comprises a study in the epochs of our national history. An effort is made to discern the social and economic forces that have been operative in the development of the republic and thus lead to an understanding of the national problems of the present. Much attention is given also to American biography, and bio-

graphical essays, sketches of epochal events, and frequent reports on assigned topics are required.

Three periods, first third of year. Given in alternate years with Course 2. Omitted 1911-12.

Prerequisite, 1.

4. The History of the German Empire and its Present Organization. This study begins with the changes in the political map of Europe after the Congress of Vienna and traces the gradual nationalization and unification of Germany. It concludes with a detailed study of the present organization of the Empire and an examination of the political, religious, and economic conditions of the present day. The characteristic phenomena are constantly culled from the sources.

Three periods, second third of year.

Prerequisite, 1.

5. Lectures on the History of Ancient and Mediaeval Civilization. This course presupposing a knowledge of the facts and events of history makes a study of the growth of historical ideas. The forces that have moved men and nations are sought out and the causes which have operated to direct the tendencies of peoples and to develop institutions are set forth. The unity and continuity of history are developed.

Three periods, last third of year. Given in alternate years with Course 6.

Prerequisite, 1.

6. Lectures on Modern and Contemporary Civilization. A continuation of Course 5, the aim here being to analyze the constitutive and abiding elements of our own civilization, to lead the student to a thorough understanding of the general trend of modern civilization and thus enable him to determine his relation to the world society of to-day.

Three periods, last third of year. Given in alternate years with Course 5. Omitted 1911-12.

Prerequisite, 1.

Philosophy

Professor SANDERS.

1. **Psychology.** A course in general psychology which aims to acquaint the student with the phenomena of mind, the methods of psychological investigation and the practical bearing of the various mental functions on the problems of ethics, pedagogy, etc.

Sophomore course. Two periods, first semester.

2. **Introduction to Philosophy.** The course in general psychology suggests the problems of philosophy. The course in Introduction aims to acquaint the student with the content of philosophy, the origin and development of the various problems, the aim and method of philosophy, the results which have been attained, and its relation to the other departments of human thought.

Sophomore course. Two periods, second semester.

3. **Logic.** An introductory course in the laws of thought. The evolution of the concept, its development into judgment and inference, the systematic function of classification, the explanatory function of generalization, and the methodology of proof and investigation are studied with a view to securing a foundation for the theory of knowledge and effective scientific method.

Junior course. Two periods, first semester.

4. **Sociology.** A study of the nature of society and its problems. Starting with the psychological factors of sociation, the development of social institutions, the economic and cultural factors of social progress and the elimination of hindrances—evils—are taken up in turn with a view to an understanding of the methods of social improvement.

Juniors and Seniors. Two periods, first semester.

5. **Ethics.** A study of human conduct. The concept of personality and the idea of self-realization, as forming the background of moral judgment, are wrought into a system which ex-

plains the origin of the moral motives as well as their implication of God and immortality.

Junior course. Two periods, second semester.

6. History of Philosophy.

A Ancient and Mediaeval Period. This course traces the rise and progress of reflective thought as it appears among the Greeks and culminates in Scholasticism. Special stress is placed upon the Greek thinkers, with a view to acquiring an understanding of the spirit of philosophy.

Senior course. Three periods, first semester.

B Modern Period. This course covers the period from the renaissance to the present time. Special stress is placed upon the great systems. The student is required to read selections from the great thinkers and report on them, the constant aim being to cultivate the philosophising attitude, thus furnishing a basis for independent thought as well as an inspiration to do original thinking.

Senior course. Three periods, second semester.

7. Philosophy of Religion. A study of religion as a distinct factor in human development. The aim of the course is to show the nature of religion and to interpret the various forms in which it manifests itself.

Senior course. Two periods, first semester.

8. Theism. This is essentially a course in metaphysics. Beginning with the method of system building, the student is introduced to the meaning of a world-view, the factors which a comprehensive and consistent view must recognize, and the reasons for regarding Theism as the theory which best meets existing requirements.

Senior course. Two periods, second semester.

Prerequisite, 1, 2 and 3.

Education

Professor SANDERS.

1. **History of Education.** A study of the most important movements in the history of education, the factors and personages instrumental in bringing about the various steps in the long line of progress.

Prerequisite, Philosophy 1 and 2.

2. **Pedagogy.** A study of the principles of the educative process, the growth of the mind and the laws governing its development.

Prerequisite, Philosophy 1, 2 and 3.

3. **School Organization and Method of Teaching.** A study of the practical problems of organization and the application of principles.

Prerequisite, Philosophy, 1, 2 and 3.

Courses 2 and 3 will be given in alternate years.

The State School Code requires of all teachers, courses in Psychology, Logic, History of Education, Pedagogy and Ethics.

Political Science

Professor HIMES.

1. **Science of Government.**

A **American Politics.** The subject is pursued on the basis of Johnston's *American Politics* with comments and suggestions for collateral reading. An intelligent acquaintance with present political conditions is aimed at.

B **American Government.** The principles and structure of government are studied. National and State constitutions are consulted. The annual Presidential Message is discussed.

Junior course. Two periods throughout the year.

2. **Economics and Law.**

A **Economics.** The theories of the science are brought, wherever possible, to the test of the student's personal observa-

tion and the true nature of the science is thus impressed upon mind. Problems for investigation are assigned to the class with instructions to inquire into actual industrial and social conditions and operations.

B International Law. Lawrence's International Law is used, with occasional lectures on special topics.

Senior course. Three periods throughout the year.

Biology and Hygiene

Professor STAHLEY.

Courses 1 to 6 are given during the Junior and Senior years, and are required in Group V, Biology, Chemistry and Physics and are elective for the other groups and for partial course students in other years. The Junior work is a general culture course, and is calculated to give the student a general understanding of current biological questions. The Senior work is more medical in its cast, and in conjunction with the Junior work, provides an admirable preliminary preparation for the study of medicine. Students in Municipal Engineering are required to take Course 7.

The work is carried on by lectures, demonstrations, dissections, written descriptions and drawings, quizzes and frequent stated examinations. There are two well-lighted laboratories, provided with all needed instruments and apparatus.

1. General Biology. This branch acquaints the student with microscopic technique and general laboratory methods, whilst he studies selected types of plants and animals, taken from the lower forms of life. The purpose is to ascertain fundamental facts of structure and life processes, with the significant relationships in the two great kingdoms of organic nature.

First year. Three periods for thirteen weeks.

2. Vertebrate Zoology. Fundamental vertebrate features of structure and function are carefully considered, whilst dissecting type forms, beginning with the lowest vertebrates known, and proceeding through the various classes, culminating with the

Mammals; the latter class claiming special attention. Questions relating to comparative morphology and physiology of vertebrate animals are freely discussed.

First year. Three periods for fifteen weeks.

3. Invertebrate Zoology. Representative types in this great group of animals are dissected. The basal plans in organization, with the varying modifications in form and function, are made subjects of practical study.

First year. Three periods for eight weeks.

4. Human Anatomy and Physiology. Special attention is given to osteology, joints, ligaments and muscles. Tramond's preparations, consisting of real bony joints, with accurately placed artificial ligaments, and Azou's dissectible manikin, provide ample facilities for this part of the work. In this, as in all the branches of the course, physiological processes are constantly discussed.

Second year. Three periods for eighteen weeks.

5. Sanitation and Bacteriology. In this course bacteria are considered both as useful and as disease-producing micro-organisms. The principles of municipal sanitation are discussed in detail. A practical study of the bacteriology of water by the use of pure cultures, is pursued in a laboratory amply equipped to carry on such work. The course is intended for students in Municipal Engineering, as well as for prospective medical students. It is given during the second semester of the Senior year and consists of thirty-six periods, divided between lectures and laboratory work.

6. Histology and Embryology. Mammalian tissues are studied and practical experience in the making of slides is acquired. Entire mounts are made of the chick embryo, as well as mounts of serial sections of the incubating egg to the fifth day of incubation.

Second year. Three periods for twelve weeks.

7. Personal and Public Hygiene. During the first semester

the question of the waste and conservation of individual vitality in its application to an efficient citizenship, are discussed. During the second semester consideration is given to those essential principles of public hygiene which are necessary in protecting the health of communities.

Lectures. One period weekly throughout the year.

8. Physical Culture. This end is sought under medical guidance in the Gymnasium during the winter months. A physical examination of each student is made when he enters college and such kinds of gymnastic exercises are prescribed as seem desirable. The purpose is to encourage the promotion of health and physical vigor as necessary for successful mental application. Since much harm is often done in injudicious physical exercise, special effort is made to advise those who are suffering from defective bodily conditions how they may be helped by hygienic methods and the selection of forms of exercise particularly suited to their case.

Chemistry

Professor BREIDENBAUGH, Mr. STOVER and Mr. DICKSON.

The courses in chemistry are not designed to prepare specialists in any department of the subject, but to give a general training in the science. The successful completion of these courses will prepare the student to enter on post-graduate or professional studies in any leading university, or qualify him for a more successful pursuit of any technical business, or fit him to teach chemistry in secondary schools.

The instructors are in daily attendance during the college term from 8 to 12 and from 1 to 4, except on Saturday afternoons.

1. General Chemistry. No previous acquaintance with the subject is required. Those offering chemistry for admission will be allowed to substitute, as far as is best for the individual, from Course 2. The general principles and the fundamental laws of the science are included in the course which consists of lectures,

readings from approved text-books such as Remsen's College Chemistry, Newell's Inorganic Chemistry for Colleges, and laboratory work of which careful record in note-books is required. There are daily quizzes and frequent examinations. The last several weeks of the course are devoted to a practical review and examination in the determination of a certain number of substances, based on the results of previous study.

Three lectures and six laboratory hours weekly for one year.

2. Qualitative Analysis. The student, following an outline prepared for the purpose, becomes acquainted with the general reactions of the elements of the several groups and from these data constructs the scheme of analysis which is applied in a number of determinations. There is constant supervision and personal conference over the work. Reference book: Fresenius' Qualitative Analysis.

Nine laboratory hours including class work weekly for one year.

Prerequisite, 1.

3. Quantitative Analysis. While such lectures as are desirable are given, this is essentially a personal laboratory course. An assigned minimum of work is required. Text-book: Fresenius' Quantitative Analysis.

Nine hours of laboratory work weekly for one year.

Prerequisite, 1 and 2.

4. Organic Chemistry. Lectures and preparations based on Remsen's Organic Chemistry occupy about one half the course, the remainder of the time is given to ultimate and proximate analysis of organic substances and of animal and plant products.

Three lectures and six laboratory hours weekly for one year, four units credit.

Prerequisite, 1 and 2.

5. Water and Sewage. Lectures, reading and laboratory work on the character of water supplies and sewage products and their purification.

Two periods for one semester as suits the class.

Prerequisite, 1, 2 and 3.

6. Cements. Reading and laboratory work on the nature of cements.

Two periods for one semester as suits.

Prerequisite, 1, 2 and 3.

7. Special Quantitative Methods. Students who are qualified, are offered courses in advanced and applied analysis—such as mineral and ore analysis, the examination of food stuffs, etc.

Such number of hours as may be arranged for during Senior year, or during Junior year by such students as have completed other work in the department.

Geology and Mineralogy

Professor BREIDENBAUGH.

1. Dynamical Geology. This course of lectures gives the student an acquaintance with the facts concerning inorganic geology with a discussion of the dynamical agencies which have been operative in bringing the earth to the condition in which we now find it.

Two periods, first semester.

2. Historical Geology. A comprehensive discussion of the principles of evolution with illustrations from historic geology closes the course.

Two periods, second semester.

The student is assigned readings from the text-books of Dana, Le Conte and Chamberlin and Salisbury and other authors.

Field work and the preparation of papers from personal observations give practical application to the work. Frequent examinations are held.

3. Mineralogy. Following a short course of practical work in Crystallography, there is a series of determinations of not less than one hundred minerals by their physical and blowpipe characteristics.

Two periods throughout the year.

Prerequisite, Chemistry 1.

Mathematics and Astronomy

Professor NIXON and Mr. TROXELL.

The courses in mathematics are arranged to give thorough mental discipline; to meet the needs of teachers; to fill the wants of students desiring later to do graduate work in the best universities; to prepare for engineering or other technical courses. The instruction includes full explanation of all difficult points, free use of blackboard by both instructor and pupil, daily drill and note-book work, checking of results, application of mathematics to practical problems of every day life.

1. Solid Geometry. The usual text demonstrations including the relations of planes and lines in space, the properties and mensuration of prisms, pyramids, cylinders and cones, the sphere and spherical triangle; geometric models. Well's Solid Geometry.

Freshman course. Three periods one third of year.

2. Plane and Spherical Trigonometry. Fundamental definitions, properties and analytical theory of trigonometric functions, with the usual formulae; theory and principles of logarithms; applications to the solution of various practical problems; use of the transit and level. Granville's Plane and Spherical Trigonometry.

Freshman course. Three periods two thirds of year.

3. Advanced Algebra. Undetermined coefficients with applications to series and partial fractions; graphical method of solving equations; determinants with applications to simple equations; the elements of the theory of equations: including the solution of numerical equations by Horner's method. Well's Advanced Algebra.

Sophomore course. Three periods one third of year.

4. Plane Analytic Geometry or Elementary Analysis. The equation and the plotting of the corresponding locus is discussed in general, after which the following topics are studied; line, circle, ellipse, hyperbola, parabola and other curves, their tan-

gents, normals, lengths and areas. Nicholas' Analytic Geometry; Granville's Elementary Analysis.

Sophomore course. Three periods two thirds of year.

5. Differential and Integral Calculus. The latest and best methods of teaching the Calculus are used. This course prepares students for work in applied science, for more advanced courses in pure mathematics, and for engineering or other technical courses. Simple practical problems are given throughout that illustrate the theory and at the same time are of interest to the student. These problems do not presuppose an extended knowledge in any branch of science but are based on knowledge that all students in a first course in the calculus are supposed to have in common. Granville's Differential and Integral Calculus.

Junior course. Three periods throughout the year.

6. Differential Equations. This course is based on the Calculus of Junior year, and consists of recitations on methods of solution and geometrical interpretation of ordinary and partial differential equations. Cohen's Differential Equations.

7. Solid Analytic Geometry. This course is based upon the Analytic Geometry of Sophomore year, and includes various topics of Analytic Geometry of three dimensions. C. Smith's Solid Geometry.

8. Theoretical Mechanics. This course is based upon the Calculus of Junior year, and includes the mathematical treatment of various topics in mechanics. Smith and Longley's Theoretical Mechanics.

6, 7 and 8, Senior courses. Three periods throughout the year.

9. General Astronomy. This course is designed to meet the needs of students interested in Astronomy. Practical work is included but the emphasis is laid upon the theory. The subject matter is the following: determination of time, latitude and longitude from observation with the transit; computing the time of

sunrise, etc., and projecting a lunar eclipse; descriptive Astronomy covering the material contained in Young's General Astronomy.

Senior course. Two periods throughout the year.

Physics

Professor PARSONS and MR. BAKER.

A Elements of Physics. An elementary course in Physics designed for students who have had no previous work in the subject. The instruction is given by lectures illustrated by experiments, recitations, problems, and laboratory work. No credit will be given in this course to those offering Physics for entrance.

Three lectures and two laboratory hours per week throughout the year. Three and one-half units credit.

[This course will be given during the present year, but may not be offered during 1912-13.]

1. General Physics. Mechanics of Solids and Fluids, Sound, Heat, Electricity and Magnetism, and Light. The instruction is given by lectures illustrated by experiments, recitations and problems assigned for work outside the class. No previous knowledge of the subject is assumed, but a preparatory (or high school) course in Physics is advantageous as preparation.

Three hours per week throughout the year (lectures and recitations). Three units credit.

Prerequisite. Freshman Mathematics.

2. General Laboratory Physics. A laboratory course covering the field of general Physics and intended to accompany Course 1. It is desirable, though not required, that the student should have previously had an elementary laboratory course in Physics. Excepting in special cases, Courses 1 and 2 must be taken together.

Three or five hours per week throughout the year. One or two units credit.

3. Mechanics. This course is an extension of the Mechanics part of Course 1, the emphasis being placed on the physical ideas

as a preparation for the engineering applications. The principles of Statics and of the Dynamics of Translation and Rotation, and the subjects of Elasticity and Periodic Motion are treated. The instruction is given by lectures, text-book work, assigned problems, and laboratory work.

Two hours lecture and class work (3A) and three to six hours laboratory work (3B) per week first semester. One and one-half to two units credit.

Prerequisite, Physics 1 and 2 and Mathematics 4 (Analysis including the elementary calculus).

4. Thermodynamics. An extension of the "Heat" part of Course 1, in which the Thermodynamics of the Steam Engine and other heat engines, and calorimetry and the heat relations of transformations and chemical reactions, are emphasized. The laboratory work will be varied to meet the needs of the individual student.

Two hours lecture and class work (4A) and three to six hours laboratory work (4B) second semester. One and one-half to two units credit.

Prerequisite, same as Physics 3.

5. Medical Physics. A descriptive course, involving relatively little mathematics, consisting of selected topics in Physics of interest to students of Medicine, Chemistry, and general science. The subjects treated include density determinations, diffusion, osmosis, capillarity, calorimetry, heat production in vital processes, electric currents and high potential discharges, ultra violet light, X-rays, and radioactivity, and (continued in Course 6), refraction of light, astigmatism, color, polarized light, and photography.

Two hours lecture and two or three hours laboratory work per week first semester. One or one and one-half units credit.

Prerequisite, Physics 1 and 2.

6. Light. A general course in Light beginning with its historical development. The phenomena of reflection, refraction, interference, diffraction, polarization, etc., are treated from

the standpoint of the wave theory. The subjects of Photography and Optical instruments (including spectrosopes, interferometers and the diffraction grating) are considered in the lecture and laboratory.

Two hours lecture and three or more hours laboratory work per week second semester. One and one-half units credit.

Prerequisite, Physics 1 and 2, and Sophomore Mathematics.

7. Elements of Electrical Engineering. The theory and methods of electrical measurements and testing, the principles of direct current machinery, and the elements of direct and alternating currents are considered in the lectures and the laboratory work.

Three hours lecture and class work and three to six hours laboratory work per week first semester. Two or two and one-half units credit.

Prerequisite, Physics 1 and 2, and Sophomore Mathematics (including the elements of calculus).

8. Alternating Currents and Topics in Electrical Engineering. A continuation of Course 7 in which the theory of Alternating Currents and electric oscillations is treated. Single phase and polyphase currents, alternating generators, synchronous and induction motors and other appliances, long distance power transmission, electric railways, electric lighting, and other topics are briefly treated.

Three hours lecture and class work per week, and laboratory work (amount not specified), second semester.

Prerequisite, Physics 7.

9. Electric Railways and Power Transmission. A course in Electrical Engineering following Courses 7 and 8. Lectures and class work.

Two lectures per week first semester. One unit credit.

Prerequisite. 7 (and preferably 8).

10. Elements of Illuminating Engineering. A course in Electrical Engineering following Course 9, dealing with the subject of electric illuminants and methods of illumination.

Two lectures per week second semester. One unit credit.
Prerequisite, 6 and 7.

11-16. Courses in Advanced Physics. Two (or possibly, in some cases, three) lectures per week for one semester, in each course. With the exception of 12, all are mathematical and require Calculus and Differential Equations. Not more than one or two of the courses 9-16 will be offered in any one semester, and the ones given will vary from year to year.

11. Theoretical Mechanics and Mathematical Physics. An advanced course in the principles of Mechanics including the dynamics of vibrating systems. First semester.

12. Recent Advances in Physics. Radioactivity, Discharge of Electricity through Gases, the Electron Theory and other topics. Lectures, illustrated by experiment.

Two lectures per week second semester. One unit credit.

Prerequisite, Physics 1 and 2 and (elementary) Calculus.

13. Electricity and Magnetism. First semester, or throughout the year.

14. Physical Optics. The mathematical theory of Light, including the Electromagnetic Theory. (This course should follow 13).

Second semester, or throughout the year.

15. Kinetic Theory of Gases.

16. Theory of Sound.

17. Advanced Laboratory Physics. This course may be elected in connection with any of the advanced lecture courses, or separately. The experiments or problems assigned are variable. Credit proportional to the amount of work done. (It may be taken through more than one year).

18. Physical Manipulation. This may be given as a separate laboratory course or parts may be assigned in place of parts of other courses. It comprises the design and construction of

apparatus, soldering, electric wiring and glass blowing, grinding and polishing.

Credit proportional to work done.

Prerequisite. Physics 2.

19. Research on some assigned topic (for candidates for an advanced degree).

Civil Engineering

Professor KIRBY.

This department offers systematically arranged instruction leading to the degree of Bachelor of Science. Students may elect either Civil Engineering, (Group VIII), or Municipal Engineering, (Group IX). See pages 39 and 40.

Attention is called to the fact that the field of Civil Engineering is an increasingly broad one, that Municipal Engineering is but one of its many subdivisions, and that preparation for the successful practice of this or any of the branches of Civil Engineering involves the pursuit of a number of common fundamental studies.

Civil Engineering includes also Topographic, Railroad and Structural Engineering. Students who wish to prepare themselves for work along these lines should take Civil Engineering Course (Group VIII).

The Municipal Engineering (Sanitary Engineering) Course is offered for those who wish to specialize somewhat in subjects relating more particularly to the problems of sanitation and civic betterment with which the engineering department of a modern city is concerned.

The courses have been so planned as to give the student in addition to his vocational training the foundations of a broad education. It is believed that such preparation is to be preferred to a college course entirely devoted to technical subjects, especially in view of the tendency of men trained as engineers to engage in other related callings, as contracting, manufacturing or commerce.

The sequence of technical subjects is such that those that are

comparatively simple and basic lead up to those that are more complex and specialized. It is necessary therefore that students in this department take the course in its entirety. A few of the elementary subjects may be elected by students in other groups whose preparation therefore has been adequate. Special work will be arranged for graduates of this or other colleges.

It is aimed to make the instruction in each subject as practical as is consistent with a broad view of the principles involved. A number of trips are arranged during the course for the inspection of engineering structures in the vicinity, etc. Reports of such visits are prepared by each student from his individual notes. A seminar for the discussion of current engineering topics is designed to afford the student training in the preparation and presentation of written papers and to stimulate his interest in matters pertaining to his chosen profession. A number of the standard engineering periodicals are kept on file for student use and a departmental library is being built up in connection with the library of the college.

SOPHOMORE COURSES.

1. Mechanical Drawing. Elementary principles, orthographic, isometric and cabinet projections; simple sections, intersections and developments; lettering; an introduction to architectural, machine and engineering drafting.

Two periods, first semester. One and one-half units credit.

2. Descriptive Geometry. Problems relating to the point, line and plane in space are followed by those dealing with sections, intersections and developments, with applications to engineering and architecture. The instruction is designed to develop in the student the power of concise reasoning. Text-book, Tracy and North's Descriptive Geometry.

Two periods, second semester. One and one-half units credit.

JUNIOR COURSES.

3 and 4. Elementary Surveying. The field work is done during a period of three weeks immediately preceding the be-

ginning of the Junior year. It consists in drill in the use of the more common surveying instruments, supplemented by recitations held at frequent intervals and designed to co-ordinate the instruction. The remainder of the course consists of calculations and mapping, done during term time. The calculations include those necessary in the ordinary office work of a land surveyor, while the mapping comprises plotting the notes of the survey made during the summer, tracing and blueprinting the map, and additional drill in plain lettering. Text-book Tracy's Plane Surveying.

Three weeks (145 hours) in August and September. One unit credit.

Two periods, first semester. One and one-half units credit.

5. Mechanics. During the first semester this course is carried on in connection with Physics 3, which is essentially a laboratory course, and deals with the elementary conceptions in mechanics. The use of the slide rule is introduced at this point. The remainder of the year is taken up with the analysis of the stresses in framed structures and other forms of engineering construction, with emphasis on graphical solutions. Numerous problems are solved by each student throughout the year. Text-books, Jameson's Elementary Practical Mechanics, Malcolm's Graphic Statics.

Two periods, first semester. Three periods, second semester. Two and one-half units credit.

6. Railroads (A). A course in the mathematics of railroad curves,—simple, compound, and vertical, including switches and spirals; earthwork calculation and the construction of mass diagrams. Instruction is largely by recitation, involving the solution of many practical problems. Text-book, Raymond's Field Geometry.

Three periods, second semester. One and one-half units credit.

7. Cement Testing and Highways. A short laboratory course in which the standard tests of cement and mortar are made and compared, supplemented by lectures on the manufac-

ture and use of cement. Recitations on the design, construction and maintenance of roads and pavements, with especial consideration of the exigencies of present-day traffic. Text-book (Highways), Spaulding's Text-Book on Roads and Pavements.

One period, second semester. One-half unit credit.

SENIOR COURSES.

8 and 9. Advanced Surveying. Topographic surveying, using a variety of methods and instruments, including the plane table. Adjustment of instruments. The office work includes instruction in topographical drafting and the use of topographic maps, also the treatment of various subjects in higher surveying.

Three weeks (145 hours) in August and September. One unit credit.

Two periods, first semester. One unit credit.

10. Hydraulics. A study of the mechanics of water at rest and in motion, with applications to a variety of problems relating to the pressure of water and to its flow in natural and artificial channels, pipes, etc.

Text-book, Russell's Hydraulics.

Three periods, first semester. One and one-half units credit.

11. Structural Design. A course in the strength of materials as applied to the design of structures of steel and of wood. Beginning with simple joists under specified loadings the student finally makes all the calculations necessary in the complete design of a number of bridges and roof trusses of various types. The stability of existing structures is also investigated. This is essentially a course in the mathematics of design and does not include drafting. (See Course 12).

Three periods. Three units credit.

12. Structural Drafting. The making of detail drawings for the component parts of a steel structure. Conformity with

the best practice is required in the notation, and the drawings are carefully checked.

Two periods, second semester. One unit credit.

13. **Masonry.** The design and construction of stone and concrete structures, heavy foundations, arches, walls and dams. Instruction is in part by recitation and includes drafting-room work in the design of several typical structures. Text-book, Baker's *Masonry Construction*.

Two periods, second semester. One unit credit.

14. **Sewerage.** Various types of design and construction are discussed in recitation. Plans for a small sewer system are made by each student. Modern methods for the purification and disposal of sewage and garbage. Visits are made to plants under construction and in use. Text-book, Ogden's *Sewer Construction*; Kinnicutt, Winslow and Pratt's *Sewage Disposal*.

Two periods, second semester. One unit credit.

15. **Water Supply Engineering.** The quantity and quality of water from various sources. Works for the collection and storage of water, for its purification and for its distribution. Text-book, Turneure and Russell's *Public Water Supplies*.

Two periods, second semester. One unit credit.

16. **Railroads (B).** The necessary preliminary surveys are made and a short piece of railroad line is located. (This work is done during the summer course in *Advanced Surveying, C. T. 8.*) Course 16 includes making the plans, calculations, etc., necessary to prepare a full report on the proposed construction including its cost. The design of yards and terminals. Economics of railroad construction.

Two periods, second semester. One unit credit.

17. **Contracts and Specifications.** The elements of contract law as applied to the mutual relations of engineer, contractor and owner. Critical review of typical specifications, and practice in specification writing. Text-book, Tucker's *Contracts in Engineering*.

One period, second semester. One-half unit credit.

GENERAL INFORMATION

Government

The College aims to develop the individual manhood of the student. The prevailing influences are such as lead young men to an active Christian life and to realize their personal responsibilities in the community. The immediate supervision of the students is in the hands of the President and Dean with the class officers.

Class Officers

A professor is appointed as class officer for each class. The members of the class present any request to the Faculty through their class officer and confer with him in personal matters or concerning college affairs.

Student Group Advisers

The head of each department acts as adviser to those students having a major in his department. He has oversight in the selection of electives and in the general character of the work of the student.

Student Council

Without lessening their authority and responsibility, the Faculty have delegated certain duties in government to the student body as a trial of self-government. The students act through a student council of four Seniors, three Juniors, two Sophomores and one Freshman, elected by their respective classes. The council acts in certain matters of discipline, and in matters concerning the general welfare of the student body is a medium of communication between the students and the Faculty.

Terms and Vacations

The college year of about thirty-six weeks is divided into two equal parts. The first semester begins at 8 A. M. on the second Wednesday in September and continues, with recesses at Thanksgiving and Christmas, to the first Friday of February; the second

semester begins on the same Friday and continues, with an Easter recess, to Commencement Day, the second Wednesday of June. The closing days of each semester are devoted to examinations.

Attendance

Each student, not residing with his parents, is required to attend on week days a prayer service at 7.40 A. M., in Brua Chapel. On the Lord's Day attendance is required at the morning service in the College Church. Those affiliated with other denominations are, on request of their parents, granted permission to attend elsewhere. Ten per cent. absences are allowed from prayers and church under the rules governing absence from class work.

Each student is allowed individually ten (10) per cent. absences from class-room work in each subject. This allowance, is expected to cover all ordinary absences. Fractions are not counted, and absences can not exceed four in any subject during a single semester. These absences are not allowed for the two days preceding nor for the two days following any recess. Absences are not allowed for announced examinations. Such absences can be excused only by action of the Faculty and the substitute examination will be held at such time as the instructor shall appoint. When absent from topical examinations or quizzes the student shall have an examination or quiz at such time as the instructor shall appoint. Unexcused absences count as zero on grade, and if these absences exceed the ten per cent. allowance the student shall take such special examination as the instructor shall direct. A further allowance of absences may be granted to members of athletic teams, musical organizations, participants in literary contests, and to representatives of literary societies for the purpose of attending conventions.

Electives

A student having electives must deposit with the Registrar, within the first two days of the year, a written list of his electives, bearing the endorsement of the student's Group Adviser

and of the instructors concerned. After the first week of the year changes in electives can be made only when approved by the Faculty, under such conditions as may be determined in each case.

Examinations

Examinations are held in all subjects at the close of each semester or when, during the term, a subject is completed. Instructors can hold topical or quiz examinations at the time of any of the regular appointments with the class. Absences from these examinations are governed by the rules given above.

Conditions and Deficiencies

Freshman entrance conditions must be satisfied by the beginning of the Sophomore year.

A student failing in the class work of any semester, in any course, must satisfy the work in such manner and at such time as may be required by the instructor, provided this be done before the close of the next semester.

A student failing in an examination at the end of a semester or on the finishing of any subject, is required to take a second examination at a date appointed by the instructor within the first two weeks of the next semester.

A student who at the beginning of any college year continues deficient in more than one-third of a year's work will be enrolled with the class in which the deficiency occurs.

A student deficient at the beginning of a year in courses aggregating six units will be required to drop a corresponding number of units in the regular work of the year.

Records

A record of scholarship and deportment, under the care of the Registrar, is kept for each student. The records for scholarship are A (excellent), B (good), C (fair), D (poor, barely pass), E (failed, but entitled to another examination), F (failed utterly and must repeat with the next class) and Inc. (incomplete).

The student begins each semester with a deportment grade of 100. Deductions are made from this at the end of each semester

Unexcused absences count: from church 5, from prayers 2, from recitation 2, from gymnasium 2.

Reports

A copy of the above record is sent to the parents or other proper parties at the end of each semester.

Requirements for Graduation

Each student completing the prescribed subjects of any group of studies and such number of electives as will aggregate at least sixty-four units, with the prescribed work in composition and speaking and in physical culture, will receive the degree pertaining to that group, either Bachelor of Arts or Bachelor of Science. Provided, however, that no student in any year shall maintain less than fifteen units per week.

No student will be graduated who is not present at Commencement unless he be excused by the Faculty.

Certificates

Partial and special course students or those withdrawing before the completion of a full course of study are entitled to a certificate giving a copy of the college record.

Master's Degree

Beginning with 1911-12 the degrees of Master of Arts and Master of Science are conferred on those having the corresponding Bachelor's degree according to the following regulations:

The Master's degree may be conferred upon resident graduates of at least one year's standing who have obtained the baccalaureate degree of this college or of any college of equal grade. Such students must present to the Faculty Committee on Advanced Degrees, for approval, a plan of advanced studies involving the equivalent of twelve units per week. It is recommended that at least one-half of the course be devoted to some one subject.

The Master's degree is also offered to non-resident graduates of this college of three years' standing or more. These must,

however, at the beginning of their candidacy arrange with the Faculty Committee on Advanced Degrees a systematic course of study, and must report annually to the head of the department in which the subjects have been chosen.

In order to obtain the degree the candidate must pass examinations satisfactory to his instructors and to the committee. Previous to the final examinations the instructors in charge shall file with the committee a statement of the work done by the candidate. If the report is satisfactory the candidate will be permitted to present himself for final examination. He shall also be required to prepare a paper upon an approved subject bearing on his principal study. Such paper must be completed and submitted to the committee at least one month prior to the commencement on which the degree is to be conferred; if accepted, it becomes the property of the college.

Graduates of this college who have devoted at least one year to graduate work in residence at other colleges or universities and have fulfilled the above requirements may be admitted by the Faculty to the Master's degree. It may also be conferred upon graduates who have completed a course of advanced study in professional schools. Provided that the work done be in kind, grade, and amount equivalent to that required of other candidates and it has not been offered in fulfillment of the requirements for a professional degree.

Honors

The following honors will be awarded at the close of each year:

A Final Honors will be awarded to members of the graduating class meeting the following conditions:

General Final Highest Honors will be awarded those students who have maintained during the four years the grade A in all of their studies.

General Final Honors will be awarded to those students who have maintained the grade A in at least half of the units of their four years and have not fallen below the grade B in their other studies.

Students entering at the beginning of Sophomore year will be awarded the same honors if they meet the above requirements for three years.

B. Department Final Honors. The head of any department recommending a student taking a major in that department as having shown special excellence in his work, the student, not having grade below B in more than three courses in other departments, shall be awarded Final Honors in that department.

C Class Honors for Freshman, Sophomore, Junior and Senior Years. Highest Honors for the designated year will be awarded those members of the class who have maintained the grade A in all their studies for the year.

Class Honors for the designated year will be awarded those members of the class who have maintained the grade A in at least half of the units of the year and have grade below B in none of their studies for the year.

These awards shall be announced at Commencement and published in the next BULLETIN.

Prizes

Muhlenberg Freshman Prize. The interest of a fund of five hundred dollars, contributed by F. A. Muhlenberg, D.D., LL.D., a former Professor in this college, is given at the close of the year to that member of the Freshman class who is found to have attained the highest degree of scholarship in the Greek and Latin group of studies.

Baum Mathematical Prize. Charles Baum, M.D., Ph.D., Class of 1874, of Philadelphia, has contributed five hundred dollars, the income from which is to be given annually to that member of the Sophomore class who shows the greatest proficiency in Mathematics.

Hassler Latin Prize. Mr. Charles W. Hassler furnished a fund, the interest of which is annually expended for the purchase of a Gold Medal, to be presented to the student of the

Junior class, who, at the end of the year, shall be rated as the best Latin scholar.

Reddig Oratorical Prize. Mr. Clarence Jacob Reddig, class of 1877, of Shippensburg, contributes annually the sum of twenty-five dollars as an Oratorical Prize, to be contended for in public by the Junior class, on Tuesday of Commencement Week.

Pittsburg Prize in Chemistry. The Pittsburg-Gettysburg Club has established a prize of \$25, to be given to the student who does the best work in Chemistry during the Junior year in those groups in which Chemistry is a major.

Graeff Prize. This prize was founded by Mr. John E. Graeff, class of 1843. The sum of thirty dollars is awarded for the best English Essay from the Senior class, on a subject previously assigned. The decision is made by a committee appointed by the Professor of English Literature.

Prizes in Debate. The Literary Societies of the college provide three prizes of \$36, \$24 and \$15, respectively, for the encouragement of skill in debating. The first contest takes place about the middle of November between teams chosen by the Sophomore and Freshman classes, respectively, and the winning team is rewarded with \$15. The second contest between the winning team and a team from the Junior class, takes place about the middle of March, with \$24 to the winners. The third contest, between the second victors and a team from the Senior class takes place about the middle of May, with a reward of \$36 to the winners. Winners of the first prize are excluded from further competition.

Bloomhardt Mercury Prizes. Dr. Fred H. Bloomhardt, class of 1894, of Altoona, Pa., offers \$25 annually to be devoted in prizes to the encouragement of writing for "The Mercury," the College literary journal.

Snyder Prize. Rev. G. F. Snyder, class of 1891, gives annually twenty-five dollars in prizes to be contested for by members of the Senior class in a contest on the general subject of the

“Applications of Christianity to Social Problems.” The particular topic to be assigned or approved by the Professor of Philosophy. The orations shall be submitted to the judges and graded and the writers of the six receiving the highest grades shall deliver them at a public contest on or about the last Thursday in March when another committee of judges shall grade them in delivery. The prizes, fifteen and ten dollars respectively, shall be awarded on the basis of the average grades.”

Students in partial or special courses are not admitted to competition for any of the foregoing prizes.

Scholarships and Aid for Students

Several endowed scholarships worth \$30 each are awarded annually to worthy and needy students by the Finance Committee of the Board of Trustees. All applications for these scholarships must be in writing and state in full the reasons for the request. Such applications must be handed to the President before October 1st of each college year.

A number of other \$30.00 scholarships have been endowed and are controlled by congregations, synods and individuals. The Gettysburg School Board controls such a scholarship established by C. W. Thompson, Esq., of Lebanon, Pa. The authorizations from those controlling these scholarships must be handed to the President before October 1st of each college year.

The children of clergymen are entitled to a reduction of one-half of the tuition and general fees.

A limited number of students may earn part of their college fees by caring for halls and class rooms and by doing other work about the campus and buildings. Twenty five cents an hour is allowed for these services. All applicants for such employment must hand a written request for same to the President before October 1st of each college year.

Upper classmen are employed as proctors and caretakers of the various college buildings. These appointments are made by the faculty and applications for such positions must be in writ-

ing and in the hands of the President before May 1st of the preceding college year.

Treasurer's Bills

The bills of the College Treasurer are made out for each semester and include half of each item for the college year.

A discount of five (5) per cent. is allowed on all dues paid within six weeks of the opening of each semester.

No student shall be graduated until all financial obligations to the college and for class publications and other student interests are settled, except when a student has registered a timely protest with the Faculty and the claim for relief has been allowed.

Expenses

The expenses of a college student depend on the training and habits of the individual. The following statement indicates the range for certain fixed charges:

College Items.	Low.	Moderate.	Liberal.
Tuition and General Fees	\$80.00	\$80.00	\$80.00
Library fee	1.50	1.50	1.50
Athletic fee	6.00	6.00	6.00
Room rent and heat (half room)	15.00	40.00	70.00
Electric Light (half room)	1.80	1.80	3.60
Board for 36 weeks	95.00	108.00	126.00
Laundry	15.00	18.00	20.00
	<hr/>	<hr/>	<hr/>
	\$214.30	\$255.30	\$307.10

Books, stationery and room furnishings are very variable items.

An incidental fee of \$2.50 per semester is charged to students not residing in the college dormitories.

Beginning with 1910 a registration fee of \$5.00 is paid by all students on entrance. Those not having paid this fee will in the second semester of Senior year pay a graduation fee of five dollars.

The athletic fee contributes to expenses incurred in physical training and gives free admission to all intercollegiate games at Gettysburg.

The fee for the course for the Master's degree is \$80.00, when all the instruction required has been given by members of our college faculty, of which \$25 is a registration fee and the balance is due one month before the conferring of the degree.

Laboratory Fees

The annual fees based on three laboratory periods per week are:

Biological laboratory	\$14.00
Chemical laboratory	18.00
Physical laboratory	12.00
Mineralogy for the course	3.00
Annual fees for Junior and Senior years in Engineering courses	12.00

In addition to the chemical laboratory fee a charge is made for apparatus broken or not returned in good condition. In the physical laboratory a charge is made for material used and damage to apparatus.

Rooms, Heating and Lighting

The following rules govern the assignment of rooms in the college dormitories:

All rooms shall be declared vacant on May 1st of each year. Students desiring to remain in the rooms they have been occupying shall have that right provided they make written application to the Registrar, on blanks provided for the purpose, during the first week of May. During the second week of May all rooms not reserved in this manner shall be assigned to the members of the several classes beginning with the Junior class. The order of the choice in the classes shall be determined by lot conducted by the Registrar and the President of the Student Council.

Students are not allowed to change rooms during term time except by special permission from the Registrar.

The full annual rental, including heating, is given below for

each room in the dormitories, occupants dividing the rental. Not more than two persons are allowed to occupy one room or suite—except in some of the larger suites. In Pennsylvania Hall the designations are E. for east division, M. for middle division, and W. for west division. S. indicates South College Hall.

\$18.00: 4, 6, W; 4, 6, 8, E.

\$20.00: 5, 7, W; 5, 7, 9, E.

\$24.00: 3, W; 3, E.

\$25.00: 1, W; 1, E.

\$32.00: 3, 4, 5, M.

\$34.00: 2, W; 36 S.

\$35.00: X, S.

\$38.00: 12, 14, 20, 22, 28, 30, W; 6, 16, M; 14, 16, 18, 24, 26, 28, 34, 36, 38, E.

\$40.00: 13, 15, 21, 23, 29, 31, W; 15, 17, 19, 25, 27, 29, 35, 37, 39, E.

\$44.00: 22, 23, 24, 25, 30, 31, 32, 33, S.

\$49.50: 26, 27, 28, 29, S.

\$50.00: 10, 18, 26, W; 7, 9, M; 12, 22, 32, E.

\$52.00: 8, 11, 16, 19, 24, 27, W; 10, 13, 20, 23, 30, 33, E.

\$54.00: 9, 17, 25, W; 11, 21, 31, E.

\$55.00: 20, 21, 34, 35, S.

\$70.00: 8, 10, 12, 14, 18, 20, M.

\$80.00: 17 and 19 M; 21 and 22 M; (suites of two rooms).

\$82.50: 1, 2, 3, 4, 5, 6, 7, 8, S.

\$95.00: 10 and 12 S; 11 and 13 S; 15 and 17 S; 16 and 18 S; (suites of two rooms).

\$140.00: 9, 19 S (suites of three rooms).

Rooms 3, 4, 5, 8, 10, 12, 14, 18, 20, M. include a large study and a good-sized bed room. Even numbers in Pennsylvania Hall, except 22 M, are on the north side of the building.

The cost of electric light is ten cents per week for each 40 watt Tungsten lamp.



MATERIAL EQUIPMENT

Libraries

The College Library contains over 18,750 volumes, besides numerous unbound pamphlets. It is a regular depository of the United States Government and the Government of the State of Pennsylvania. Several hundred volumes of public documents are annually received from these sources.

The Library is available, without charge, to all students under established regulations. During term time it is open for consultation and the drawing of books four hours each week day, except on Saturday, when it is open for two hours. The librarian and his assistant are always ready to give aid to students. It is intended to further increase the opportunities for the use of the library and to enhance its general usefulness by means of a systematic organization and the building up of a complete and attractive library of reference.

The income of a fund invested for the purpose provides for needed additions.

In view of the great expense involved in the purchase of even the most necessary works in science and literature, the generous aid of the alumni and friends of the college is especially invited to the increase of this fund and to give money for the establishment of new funds.

In the same hall with the College Library are the Libraries of the Literary Societies. They comprise a large number of well selected and standard volumes, which are annually increased through the income of separate funds. The Philomathean Library contains at present over 6,850 volumes; the Phrenakosmian Library over 6,050 volumes. These libraries are accessible to the members of the societies under their respective regulations, and are open for the issue of books on Wednesday at 4 P. M., and Saturday at 10 A. M., during term time.

Reading Room

The Reading Room is well supplied with daily and weekly papers and leading literary and scientific periodicals, thus enabling the student to become acquainted with current events and contemporary, scientific, literary and other cultural movements. An annual fee of \$1.50 is charged to each student toward its maintenance.

Laboratories

The Biological Laboratories on the second floor of Recitation Hall, consist of two large well-lighted communicating rooms. They are supplied with twenty-five fine microscopes and all the appliances necessary in carrying on the work of the course outlined in the department of biology.

The Chemical Laboratories in the Chemical Laboratory Building, as described on page 89, are amply equipped with all the conveniences and apparatus and supplies that are desirable in the requirements for general and analytical chemistry, including work in organic preparations, proximate analysis, examination of water and other special subjects.

The Physical Laboratory. The lecture room is provided with a large table with sink, water, gas, and electrical connections; apparatus supports, blackboard, charts, black curtains, and a hand-painted screen for stereopticon work. The laboratories, comprising four rooms for general work, besides photographic dark room, store room and storage battery room, and the lecture apparatus room are equipped with modern and carefully selected apparatus for both elementary and advanced work. Alternating and direct electric current is supplied at different points by means of a central switch board, a motor generator and storage battery. The apparatus includes a Geryk double cylinder oil immersion air pump, high grade balances, apparatus illustrating mechanical principles and elastic constants, moments of inertia and harmonic motion, a spectrometer, photometer, and stereopticon; and in electricity, D'Arsonval galvanometers, Wheatstone

bridges, potentiometer, voltameter, tangent galvanometer, standards of resistance, capacity, electromotive force and self-induction, ammeters and voltmeters for direct and alternating current (all of the best German or American make); a complete dynamo and motor set illustrating different styles of direct and alternating current machines (induction, synchronous, three phase, etc.); an induction coil giving an 8 inch spark, high frequency coils, electric wave apparatus, and telegraph, telephone, and wireless telegraph outfits, and Kathode ray and X-ray tubes.

The equipment in the department of Civil Engineering is modern and adequate and is being augmented as necessity demands.

Museum

The Museum contains varied collections of fauna and flora and minerals, all of which are freely used in instruction. The Mineralogical Cabinet contains over 6,000 specimens, including not only very full suites of the more common and more important minerals but also good specimens of many of the rarer minerals. The collection in Lithology numbering 3,000 specimens, and of iron in Metallurgy, have, by recent additions, become fairly representative in the most important departments of these sciences. The Botanical collection of 6,000 specimens, mainly presented by Miss Elizabeth C. Morris, of Germantown, Pa., is well arranged and contains a full representation of American Flora. A beginning has been made of a Chemical Museum—to contain specimens of raw and manufactured materials in chemical industries. Friends of our institution can greatly aid us by making additions to these collections.

Buildings

Pennsylvania Hall, erected in 1836-38, was remodeled and improved in 1889. It contains eighty-six rooms for students, many of them *en suite*, so that those who may wish to do so can have separate study and sleeping rooms. In this building are the reading rooms of the Literary Societies and the large room

used by the College Y. M. C. A. These rooms are heated by steam, lighted by electricity, and water pipes and lavatories connected with the college system of water works are on the first and second floors.

South College, erected in 1897, is a building of three stories containing rooms for about fifty students. It is finished entirely in hard wood, is heated with steam, lighted by electricity, has hot and cold water on each floor and lavatories in convenient places. The first floor has eight rooms, each with open fire place, tile hearth and spacious closets. These rooms may be used by one or two occupants, as preferred. On the second floor all rooms are *en suite*, each suite consisting of a study with one bed-room or two. These are also provided with hearths, closets, etc. The third floor is divided into sixteen single rooms.

Glatfelter Hall, erected in 1888-89, is used for general college purposes. On the first floor are the library room and office, the President's and Registrar's offices and recitation rooms. The second floor has recitation rooms. The large museum room is on the third floor. In the north wing is the hall of the Philomathean Society, in the south wing the hall of the Phrenakosmian Society. In the basement are the laboratories of the Department of Physics with the recitation rooms directly above. The Civil Engineering Department occupies two rooms in this building.

The Brua Memorial Chapel, erected in 1889-90, is the gift of the late Col. John P. Brua, U. S. A., as a memorial to his parents. This building is used for morning prayers, for Commencement exercises, lectures and other occasions requiring a large audience room.

The Chemical Laboratory is a frame building, erected in 1872 and in 1890 converted to its present use. It contains on one floor a large lecture room, an office, store-rooms, chemical-room, balance-room, and two laboratories—providing for one hundred and twelve persons working individually. The building is fitted with the most approved appliances; gas and water at

each desk; there are ample hoods, a water-distilling apparatus and large sand bath, and other necessary apparatus. The balance-room contains balances set on pillars especially built for purpose. In the basement and in the attic are store-rooms.

The Astronomical Observatory, erected in 1875, is furnished with an achromatic telescope, having an object glass of six and one-half inches, with a transit instrument, chronometer and other appliances.

The Gymnasium has on the first floor ample dressing rooms and bathing facilities, and a baseball cage. On the second, or main floor, a class of sixty members can be accommodated for gymnastic drill. The selection of specialized apparatus in light and heavy gymnastics is varied and complete. The Professor's office where all physical tests and measurements are taken, is also on this floor, and is furnished with a full set of anthropometric apparatus.

On the gallery there is a first-class Roberts' patent running track with seating accommodations for visitors.

The gymnasium is open at stated times every afternoon and evening and Saturday all day, aggregating twenty-four hours each week, apportioned between regular class practice and general practice.

The Boiler House supplies the steam required for heating all the college buildings and baths.

Nixon Athletic Field. Immediately north of the college buildings is the athletic field, which is carefully graded and securely inclosed and covers an area of over seven acres. It affords room and facilitates for all kinds of out-door sports. Recently the Blough running track has been built.

Besides these buildings there are on the campus the President's house, a double house for professors, and four halls erected by Greek Letter Societies.

STUDENTS' INTERESTS

Literary Societies

Two literary societies are connected with the college, the Philomathean and the Phrenakosmian. These exert a favorable influence in the intellectual and social culture of their members. The exercises consist of essays, orations, debates and music. The practical acquaintance with parliamentary law here formed makes these societies excellent schools for free citizenship. The halls occupy two wings on the third story of the Recitation Hall, and are conveniently and handsomely furnished. Their sessions are held every Friday evening. Every student should become an active member in one of these societies.

Debates and Oratorical Contests

During the year there are debates between teams representing the different classes, also between teams of the literary societies. The college is also represented in the Intercollegiate Oratorical Union, being associated with Franklin and Marshall, Ursinus, Muhlenburg and Swarthmore in an annual oratorical contest.

Y. M. C. A.

The Young Men's Christian Association of the college is an active agent in promoting religious interests among the students. Each Sunday morning and Thursday evening a public meeting is held addressed by invited guests or students. Various Bible classes are organized in college classes, fraternity and other special groups. The Y. M. C. A. Student Secretary has general direction and co-operates with the officers and committees of the association.

Lectures

A series of public lectures will be delivered each year by members of the Faculty and others prominent in some field of general interest.

The Y. M. C. A. conduct, at very reasonable cost, a series of interesting lectures and musical entertainments.

Occasional lectures or addresses by prominent men are delivered before the student body.

Musical Organizations

Active and well trained choral and instrumental musical organizations consisting of a band, an orchestra, a guitar and mandolin club, and a glee club, add to the pleasure of their members and of the audience at their public exhibitions. These clubs usually take a week's trip during the spring of each year.

Athletics

The various college athletic sports, football, baseball, basketball, and field sports are well organized. They are recognized as an important part of college life and receive encouragement, but under such regulations as it is believed will prevent them from becoming a possible source of demoralization to the student or interfering with the primary work of the institution. The plan under which these sports are conducted gives the opportunity and encourages every student to regularly take part in some out-door exercise.

Students are permitted to participate in any or all branches of athletics unless parents or guardians have notified the Faculty to the contrary.

Press Club

The Press Club successfully places the various interests of the college before the public through the daily papers.

Publications

THE PENNSYLVANIA COLLEGE BULLETIN is published four times during the year. The February issue is the Announcement Number, the May issue is the Annual Catalogue, the October issue contains the Reports of the President and Treasurer, the December number is the Alumni Number.

"The College Mercury," published monthly during term time, under the control of the Literary Societies, is a literary journal

sustained by the contributions of students and alumni. "The Gettysburgian," under the private control of students, is published weekly and makes a specialty of college and alumni news. "The Y. M. C. A. Hand-Book," issued at the opening of each college year, gives valuable information and suggestions to incoming students. "The Spectrum," an annual publication of the Junior class, contains pictorial representations of the college with its various organizations and surroundings as well as useful statistics about students and alumni.

All the periodicals aim at enlarging the means of communication between the college and its graduates, former students and friends. These enterprises are cordially commended to the patronage of those interested in the welfare of the institution.

ADDRESSES OF ALUMNI


The College is anxious to keep in touch with its alumni and ex-students not graduates, and requests that any changes in address should be sent to the Registrar.

TEACHERS

The attention of school-boards and others desiring teachers is called to the fact that it is frequently in the power of the Faculty to recommend suitable candidates. Many graduates fill successfully important positions in public and private institutions. The college course is arranged to meet the requirements of the School Code of Pennsylvania, thus securing the State Certificate. See page 58

FORM OF BEQUEST

I give, bequeath and devise to "The Trustees of Pennsylvania College, of Gettysburg, in the County of Adams," in the State of Pennsylvania, and their successors and assigns forever, the sum of ————— (or shares in the bank of —————, or any other personal property or real estate, as the case may be), to be applied to the Endowment Fund of the Institution.

 A bequest to a benevolent corporation, to be legal, must be made at least 30 days before the death of the Testator, in

Pennsylvania, and 60 days in New York, and should be signed by two witnesses.

GENERAL ALUMNI ASSOCIATION

The Alumni Association of Pennsylvania College holds its regular annual meeting Wednesday afternoon of Commencement Week. In 1876 the Board of Trustees granted the Association the privilege of nominating six of their number to membership in the Board, and of maintaining this number as vacancies occur.

The officers of the association are:

President:

Charles S. Duncan, Esq., '82Gettysburg, Pa.

Vice Presidents:

Charles J. Fite, '98Pittsburgh, Pa.

Prof. Charles H. Huber, '92Gettysburg, Pa.

Hiram H. Keller, Esq., '01.....Doylestown, Pa.

Secretary:

Clyde B. Stover, '94Gettysburg, Pa.

Treasurer:

H. C. Picking, '79.....Gettysburg, Pa.

DISTRICT ALUMNI ASSOCIATIONS

The various district alumni associations are active and potential factors in promoting the interests of the college and bringing the college to the notice of prospective students.

THE COLLEGE FREE LECTURE COURSE 1911-1912

November 28, Rev. Emil Meister, D.D., Lancaster, Pa., Ben Hur, Illustrated.

December 12, Prof. Karl J. Grimm, Ph.D., Christ in Art, Illustrated.

January 9, Prof. Grimm and Mr. Harold S. Lewars, M.A., Harrisburg, Pa., An Hour in German Poetry and Song.

January 23, Rev. A. B. Van Ormer, Pd.D., Shippensburg, Pa., The Pedagogical Significance of Whittier's "In School Days."

February 6, Prof. P. M. Bikle, Ph.D., The Roman Boy from Birth to Marriage.

February 27, Prof. B. F. Schappelle, Ph.D., From Berlin to Geneva, Illustrated.

March 12, Prof. Abdel R. Wentz, M.A., The Origin of the Pennsylvania Germans.

March 28, Mr. Hamilton Holt, Editor of *Independent*, New York, The Federation of the World.

THE Y. M. C. A. LECTURE COURSE 1911-1912

October 21, Otterbein Male Quartette.

January 4, Dr. Roland Dwight Grant, Lecture—Snakes in Paradise.

January 13, 1912, Mr. and Mrs. Franklin Carney—Cartoonists.

February 24, 1912, Chicago Ladies' Orchestra.

March 16, 1912, Edwin Brush—Magician.

STEVENS HALL, GETTYSBURG ACADEMY

PREPARATORY DEPARTMENT

OF

PENNSYLVANIA COLLEGE

INSTRUCTORS

- WILLIAM ANTHONY GRANVILLE, PH.D., LL.D.** 3 College Campus
President
- REV. CHARLES HENRY HUBER, A.M.** 411 Carlisle St.
Principal and Professor of Latin and English
- GEORGE MICHAEL RICE, A.M.** 21 Stevens St.
Vice Principal and Instructor in German and History
- J. GROVER CLEVELAND KNIPPLE, A.B.** 16 Stevens Hall
Instructor in Greek and English
- JOHN ROGERS MUSSELMAN, A.B.** 23 Stevens Hall
Instructor in Mathematics and Science
- MISS MARY HAY HIMES, A.M.** 130 Carlisle St.
Preceptress

STEVENS HALL

Aim of the Department

Stevens Hall is located within two minutes' walk of Pennsylvania College. The object of its foundation, which the school has steadily kept in view, was to maintain for our public an Academy under the control of College Authorities. The advantages of such a combination are obvious. To students who desire to prepare for college it offers a course of preparatory instruction under the eyes of their future professors and in the line of college requirements. The school, being open at all times to visits from instructors in the College, and receiving from time to time their counsel, is able to give to those students who desire it just that preparatory study and drill which will lead to the most profitable and creditable work in the college classes. Time is concentrated upon the studies in which it is needed, and students who have satisfied the requirements in the Preparatory Department are admitted to the Freshman class of the College upon the Principal's recommendation without further examination. On the other hand, students who do not expect to enter College, and who desire only an English education, preparatory to business, teaching, etc., find in this school an academy of high grade under the supervision of college professors in a college atmosphere, and with free access to the college libraries. Near association with a college is a stimulus to study, and often awakens a desire for a higher education.

Government

The Preparatory Department, though under the control of the College authorities, has a separate building and campus of its own and is under the special direction of a Principal who is aided by a Vice Principal, two Instructors and a Preceptress.

The school seeks to develop intelligent Christian gentlemen. The discipline aims at making the pupil self-governing, and leading him to habits of self-respect and self-control by train-

ing the judgment, quickening the conscience, and cultivating a delicate sense of honor.

When it is evident that a pupil has no proper appreciation of his opportunities, and is harming the school rather than receiving benefit from it, his parents are asked to remove him.

During study hours students are expected to be in their rooms, which are subject to frequent visits by instructors.

Admission

Students are admitted at any time to the grade for which they have been qualified by previous study. But it is highly important that the student enter the school as early in the course as possible. With the present requirements for admission, a hurried preparation is generally unwise and tends to retard the student's future progress, especially in Latin and Greek. Accurate scholarship, at which the school aims, can hardly be secured without long drill, especially in the languages. Without intending at all to discourage those whose circumstances, rather than their desire, lead them to attempt short preparation, all who can are urged to lay the foundation carefully. An additional year at the beginning is always a gain because of the ease and thoroughness with which future work is done. The fact, however, is recognized that students differ widely in ability and industry, and every opportunity is afforded those who can do so to cover the required work in the shortest possible time.

No examinations are required for admission, the pupil being at once assigned to the class for which his previous studies seem to have fitted him. If, upon trial, it be found that a mistake has been made, the Principal reserves the right to transfer the student to the proper grade.

Students who have advanced sufficiently in Mathematics and the English branches to enter the Freshman class, but have not studied Latin, Greek or German will here find special arrangements made for their rapid advancement. Girls will be received as day scholars. A study hall has been reserved for their exclusive use and they are not obliged to mingle with the general class

except at regular recitation periods. When at school they are under the care of a Preceptress. Refined homes for them can be secured in town at moderate rates. They will be under the care of the Principal, who is fully informed of their conduct.

Religious Exercises

On Sunday morning the students of the Preparatory Department are required to attend worship with the college instructors and students in the College Church, or such other place of worship as their parents or guardians may designate. A Bible class is conducted by the Principal every Sunday morning and is a part of the regular course of study. Chapel service is held every morning except Saturday.

Courses of Study

The courses of study are designed to prepare students of either sex, who desire to enter College, for the Freshman class, and to give students who do not expect to enter College, so far as it can carry them, a wide intelligence, true culture, and habits of careful study and sound thinking. New and important subjects have been added, and increased attention is given to the lower classes. All students of the school have free access to the College Library, and students over fifteen years of age may join either of the College Literary Societies. There is also a Literary Society conducted by the students of the Preparatory Department.

Arrangements for instruction in music at moderate terms may be made in town without conflicting with regular school work.

A report of the work and conduct of each student is sent home at the end of each semester, and at any other time upon request or when the Principal thinks it desirable.

There are two courses, the Classical (with Greek), and the Scientific or Academic (with German and Physics).

The subjects taught are as follows:

CLASSICAL COURSE

Sub-Freshman Class

Periods per week:

5. Latin. Six books of the Aeneid; Prose Composition.
5. Greek. Three books of the Iliad; Prose Composition.
5. Mathematics. Plane Geometry (Wells).
2. English. College Entrance Requirements as arranged by the "National Conference on Uniform Entrance"; Exercises in English (Buehler).
2. History. Grecian History (Myers); Roman History (Myers).
1. Composition. (Wooley's Hand-Book).
1. Physical Culture.

Upper Middle Class

5. *Latin. Six of Cicero's Orations; Prose Composition; Caesar (Completed).
4. *Greek. Four books of Xenophon's Anabasis; Prose Composition.
5. Mathematics. Algebra Completed (Wells).
2. English. College Entrance Requirements.
2. History. English and French History (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

Lower Middle Class

5. Latin. Comstock's First Latin Book, Second Year Latin with Caesar.
4. Greek. White's First Greek Book with Readings.
4. Mathematics. Arithmetic Completed (Wentworth); Algebra (Wells).
4. English. Grammar (Buehler); College Entrance Requirements.
2. History. United States (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

* Special beginners' classes will be organized this year for students having advanced preparation in other subjects.

Junior Class

4. Latin. Comstock's First Latin Book.
4. Mathematics. Arithmetic (Wentworth).
4. English. Modern English Grammar (Buehler).
3. English. College Entrance Requirements.
4. History and Geography.
1. Composition.
1. Physical Culture.

Spelling is required with the English courses in the four classes.

LATIN SCIENTIFIC COURSE

Sub-Freshman Class

Periods per week.

5. Latin. Six books of the Aeneid; Prose Composition.
3. Physics.
3. German. Grammar; Prose Composition; Reading.
5. Mathematics. Plane Geometry (Wells).
2. English. College Entrance Requirements as arranged by the "National Conference on Uniform Entrance": Exercises in English (Buehler).
2. History. Grecian History (Myers); Roman History (Myers).
1. Composition. (Wooley's Hand-Book).
1. Physical Culture.

Upper Middle Class

5. *Latin. Six of Cicero's Orations; Prose Composition; Caesar Completed.
4. *German. Vos's Essentials and Reading.
5. Mathematics. Algebra Completed (Wells).
2. English. College Entrance Requirements.
2. History. English and French History (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

* Special beginners' classes will be organized this year for students having advanced preparation in other subjects.

Lower Middle Class

5. Latin. Comstock's First Latin Book; Second Year Latin with Caesar.
4. German. Vos's Essentials.
4. Mathematics. Arithmetic Completed (Wentworth); Algebra (Wells).
4. English. Grammar (Buehler); College Entrance Requirements.
2. History. United States (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

Junior Class

4. Latin. Comstock's First Latin Book.
4. Mathematics. Arithmetic (Wentworth).
4. English. Modern English Grammar (Buehler).
3. English. College Entrance Requirements.
4. History and Geography.
1. Composition.
1. Physical Culture.

Spelling is required with the English courses in the four classes.

Business

A course of instruction is given in Book-keeping when desired. This course is intended to fit young men for a business career.

Physical Exercise

The building is surrounded with large and pleasant grounds adapted to football, baseball, tennis and other out-door sports; and in addition to this the students enjoy all the privileges and instruction of the College Gymnasium.

Buildings and Rooms

The building, located on a slight eminence north of town, is heated throughout by steam, and supplied with pure artesian water. A comfortable toilet room has been placed on the first

floor. The rooms on the third floor are now arranged *en suite* with a broad archway separating the study and sleeping apartments. On the second floor the rooms are separate.

The rooms are furnished with heavy oak wardrobes, bookcases, washstands, tables and chairs. Iron enameled beds, complete with springs and mattresses, are also provided. Two students occupy two rooms, one for studying, the other for sleeping. The rooms are furnished with two single bedsteads, mattresses, chairs, table, bookcase, clothes closet, window curtains and washstand. The other articles needed for the rooms, and to be furnished by the occupants, are as follows: Washbowl and pitcher, mirror, lamp, oil can, slop pail, and carpet. The carpet for the third floor study room is 10½ by 10½, sleeping room 10½ by 11, for a second floor study room 10 by 12½. Each student must also be provided with towels, three sheets for single bed, two pillow slips, a spread, comforts and blankets, and feather pillow.

Expenses

	First Semester	Second Semester
Tuition and General Fees	\$32.00	\$32.00
Room-rent, use of furniture and steam heat...	18.00	18.00
Gymnasium fee	3.00	3.00
*Athletic fee	3.00	3.00
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Total	\$56.00	\$56.00

Beginners' classes in Latin, Greek and German will be organized during the first week in April. Students entering the school at this time are charged two-thirds of the fees for the second semester.

Students do not board in the building, but in clubs and private families at a cost of from \$2.50 to \$3.50 a week. Washing is about \$1.75 a month. A deposit of one dollar will be required at the beginning of the year to insure the return of keys and the

* By payment of this fee students are entitled to free admission to all inter-collegiate contests. Students who do not feel able to pay the fee can be excused by making application to the Athletic Council.

proper care of the room. This will be returned to the student at the end of the year if no damage has been sustained. Day students are charged for tuition, general fees and the athletic fee but the gymnasium fee is optional.

A discount of five (5) per cent. is allowed on all dues paid within six weeks of the opening of each semester. Money entrusted to the Principal for the use of students will be expended as desired.

For further information address,

REV. CHARLES H. HUBER, A.M., *Principal.*

STUDENTS IN COLLEGE 1911-12

GRADUATE STUDENTS

Stanley Thomas Baker Gettysburg, 115 Buford Ave.

SENIOR CLASS

Candidates for the Degree of Bachelor of Arts

John Edgar Ainsworth	LeGore, Md.	Observatory
Wilbur Moses Allison	York	22-24 W
Charles Walt Beaver	Academia	1S
Harry Hursh Beidleman	Harrisburg	12E
Samuel Isett Bloomhardt	Altoona	19 E
Charles Stahle Butt	Gettysburg	129 Carlisle St.
Harold Sheely Diehl	Clearspring, Md.	17 M
Paul Melanchthon Enders	York	10 W
Charles Doty Fausold	Latrobe	14 S
John Gabriel Fleck	Reigelsville	31-33 E
Robert Charles Fluhrer	York	14 M
Luther Melanchthon Fritsch	Amsterdam, N. Y.	12 W
Margaret Gilliland	Gettysburg	239 Carlisle St.
Elmer William Harner	Littlestown	25 Chambersburg St.
Ernest Roy Hauser	Hauser, Md.	9 E
Joseph Henry Hurst	Hanover	37 E
Niamond Foreman Keller	Mifflintown	28 E
Daniel Ketterman	York	139 Carlisle St.
Wayne Blessing Krebs	Hallam	16 W
Sara Nancy Lau ✓	East Berlin	143 Carlisle St.
Bernard Seiss Lawyer	Westminster, Md.	14-16 E
Charles Edgar Liebegott	Martinsburg	17 M
Miles Raymond Law Markley	Altoona	26 Chambersburg St.
Oscar Robert Mellin	Phillipsburg	24 S
Emory Durbin Ott	Gettysburg	304 Baltimore St.
Franklin Joseph Peck	Hollidaysburg	29 S
Carl Christian Rasmussen	Troy, N. Y.	7 W
Mary Louise Rowe ✓	Gettysburg	201 N. Washington St.
Earl Stockslager Rudisill	Gettysburg	16 W
Stewart Hartman Rudisill	Gettysburg	Gettysburg Road
Raymond Musser Rudy	Harrisburg	205 Buford Ave.
Williard Elias Saltgiver	Codorus	1 W
George Elmer Sheffer	Bair	1 E
Charles Augustus Shilke	Lineboro, Md.	2 W

Walter Daniel Spangler	Gettysburg	14-16 E
Marie Llewellyn Vanderslice	Erie	143 Carlisle St.
Norman Jay Gould Wickey	Littlestown	21 W

Candidates for the Degree of Bachelor of Science

Clarence Edgar Bachman	Westminster, Md.	21-23 E
Harry Smith Beetem	Longsdorf	33 S
Mark Brenner	Iola	25 Chambersburg St.
Roy Talmage Brumbaugh	Philadelphia	121 Lincoln Ave.
Berlin Empfield	Blairsville	7 M
Joseph Herr Fritchey	Gettysburg	12 E. Middle St.
George Edgar Hartman	Gettysburg	25 Hanover St.
Clark Wesley Heller	Wapwallopen	9 S
Hoyt Eugene Heller	Wapwallopen	9 S
Henry Kurtz Hufford	Reading	6 S
Herbert Fowler Humphries	Norwood	6 S
Samuel Franz Lehman	Greensburg	8 S
William Sherman McCullough	Chicora	21-23 E
Edwin Clay Morrow	Loysville	6 W
Amos Sentman Musselman	Gettysburg	247 Baltimore St.
Raymond Boyd Nell	Allen	19 S
Orville Mallilieu Ott	Gettysburg	304 Baltimore St.
Elsie Louisa Paul	Weatherly	143 Baltimore St.
Edred Joseph Pennell	Mifflintown	21 S
John Clark Rinn	Indiana	10-12 S
Hubert Royer	Grantsville, Md.	205 Buford Ave.
Charles Milton Sincell	Oakland, Md.	3 S
Martin Luther Valentine	Harney, Md.	4 S
William Elliott Valentine	Gettysburg	121 Lincoln Ave.
Maurice Cornelius Wentz	Lineboro, Md.	27 W
Harry Snyder Wolfersberger	Rockwood	25 W
Emmett Robert Woods	Boiling Springs	166 York St.
Robert Ezra Yohn	Harrisburg	19 S

Seniors 65.

JUNIOR CLASS

Candidates for the Degree of Bachelor of Arts

GROUP

Robert Bruce Albert	1	Bloomsburg	9 S
Robert Jay Beck	2	Columbia, N. J.	24 E
Homer Bortner	1	Brodbecks	26 W
Lee Otis Carbaugh	1	Arendtsville	30 S
Paul Snyder Creager	1	Dillsburg	31 W

Erle Kerper Diehl	1	Gettysburg	47 Hanover St.
Joseph Dale Diehl	1	York	27 W
Samuel Reynolds Diehl	2	Cashtown	14 M
John Frederick Dulebohn	1	Mason and Dixon	35 E
Charles Fleagle	1	Thurmont, Md.	12 M
Harry Lutz Forscht	1	Minersville	26 W
Robert Burns Fortenbaugh	1	Harrisburg	12 E
George Smith Garman	1	Brodbecks	15 W
James Heilman Gross	1	Manchester	29 E
John Peter Gruver	1	York	20 E
Earl Justin Haverstick	1	Altoona	3 E
John Hervey Hege	1	Williamson	6 E
George Robert Heim	1	Loysville	10 M
Clyde Leroy Hesson	1	Taneytown, Md.	18 M
August H. Hinternesch	2	Baltimore, Md.	20 M
George Heck Hummel	2	Harrisburg	20 Baltimore St.
James Perry King	1	Kittaning	34 S
Frank Adam Kister	1	Coney Island, N. Y.	8 E
Daniel Jacob Klinedinst	1	York	22-24 W
Jacob Krissinger Kurtz	1	Berlin	9 M
John Calvin Lang, Jr.	2	Hollidaysburg	26 Chambersburg St.
Paul Yount Livingstone	1	York	9 W
Harold Vane McNair	2	Middletown	16-18 S
Robert Leo McNally	1	Harrisburg	4 M
George Michael Miller	1	York	30 W
Jacob Russell Nicholas	1	Kintnersville	31-33 E
John Dress Pannell	2	Steelton	11 E
Ernest Luther Pee	1	Everett	13 W
Walter Lee Reitz	1	Shanksville	27 E
Walter L. B. Reithmiller	1	Wilkinsburg	23 W
Bertie Clinton Ritz	1	Red Lion	3 M
James Jay Robbins	1	Eyer's Grove	6 M
B. F. Loder Rosenberry	2	Stone Church	20 S
Lillian Margaret Rowe	2	Gettysburg	201 N. Washington St.
Benton Franklin Rudisill	1	Gettysburg	Harrisburg Road
Verna Alverta Schwartz	2	Gettysburg	247 Baltimore St.
David Luther Shaffer	1	Johnstown	143 N. Washington St.
Frances Bradley Sheely	2	Gettysburg	143 Springs Ave.
Frank Edwin Smith	1	Leechburg	21 W
Amy McCurdy Swope	2	Gettysburg	216 Baltimore St.
William Edward Tietbohl	2	South Williamsport	31 W
John Wesley Wolfe	1	Maytown	18 M

Candidates for the Degree of Bachelor of Science

Maurice Edgar Baker	3	Gettysburg	322 Baltimore St.
Claude Francis Beegle	4	Everett	1 S
John Milton Blocher, Jr.	3	Gettysburg	28 W. Middle St.
Raymond Lee Boyle	4	Ocean City, N. J.	28 Chamb'rsbg St.
Robert Stewart Brown	3	Gettysburg	3 Chambersburg St.
Donald Bruce Coover	5	Gettysburg	Springs Ave.
Clyde Early Gerberich	3	Middletown	11 W
John Christian Haberlen	3	Latrobe	22 M
John Calvin Hartman	5	Gettysburg	25 Hanover St.
John Merrill Hepler	9	Reading	11-13 S
Frederick Craft Hetzel	5	Connellsville	15 E
George Eckels Ringwald Kapp	3	New Kingston	23 S
Doyle Revere Leathers	4	Renova	5 S
Paul Markel	3	Union Bridge, Md.	8 W
Ellis L. Mellott	3	Everett	10 M
Martin Lloyd Peters	3	Dallastown	20 M
Edward Hood Sincell	5	Oakland, Md.	3 S
Harold Hartman Spangler	3	Gettysburg	48 York St.
John Morris Steck	5	Smithsburg, Md.	17 E
Charles Harold Steele	3	Middletown	11 W
William Earle Strevig	4	York	25 S
Robert Byron Walker	3	Myersdale	9 M

Juniors 69.

SOPHOMORE CLASS

Candidates for the Degree of Bachelor of Arts

Arthur Edgar Armitage	1	Newark, N. J.	31-33 E
Clyde Lower Bream	2	Gettysburg	202 Carlisle St.
John Franklin Bussard	1	Myersville	5 W
Raymond Lewis Carbaugh	1	Arendtsville	30 S
Clyde Augustus Fasick	2	Mifflintown	16-18 S
John Ward Fisher	1	Cumberiand Valley	10 E
Raymond Edward Haas	1	Phoenixville	17 M
Clement Roscoe Hoffman	1	Gettysburg	166 Carlisle St.
Spurgeon Milton Keeney	1	Shrewsbury	13 E
Frank Henry Kramer	1	West Hoboken, N. J.	34-36 E
John Roy Lovell	1	Glasgow	9 W
Joseph McGill	1	Thurmount, Md.	28 W
Monroe Eugene Miller	1	Millersburg	38-39 E
Oscar Berger Noren	1	Bridgeport, Conn.	10 E
Glenn Fox Poffinberger	1	Highfield	12 M
Titus Calvin Rohrbaugh	1	Porter's Siding	15 M

Charles Henry Shauck	1	York	20 E
Marion Jean Sheely	2	Gettysburg	643 Springs Ave.
Carl Emmons Shirey	2	Youngstown	38-35 E
Thomas Leslie Smith	2	Newport	27 S
Alfred Towne Sutcliffe	1	Hummelstown	22 E
Marguerite Eleanor Weaver	2	Gettysburg	66 W. High St.
Samuel Evaristus Wicker	1	Altoona	4 W
Robert Jacob Wolf	1	Harrisburg	32 S

Candidates for the Degree of Bachelor of Science

Victor Earl Amspacher	3	North York	2 W
Clinton William Beard	3	Gettysburg	205 N. Washington St.
Chester Franklin Coleman	6	Steelton	22 S
Frederick Bowman Dapp	5	Harrisburg	7 S
Norman Edward Diehl	3	Clearspring, Md.	17 M
Edgar McCreary Faber	4	Gettysburg	28 Chambersburg St.
Owen Lamont Fisher	8	Foltz	York Road
George Henry Haberlen	3	Latrobe	22 M
Rudy Faust Hoy	3	Schuylkill Haven	10-12 S
John Franklin Houck	3	Heidlersburg	163 Carlisle St.
Paul Lang Lotz	8	Baltimore, Md.	50 E
George Edgar Miller	3	Gettysburg	162 York St.
John Croft Myers	3	Marion	4 S
Oliver Kane Reed	5	Landsdale	19 E
John Reigle Rupp	3	Gettysburg	209 N. Washington St.
George Harrison Schaeffer	5	Leetonia, O.	28 Chambersburg St.
Erwin Adam Shaffer	3	York	1 S
Samuel Kline Spicher	4	Thompsontown	7 M
Otho Leroy Thomas	4	Gettysburg	240 Chambersburg St.
Harry Jay Troxell	3	Gettysburg	27 Hanover St.
Ralph Montineau Weaver	4	Gettysburg	66 W. High St.
Lester Stewart Witherow	3	Taneytown, Md.	16 M

Sophomores 46.

FRESHMAN CLASS

Candidates for the Degree of Bachelor of Arts

Charles Wolf Baker	1	New Oxford	3 W
Ray Alfred Barnard	2	Harrisburg	28 S
Mary Louise Bayly	2	Gettysburg	301 York St.
Thomas Clifford Bittle	1	Myersville, Md.	3 W
Ann Elizabeth Irene Burford	2	Kittanning	162 York St.
Charles Paul Cessna	1	Rainsburg	13 W
Margaret Hoffman Coover	2	Gettysburg	Springs Ave.
Willard Herman Cree	2	Blandsburg	28 S

Paul Mower Crider	2	Chambersburg	32 E
William Charles Day	1	Baltimore, Md.	28 W
Benjamin Franklin Derr, Jr.	2	Pottsville	29 W
Edgar Josiah Eyles	1	Thurmont, Md.	12 M
Robert Edward Garnes	1	Chambersburg	32 E
Charles Gruber	1	Philadelphia	24 W
Harrison Franklin Harbach	2	Reading	8 M
William Roy Hashinger	1	Coatesville	26 E
Archie Reed Hollinger	1	Gettysburg	Newville Road.
Donald Fisher Ikeler	1	Bloomsburg	9 S
Lloyd Conover Keefauver	2	Gettysburg	22 Carlisle St.
B. Frank Kulp	1	Phoenixville	17 W
James Milton Lotz	1	Altoona	14 W
Hubert Luther McSherry	1	North Washington	7 M
Mahlon Steck Miller	1	Phillipsburg	30 W
Viola Elizabeth Miller	2	Gettysburg	298 Baltimore St.
Robert Mock	1	Richland	38-39 E
Harvey Nagle	1	Pottsville	26 W
Thomas Hay Nixon	1	Gettysburg	1 Campus
Paul William Quay	1	Phoenixville	17 W
Nina Viola Rudisill	2	Littlestown	Stevens St.
Clarence Carnahan Smith	1	Gettysburg R. D.	19 W
Walter Vose Simon	1	Hagerstown, Md.	8 M
Helen Evangeline Sieber	2	Gettysburg	37 W. Middle St.
Lewis Mentzer Storb	1	New Holland	34 S
Amos Eli Taylor	1	Glenville	13 E
David Earl Thomas	1	York	4 M
John Henry Leader Trout	1	Pittsburgh	5-7 E
Virginia Townsend Tudor	2	Gettysburg	115 Springs Ave.
Katherine Adele Valentine	2	Gettysburg	121 Lincoln Ave.
John Robert Wagner	1	Stone Church	2 S
Paul Schleppey Wagner	1	Hazleton	2 S
Frank Brewster Wickersham	2	Steelton	32 S
Homer Henry Wray	2	Leechburg	18 W
Homer Charles Wright	1	Scottdale	8 M

Candidates for the Degree of Bachelor of Science

Thomas Gephart Arnold	7	Bedford	25 E
Frank Buhrman Bittle	3	Turtle Creek	7 S
George Nieman Book	3	Harrisburg	15-17 S
John Butt	3	Gettysburg	129 Carlisle St.
Edwin Luther Folk	3	York	3 W
Richard Freas	8	Brooklyn, N. Y.	34-36 E
Frank Dean Gable	4	Columbia	26 S

Howard Madison Garvin	4	Gettysburg	207 Buford Ave.
Adam F. Geesey, Jr.	4	York	15-17 S
William Nelson Hesse	5	Coatesville	14 M
Jacob Edward Hollinger, Jr.	3	Carlisle	33 S
John Grover Houser	3	Ruffsedale	22 M
Walter Eppley Johns	3	Gettysburg	Steinwehr Ave.
James Franklin Kelly	7	Gettysburg	58 York St.
Stephen Henry Liebensberger	3	Hazleton	2 S
Luther Kyner Musselman	5	Gettysburg	247 Baltimore St.
Clifford Caldwell Patterson	5	Greensburg	8 S
A. Roy Phillipy	3	Greencastle	5 M
Robert Philson, Jr.	5	Berlin	22 S
Franklin Royden Robinson	7	DuBois	5 S
Lloyd Ernest Schrack	4	Columbia	26 S
Clarence Raymond Shook	6	Greencastle	5 M
Winfred Wenner Smith	3	Idaville	18 E
George Emerson Snyder	6	New Oxford	11-13 S
Charles Herbert Thompson	5	Waynesboro	5 M
Harvey Samuel Weidner	3	York Springs	168 Carlisle St.
Marshall Filler Weimer	4	Clearville	38 S
			Freshmen 70.

PARTIAL COURSE STUDENTS

Charles F. Adcock	Pottsville	26 W.
Frieda Bertha Bausch	Everett	228 Carlisle St.
Robert Renfrew Black	Steelton	8 M.
Ruth Mary Bream	Gettysburg	124 Springs Ave.
Van Buren Dayhoff	Steelton	8 M.
Anna Gilliland	Gettysburg	239 Carlisle St.
Frank B. Hege	Williamson	6 E.
Fay Lichty	Elk Lick	8 M.
Robert Dean Miller	Philadelphia	5 M.
Elbert Elijah Oney	Washington, D. C.	14 W.
Gene Van Gundy Sieber	Gettysburg	37 W. Middle St.
Louis Richardson Vail	Philadelphia	Water St.
William Weber	Lewistown	21-23 E.
Maurice Whitney	Morristown, N. J.	3 Campus.
William Ernest Zeigler	Gettysburg	22 Chambersburg St.
		Partial Course 15.

STUDENTS IN THE ACADEMY

SUB-FRESHMAN CLASS

Guy Milton Appler	Gettysburg	26 E. High St.
Frieda Bertha Bausch	Gettysburg	228 Carlisle St.
Paul Bowers Beard	Thurmont, Md.	30 St.
Martin Luther Bell	Big Spring, Md.	39 St.
John William Bream	Cashtown	202 Carlisle St.
Jay William Bringman	Gettysburg	Harrisburg Road
Chester Arthur Dinsmore	Harrisburg	25 St.
Fred Samuel Faber	Gettysburg	28 Chambersburg St.
Richard Inglesby Fitzpatrick	St. Paul, Minn.	49 S
Philip Wright Fitzpatrick	St. Paul, Minn.	49 S
Wouter Van Garrett	Hanover	34 St.
Sewell Elmer Kapp	Biglerville	44 St.
Herman August Keller	Baltimore, Md.	32 St.
John Max Lentz	Gettysburg	116 Baltimore St.
Charles Sterling Longsdorf	Biglerville	44 St.
Paul Martin	Roaring Springs	41 St.
Irving Russell Mayers	Littlestown	23 St.
Roy Joseph Meyer	Wheeling, W. V.	28 St.
Thomas Anderton Monk, Jr.	Turtle Creek	40 St.
James Bratton Parks	Vandergrift	38 St.
Lewis Herman Rehmeyer	Glen Rock	27 St.
Jacob Howard Reinecker	Gettysburg	341 York St.
George Roth	Jersey City, N. J.	40 St.
Edgar Lloyd Rothfuss	Montoursville	39 St.
Jacob Emanuel Rudisill	Gettysburg	Harrisburg Road
Henry August Runde	Jersey City, N. J.	38 St.
Ernest David Schwartz	Gettysburg	Baltimore Pike
John Elmer Spangler	Gettysburg	Baltimore Pike
Mervin Leroy Sterner	Gettysburg	153 Chambersburg St.
Hugh Iseman Stitt	Kittanning	26 St.
Arthur Guy Taughinbaugh	Gettysburg	120 York St.
John Supplee Tome	Maytown	29 St.
Homer Berkley Walker	Orrtanna	1 S
Roy Alvin Weaner	Gettysburg	Harrisburg Road
Erma Ruth Wills	Fairfield	Fairfield
Olin Leroy Wills	Fairfield	Fairfield

Total 36

UPPER MIDDLE CLASS

James Glenn Beall	Frostburg, Md.	46 St.
Hester Blocher	Gettysburg	Confederate Ave,
Henry David Bongartz	Jersey City, N. J.	33 St.
Charles Arthur Brame	Idaville	45 St.
Charles William Duncan	Gettysburg	109 Lincoln Ave
Joseph Harold Hankinson	Newark, N. J.	43 St.
Paul Jacob Horich	Westminster, Md.	45 St.
Chester Arthur Leas	Gettysburg	Granite
Harold Henry Mellin	Everett	24 St.
Jacob Carroll Rupp	Hanover	43 St.
Minot Martineau Shipman	Johnstown	239 Carlisle St.
Irvin Leroy Stine	Gettysburg	E. Middle St.
Joseph Graham Stultz	Hollidaysburg	41 St.
Ida Dorothy Zane	Gettysburg	227 Carlisle St.
		Total 14

LOWER MIDDLE CLASS

Henry Edward Berbehenn	Gettysburg	218 Stratton St.
George Elmer Bookhultz	Washington, D. C.	38 St.
Gertrude Alma Brown	Gettysburg	785 Baltimore St.
John Edward Longanecker,	Oberlin	32 St.
Harry Calvin Lower	McKnightstown	McKnightstown
Guy Staley Meales	Aspers	46 St.
Edwin Diehl Ross	Gettysburg	239 N. Washington St.
Albert Schultz	Gallitzin	41 St.
Paul Stock	Gettysburg	219 Baltimore St.
Eugene Topper	Gettysburg	527 Baltimore St.
Harry Franklin Wentz	Gettysburg	York St.
Roy Clarence Wolf	Gettysburg	Emmitsburg Road
		Total 12

JUNIOR CLASS

Amelia Butt	Gettysburg	129 Carlisle St.
Sara Katherine Butt	Gettysburg	129 Carlisle St.
Guyon Luther Hartzell	Gettysburg	Gettysburg
		Total 3

TOTAL NUMBER OF STUDENTS IN COLLEGE

Graduate	1
Seniors	65
Juniors	69
Sophomores	46
Freshmen	70
Partial	15
	<hr/>
Collegiate Department	266
Academy	65
	<hr/>
	331
Names repeated	1
	<hr/>
Total	330



COMMENCEMENT 1911

COMMENCEMENT ORATOR

Rev. Frederick H. Knubel, New York

GRADUATES

Bachelor of Arts

Charles Millard Allabach	Miles Henry Krumbine,
Mary Martha Bausch ✓	Clay Edward Rice,
Earl Jerome Bowman	Joseph Ernest Stermer,
Clare McClean Davis	Elmer Clayton Stouffer,
Louis Hetzel, ✓	Newton Daniel Swank,
Helen Kendlehart, ✓	Harry Morgan Taxis,
	Burnadette Thomas, ✓

Bachelor of Science

Stanley Thomas Baker,	Milton Valentine Miller,
Alcone Daniel Breitenreiter,	Milton Miller,
Clarence Paul Brown,	Edgar Grimm Miller, Jr.,
Frank Mumma Comfort,	Richard J. Miller,
Maude Adeline Dorsey, ✓	Guy Samuel Raffensperger,
George Granville Hatter,	Paul Beverley Stanley Rice,
George Fernsler Hocker,	John Lawrence Shelley,
Mathias Smyser Lewis,	James Craig Small,
William Walker McCaw.	Rodney Taintor Smith,
	George Mervin Spangler,

Robert B. McClean as of the class of 1897

FOUR YEAR HONORS

Class of 1911

First Honor

Earl Jerome Bowman

Second Honor

Stanley T. Baker	Clarence Paul Brown
Mary M. Bausch	George Granville Hatter
	Elmer C. Stouffer

THREE YEAR HONORS

First Honor

Miles Henry Krumbine

Second Honor

Clare McClean Davis

Richard J. Miller

Graeff Prize in English

Miles Henry Krumbine
with honorable mention of
Clare McClean Davis

Hassler Prize in Latin

Earl C. Rasmussen

Pittsburg Club Prize in Chemistry

Edwin Clay Morrow

Joseph Herr Fritchey

with honorable mention of

Clarence Edgar Bachman

Amos Sentman Musselman

Hubert Royer

Baum Prize in Mathematics

Frank Adam Kister

with honorable mention of

Paul Snyder Creager

Earl J. Haverstick

Maude Nicholas Fahs

Walter Lee Reitz

John Dress Pannell

Lillian M. Rowe

Muhlenburg Freshman Prize

Spurgeon M. Keeney

with honorable mention of
Oscar Berger Noren

PRIZES IN DEBATE

First Prize

Charles Fausold

Charles Edgar Liebegott

Norman Jay Gould Wickey

Second Prize

John C. Haberlen

George Robert Heim

Frank Edwin Smith

Reddig Prize in Oratory

Elmer W. Harner

with honorable mention of
Norman Jay Gould Wickey

HONORARY DEGREES

CONFERRED AT COMMENCEMENT, 1911

Doctor of Laws

Hon. Dimner Beeber, Esq., Philadelphia, Pa.
Milton B. Hartzell, M.D., Philadelphia, Pa.

Doctor of Science

Prof. Charles B. Fager, M.D., Harrisburg, Pa.

Master of Art

CLASS OF '02.

Paul D. B. Witman,

CLASS OF '03

Ralph P. Lewars,

CLASS OF '05.

James Allen Dickson,

CLASS OF '07.

Belle W Bream,
Franklin W. Moser,

Thomas E. Shearer,
Paul R. Sieber.

William C. Waltemeyer,

CLASS OF '08.

David L. Baker,
Albert D. Bell,
William A. Berkey,
Grace M. Blocher,
Edwin A. Chamberlin,
Oscar C. Dean,
Frank P. Fisher,
Lillia R. Gantt,
Herbert S. Garnes,
Mary Hay Himes,

Stacy E. Peters,
Edmund L. Manges,
Anna J. Wetterau,
Ernest V. Roland,
Anna E. McLaughlin,
George W. Kessler,
Guy B. King,
Fred G. Troxell,
Jonas K. Robb,
George M. Rice,

Frederick W. Wittich.

Master of Science

CLASS OF '08.

George L. Laverty,

Edgar A. Miller

Martin L. Wachtel.

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Gettysburg, Pa.

Pennsylvania College
Founded in 1832

Vol. III

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Published by the College

No. 2

1912

JULY							SEPTEMBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	1	2	3	4	5	6	7	..	..	..	..	..	1	2
7	8	9	10	11	12	13	8	9	10	11	12	13	14	3	4	5	6	7	8	9
14	15	16	17	18	19	20	15	16	17	18	19	20	21	10	11	12	13	14	15	16
21	22	23	24	25	26	27	22	23	24	25	26	27	28	17	18	19	20	21	22	23
28	29	30	31	..	..	..	29	30	..	..	..	..	..	24	25	26	27	28	29	30

1913

JANUARY							MAY							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	1	2	3	..	1	2	3	4	5	6	
5	6	7	8	9	10	11	4	5	6	7	8	9	10	7	8	9	10	11	12	13
12	13	14	15	16	17	18	11	12	13	14	15	16	17	14	15	16	17	18	19	20
19	20	21	22	23	24	25	18	19	20	21	22	23	24	21	22	23	24	25	26	27
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FEBRUARY							JUNE							OCTOBER							
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2	3	4	5	6	7	8	8	9	10	11	12	13	14	5	6	7	8	9	10	11	
9	10	11	12	13	14	15	15	16	17	18	19	20	21	12	13	14	15	16	17	18	
16	17	18	19	20	21	22	22	23	24	25	26	27	28	19	20	21	22	23	24	25	
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MARCH							JULY							NOVEMBER						
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3	4	5	6	7	8	9	6	7	8	9	10	11	12	3	4	5	6	7	8	9
10	11	12	13	14	15	16	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	16	17	18	19	20	21	22
23	24	25	26	27	28	29	27	28	29	30	31	..	..	23	24	25	26	27	28	29
30	31	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..

APRIL							AUGUST							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	..	..	1	2	1	2	3	4	5	6	7
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	..	..	..	24	25	26	27	28	29	30	28	29	30	31	..	..	..
..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..

1914

JANUARY							MARCH							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	..	..	..	..	1	2	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	3	4	5	6	7	8	9
11	12	13	14	15	16	17	15	16	17	18	19	20	21	10	11	12	13	14	15	16
18	19	20	21	22	23	24	22	23	24	25	26	27	28	17	18	19	20	21	22	23
25	26	27	28	29	30	31	29	30	31	..	..	..	..	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..

FEBRUARY							APRIL							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	..	1	2	3	4	..	1	2	3	4	5	6
8	9	10	11	12	13	14	5	6	7	8	9	10	11	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	21	22	23	24	25	26	27
..	..	..	..	..	..	..	26	27	28	29	30	..	..	28	29	30	..	..	..	..

COLLEGE CALENDAR—1912-1913-1914

1912.

- September 9-10. Monday-Tuesday, Entrance Examinations.
September 11. Wednesday, 8 A. M., College Year begins.
November 27. Wednesday, Noon, Thanksgiving Recess begins.
December 2. Monday, Noon, Thanksgiving Recess ends.
December 20. Friday, Noon, Christmas Recess begins.

1913.

- January 3. Friday, 7.40 A. M., Christmas Recess ends.
February 3
to
February 7. Monday to Friday, Examinations closing semester.
February 7. Friday, Noon, First Semester ends.
February 7. Friday, Noon, Second Semester begins.
March 20. Thursday, Noon, Easter Recess begins.
March 26. Wednesday, 7.40 A. M., Easter Recess ends.
May 20. Tuesday, Junior Latin Examination for Hassler Prize.
June 2-4. Monday-Wednesday, Final Examination of Senior Class.
June 2-6. Monday-Friday, Examinations closing the year.
June 8. Sunday Morning, Baccalaureate Sermon, by President Granville.
June 8. Sunday Evening, Discourse before Y. M. C. A.
June 9-10. Monday-Tuesday, Entrance Examinations.

- June 10. Tuesday, 9 A. M., Meeting of Board of Trustees.
- June 10. Tuesday, 10 A. M., Junior Oratorical Contest for Reddig Prize.
- June 10. Tuesday Afternoon, Senior Class Day.
- June 10. Tuesday Evening, President's Reception.
- June 11. Wednesday, 9 A. M., Commencement Exercises.
- June 11. Wednesday, 1 P. M., Alumni Collation.

Summer Vacation

- September 8-9. Monday-Tuesday, Entrance Examinations.
- September 10. Wednesday, 8 A. M., College Year begins.
- November 26. Wednesday, Noon, Thanksgiving Recess begins.
- December 1. Monday, Noon, Thanksgiving Recess ends.
- December 19. Friday, Noon, Christmas Recess begins.
- 1914.
- January 6. Tuesday, 7.40 A. M., Christmas Recess ends.
- February 2-6. Monday to Friday, Examinations closing semester.
- February 6. Friday, Noon, First Semester ends.
- February 6. Friday, Noon, Second Semester begins.
- April 9. Thursday, Noon, Easter Recess begins.
- April 15. Wednesday, 7.40 A. M., Easter Recess ends.
- June 10. Wednesday, Commencement.

HISTORICAL

The Charter of Pennsylvania College was approved April 7, 1832. The opening paragraphs are:

WHEREAS, the literary and scientific institution in Gettysburg, Adams county, in this Commonwealth, known by the name of Gettysburg Gymnasium, is resorted to by a large number of young men from different portions of this state, and elsewhere, and promises to exert a salutary influence in advancing the cause of liberal education, particularly among the German portion of our fellow citizens; therefore,

SECTION 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same, That the Gettysburg Gymnasium be, and hereby is erected into a College, for the education of youth in the learned languages, the arts, sciences and useful literature.

SECT. 2. And be it further enacted by the authority aforesaid, That the style and title of said college shall be "Pennsylvania College of Gettysburg" and that it shall be under the management, direction and government of all the subscribers to the funds of said institution, by whose private contributions the said funds have been raised and its present edifice purchased, to wit: John B. McPherson, Thomas C. Miller, Thomas J. Cooper, Samuel Fahnestock, Samuel S. Schmucker, Ernest L. Hazelin, David F. Schaeffer, John G. Morris, Benjamin Kurtz, William Heim, Charles P. Krauth, Frederick D. Schaeffer, J. George Schmucker, J. F. Heyer, Jacob Martin, Abraham Reck, William Ernst, Jacob Medtard, Lewis Eichelberger, Michael Meyerheffer, Jonathan Ruthrauff, Jacob Crigler, John F. Macfarlane, Robert Goodloe Harper, John Herbst, and their successors, to be elected as hereinafter mentioned.

SEC. 3. And be it further enacted by the authority aforesaid, That the said subscribers and their successors, to be elected as hereinafter mentioned, shall forever hereafter be, and they are hereby erected, established and declared to be one body politic and corporate, with perpetual succession in deed and law, to all intents and purposes, whatsoever, by the name, style and title of "The Patrons of Pennsylvania College in Gettysburg, in the County of Adams."

SEC. 4. And be it further enacted by the authority aforesaid, That the aforesaid "Patrons of Pennsylvania College" and their successors shall have power from time to time to elect from their own number or elsewhere, a board of trustees, twenty-one in number (Provided always, That at least three-fourths of them be selected from among the patrons); and at elections either for patrons, or trustees, or teachers, or other officers, and in the reception of pupils, no person shall be rejected on account of his conscientious persuasion in matters of religion, provided he shall demean himself in a sober manner, and conform to the rules and regulations of the college.

Two unique features in the establishment of colleges appear in the foundation of this college. First, the college in a large measure grew out of the necessity of properly preparing men for the Theological Seminary, established in 1826 at Gettysburg. This purpose has never lessened and to-day the institution regards this as an important feature of its work and offers special opportunities to young men preparing themselves for theological studies.

Pennsylvania College in its beginnings, its history and its purpose is closely identified with the Lutheran Church.

The other feature is thus stated in the charter:

In addition to the customary professorships in other colleges, there shall be in this institution a German professorship, the incumbent of which shall, in addition to such other

duties as may be assigned him by the board, instruct such young men as may resort to the institution for the purpose of becoming qualified to be teachers of those primary schools, in which according to the Act passed last session, both German and English are to be taught.

While for a number of years there has been no call for the teaching of German in elementary schools—the college has given prominence to instruction in the German language and literature and has made a specialty of preparation for the teaching profession.

Thus in the foundation of the college the demands of the times were carefully considered and ever since the aim has been to meet the special educational needs of our people.

The college began with no endowment, a small building (now a residence on the south-east corner of Washington and High streets), and a small attendance; but there were able instructors who had a well directed enthusiasm for educational work and a large spirit of self-sacrifice, and this combination commanded success from the beginning.

Among the founders of the college special mention should be made of S. S. Schmucker, D.D., Professor in the Theological Seminary at Gettysburg, who was the directing spirit in evolving the Gettysburg Gymnasium into a college and who presided unofficially over the college for two years. In the State legislature were a number of friends of the college, prominent among them Thaddeus Stevens, the father of the public school system of Pennsylvania. Several money grants were made the college by the legislature, which were largely spent in the erection of the building known as Pennsylvania Hall.

In 1834 Charles Philip Krauth, D.D., was elected President and continued till he became professor in the Theological Seminary in 1850. During this time Pennsylvania Hall was erected (1836-8) and used for recitation rooms, dormitory, President's residence and dining hall. In 1846-7 Linnaean Hall, now the gymnasium, was erected largely through the efforts and labor of the students. In 1850 the Lutheran interest in Franklin College at Lancaster, Pa., was transferred to Pennsylvania College

and used in the endowment of the Franklin Professorship of Greek; this transfer also led to an increase to thirty-six in the number constituting the Board of Trustees, which became a self-perpetuating body with life membership.

In 1850 Henry Louis Baugher, D.D., Professor of Greek, was elected President, continuing in office till his death in 1868. During this period were erected the President's House (1846), Stevens' Hall (1867-8), for the use of the Preparatory Department, and the Professors' residences (1867-8). In 1851-4 the Ministerium of Pennsylvania was largely instrumental in gathering funds for the endowment of the German professorship. In 1864, as the results of a special endowment, considerable sums of money were obtained, the chief being from Mr. John E. Graeff, class of '43, of Philadelphia, for the establishment of a professorship of the English language and literature, and from the Ockershausen brothers of New York, for the endowment of a professorship in Science. In 1868 the will of Mr. Davis Pearson of Philadelphia, provided for certain sums, afterwards added to by his sons, for the endowment of the professorship of Latin.

On the death of President Baugher, Milton Valentine, D.D., class of '50, then a professor in the Theological Seminary, was elected President and continued in the office till he returned to the Theological Seminary in 1884. During this period were erected the McCreary Gymnasium (1872) now the Chemical Laboratory, and the Astronomical Observatory, (1874). The alumni consummated a movement which had been in progress for a number of years in collecting funds for the endowment of an Alumni Professorship which later has been assigned to the department of Mathematics and Astronomy. In 1884 a course of study leading to the degree of Bachelor of Science was first offered.

Harvey Washington McKnight, D.D., LL.D., class of '65, was elected President in 1884 and continued till his resignation in 1904. This period was marked by the erection of Glatfelter Hall, named as a memorial to the late P. H. Glatfelter of Spring Grove (1888-9), Brua Chapel (1889-90), the steam plant and water

plant, the remodeling of Pennsylvania Hall, the altering of the McCreary Gymnasium to serve as the Chemical Laboratory, and the Linnaean Hall to serve as a Gymnasium (1889-90). South College was erected in 1897. The will of Mr. William Bittinger of Adams County, in 1887, provided funds for the endowment of the chair of Intellectual and Moral Science. In 1889 the father and brothers of Charles H. Graff, M.D., class of '76, deceased, provided the funds for a memorial foundation of a professorship now devoted to Biology and Hygiene. In 1892 Mr. James Strong of Philadelphia, provided a memorial to his wife in the foundation of the Amanda Rupert Strong professorship of the English Bible and Chaplaincy. In 1891-2 a small number of electives were first offered in the Junior and Senior years. The funds for the grading and equipment of Nixon Athletic Field were provided by a student movement, the field being first used in 1895.

Samuel Gring Hefelbower, D.D., class of '91, for several years Professor of German, was in 1904 elected President and continued in office till 1910. During this time there were established professorships in Romance Languages and in Physics, the Department of Philosophy also being separated from chair associated with the presidency, with the addition to the teaching force of assistants in Mathematics, in English, in Physics, and a second assistant in Chemistry. In part the increased expense was met by an increase in student fees and an increase in the number of students. During this time began the formation of Woman's Leagues—who work in the interests of the college, having as one purpose the providing for the salary of the Y. M. C. A. Secretary.

In 1910 William Anthony Granville, Ph.D., a member of the mathematical faculty of the Sheffield Scientific School of Yale University, was elected President. The inauguration of the new administrative head of the institution occurred in Oct. 1910. Since then the requirements for admission to the college have been increased. The college work has been expanded, the group arrangement of the curriculum has been adopted, vocational groups in Commerce and Finance, in Civil and Municipal En-

gincering have been introduced. At the winter meeting, 1912, the Board of Trustees directed arrangements should be made for courses in Mechanical and Electrical Engineering. In 1910 was established the Burton F. Blough Professorship of Civil Engineering, being named in honor of the largest among several contributors to the fund from Harrisburg, Pa.

There is every reason to expect that by July 1, 1913, the movement to raise the sum of \$180,000 will be successful, thus securing an additional \$50,000 from the General Education Board.

The very successful recent beginning of a system of student self-government is in keeping with the constant purpose of the college to develop not only the intellectual growth, but also the highest character of its students.

As in the beginning of the college every effort was made to meet the special educational needs of the time and of the community served by the college, so now the establishment of several new courses of study aims to open the college opportunities to an increasing number of young people, who desire a general college training.



LOCATION

Gettysburg is situated in the beautiful rolling area of the red shale belt of Pennsylvania, with its ridges of intrusive rock. A few miles west is the South Mountain ridge of the Blue Mountains. The situation is healthful and there is a good water supply. The town is readily reached from all directions by the Philadelphia and Reading, and the Western Maryland Railways, which connect at Harrisburg, Pa., and Baltimore, Md., with the great railway systems of Pennsylvania and the south.

The community is law abiding and the moral influences are those of the small town as contrasted with the large city, and also there are less distractions from study than prevail in a city.

The historic association of Gettysburg with the Civil War gives the location great additional interest. The events of the Battle of Gettysburg are recorded in inscriptions on several hundred monuments and markers, many of these being of large size and of artistic merit. The U. S. Battlefield Commission has made the field accessible by 35 miles of fine avenues along which are the markings which indicate the battle lines—in some cases the actual entrenchments are preserved. Here also is the National Cemetery where Lincoln made his ever to be remembered dedication speech. Among the thousands of visitors coming annually to the field, are men of national prominence who often speak to the student body. Such surroundings must develop a love of our united country and inspire to better citizenship.

BOARD OF TRUSTEES

Elected

1873. Hon. George Ryneal, Jr.....Martinsburg, W. Va
1890. Hon. Samuel McC. Swope.....Gettysburg
1890. William H. Dunbar, D.D.....Baltimore, Md.
1892. Thomas C. Billheimer, D.D.....Gettysburg
1893. John Wagner, D.D.....Hazleton
1894. Charles M. Stock, D.D.....Hanover
1896. John B. McPherson, Esq.....Boston, Mass.
1897. John Jacob Young, D.D.....New York, N.Y.
1897. William A. Shipman, D.D.....Johnstown
1898. Henry C. Picking.....Gettysburg
1899. Charles F. Stifel.....Pittsburgh
1899. Henry H. Weber, D.D.....York
1902. Charles Baum, M.D., Ph.D.....Philadelphia
1905. Milton H. Valentine, D.D.....Philadelphia
1906. Samuel G. Hefelbower, D.D.....Cambridge, Mass.
1906. George E. Neff, Esq.....York
1907. Luther P. Eisenhart, Ph.D.....Princeton, N. J.
1907. Martin H. Buehler.....Baltimore, Md.
1907. Hon. R. William Bream.....Gettysburg
1907. Frederick H. Bloomhardt, M.D.....Altoona
1907. Alpheus Edwin Wagner, D.D.....Altoona
1908. William J. Gies, Ph.D.....New York, N. Y.
1908. William L. Glatfelter.....Spring Grove

1908. Frank E. Colvin, Esq.....Bedford
1908. John F. Dapp.....Harrisburg
1908. George B. Kunkel, M.D.....Harrisburg
1908. Jacob A. Clutz, D.D.....Gettysburg
1910. William A. Granville, Ph.D., LL.D.....Gettysburg
1910. Charles J. Fite.....Pittsburgh
1910. Burton F. Blough.....Harrisburg
1912. Charles H. BoyerChicago, Ill.
1912. Winslow S. Pierce, Esq.....New York, N. Y.

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Assistant in Physics
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Extension Lecturer on Educational Topics
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Pennsylvania College

17

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Proctor

14 S.

GEORGE ECKELS R. KAPP
Proctor

7 M.

ROBERT BRUCE ALBERT
Proctor

9 S.

EARL JEROME BOWMAN, A.B.
Y. M. C. A. Secretary

Theological Seminary

JOHN B. HAMILTON
Superintendent of Buildings and Grounds

ABRAHAM STAHLEY
ROBERT WISLER
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} Assistants



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Class Officers.

Senior Class	Professor Stahley
Junior Class	Professor Sanders
Sophomore Class	Professor Nixon
Freshman Class	Professor Wentz

Entrance Conditions.—Dean Bikle, Professors Nixon and Grimm.

Library.—President Granville and Professor Grimm.

Bulletin.—Professors Breidenbaugh, Himes, Parsons and Huber, President Granville, ex officio.

Hour Schedule.—Professors Breidenbaugh and Grimm.

Students' Publications.—Professors Sanders, Grimm and Dean Bikle.

Supervision of Finance of Students' Publications.—Dean Bikle, Professors Himes and Breidenbaugh.

Lectures.—Dean Bikle and Professor Wentz.

Advanced Degrees.—Professors Grimm, Bikle and Stahley.

Representative on Athletic Council.—Professor Wentz.



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B. Franklin Derr, '15, Marshall.

Homer C. Wright, '15.

J. A. Yagle, '16, Messenger.



ADMISSION

Applicants for admission are required to present evidence of good moral character. An applicant from another school is required to present a certificate of good standing in, and regular dismissal from the institution which he or she has left.

Women are admitted as day pupils, to all the courses of study.

Methods of Admission

Entrance examinations are held on the Monday and Tuesday before the opening of the College year and on the Monday and Tuesday of Commencement Week. The method of admission is by either examination or certificate from approved secondary or high schools or from private instructors. This certificate must state the amount of work done in, and the time given to each subject, with the grades received.

Blank admission certificates can be obtained from the Registrar. These certificates should be filled out and returned to the Registrar as early as possible, at least several days before the opening of the college work.

The Committee on Entrance, from these certificates and by personal interviews when necessary, determines the standing of the applicant.

Each applicant for admission should call on the Registrar before or at the opening of the semester, pay the registration fee of \$5.00, be informed as to the action of the committee on entrance, receive matriculation blanks and be instructed in manner of filling such blanks.

To receive the full advantage of the college course a thorough entrance preparation is indispensable. Students imperfectly prepared for the class they enter do not make satisfactory progress in their work.

Subjects for Admission

The subjects to be presented for admission to the Freshman class are divided into two groups, from which a total of fourteen (14) units are required.

The subjects of Group A, comprising five (5) units, are required of all students.

From Group B the applicant selects nine (9) units under the conditions stated in connection with each group of college studies on pages 30-31. Other entrance units may be allowed in special cases.

The units are based on the requirements of the College Entrance Examination Board.

Group A—(Required of all Candidates)

English..... 3 units

Mathematics.

- A Algebra1 unit
- B Plane Geometry1 unit

Group B—(Elective)

*Greek.**

- A Grammar and four books of Xenophon.....2 units
- B Composition, three books of Homer, and
sight translation1 unit

Latin.

- A Grammar and four books of Caesar.....2 units
- B Composition and six books of Cicero.....1 unit
- C Six books of Vergil.....1 unit

German.

Two years2 units

French.

Two years2 units

*See page 46 for beginning of Greek in College.

Mathematics.

C	Advanced Algebra.....	1/2	unit
D	Solid Geometry	1/2	unit
E	Plane Trigonometry	1/2	unit

Mechanical Drawing.

One year.....	1	unit
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History.

United States	1	unit
England	1	unit
Ancient	1	unit
Mediaeval	1	unit

Geography, Political and Physical 1 unit

Chemistry.

One year	1	unit
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Physics.

One year	1	unit
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Botany.

One year	1	unit
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Zoology.

One year	1	unit
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NOTE.—Those offering college work for entrance will substitute other subjects during the college course. In special cases other subjects may be substituted for a portion of the above named entrance subjects.



ADMISSION SUBJECTS IN DETAIL

English

In English the study of the following books, recommended by the National Conference on Uniform Entrance Requirements, will be required for 1912-1913:

A Reasonable familiarity with the substance of the work:

The following are preferred, though alternatives are accepted: Shakespeare's *Merchant of Venice* and *Julius Caesar*; Addison's *Sir Roger de Coverley Papers*; Goldsmith's *Deserted Village*; Scott's *Ivanhoe* and *Lady of the Lake*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *Passing of Arthur*; Ruskin's *Sesame and Lillies*.

B More careful and specific study:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Washington's *Farewell Address*; Webster's *First Bunker Hill Oration*; Carlyle's *Essay on Burns*.

The candidate will be required to present evidence of a general knowledge of the subject matter and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics designed to test the candidate's power of clear and accurate expression and will call for only a general knowledge of the substance of the books. Questions involving the essentials of English Grammar and the four fundamental principles of Rhetoric will be part of the examination.

No candidate will be accepted in English whose work is notably deficient in spelling, punctuation, idiom, or division into paragraphs.

Mathematics

A Algebra. The four fundamental operations for rational algebraic expressions; factoring, determination of the highest

common factor and least common multiple by factoring; fractions, involution, evolution, radicals and imaginary quantities. Equations of the first and second degree, ratio and proportion, progressions; binomial theorem for positive integral exponents, and permutations and combinations limited to simple cases.

B Plane Geometry. Five Books. Demonstration of theorems and constructions, including rectilinear figures, circles, proportional lines and similar figures; comparison and measurement of surfaces, including triangles, regular polygons and circles; maxima and minima; originals.

C, D, E The entrance requirements in Advanced Algebra, Solid Geometry and Plane Trigonometry are similar to the work done in these subjects in the College Courses as given on page 65. For advanced standing in Solid Geometry and Trigonometry, candidates must present note-books and other evidence of thorough work.

Mechanical Drawing

One year's work is required and the submission of the drawings done with a certificate from the instructor.

Political and Physical Geography

The requirement in Political Geography is met by any good text-book, in Physical Geography or Physiography, any text-book equivalent to Gilbert and Brigham's Introduction to Physical Geography, Davis' Elementary Physical Geography or Tarr's New Physical Geography.

Greek

A1 Grammar. The candidate must have familiarized himself with the essentials of grammar, namely, the inflections of substantives and verbs; the syntax of cases, and of the moods and tenses of the verb; the simple rules for the composition and derivation of words; the structure of sentences with particular regard to conditional and relative sentences, indirect discourse, and final clauses.

A2 Xenophon. The first four books of the *Anabasis*.

B1 Prose Composition. The requirements in prose composition involve the ability to translate into idiomatic Greek, continuous narrative based on Xenophon's *Anabasis*, Book II, and other Attic prose of similar difficulty. Due regard must be paid to the principles and practice of accentuation.

B2 Homer. The first three books of the *Iliad* (omitting II, 494-end) or of the *Odyssey*, including the Homeric forms, constructions and prosody.

B3 Sight Translation. One of the most important assets which a student can bring to the study of college Greek is the ability to read easily at sight passages of equal difficulty with the *Anabasis* or the *Hellenica*. For this purpose he should memorize as a working vocabulary, the principal words in Xenophon and the three books of Homer.

See page 46 for beginning of Greek in College.

Latin

A1 Grammar. Allen and Greenough's preferred.

A2 Caesar's *Gallic War*, Books I-IV.

B1 Prose Composition, including the translation of English passages on Caesar and Cicero.

B2 Six Orations of Cicero, including at least two against Catiline, and the one for Archias, and the one for the Manilian Law.

C Vergil's *Aeneid*, Books I-VI, and so much prosody as relates to Latin versification in general and the dactylic hexameter in particular.

Equivalents will be accepted for work done in Sallust or Ovid or other authors of equal rank.

German

The requirements in German presuppose a systematic course extending over at least two years of school work.

The candidate is expected to be able to pronounce German clearly and distinctly. He must possess an accurate knowledge

of the rudiments of grammar, and should have acquired an elementary German vocabulary. He should be able to translate easy prose and poetry, put into German simple English sentences taken from the language of every-day life and also easy selections from English narrative prose.

French

The requirements in French are similar to those in German, including the ability to pronounce French accurately, to read easy French prose, to put into French simple English sentences taken from the language of every-day life and also easy selections from English narrative prose, and a good knowledge of the rudiments of French grammar.

History

A United States. Montgomery's *Leading Facts of American History*, or its equivalent.

B England. Walker's *Essentials of English History*, or its equivalent.

C Ancient. Myers' *Ancient History*, or its equivalent.

D Mediaeval and Modern. Myers' *Mediaeval and Modern History*, or its equivalent.

Chemistry

The candidate should have such knowledge of the general principles of the science and of the properties of the more important elements as may be obtained by a careful study of a text-book of the scope of Remsen's *Introduction to the Study of Chemistry*, Briefer Course.

The pupil should have performed in the laboratory experiments in number and general character the equivalent of those given in Remsen's *Introduction*. The record of this work must be contained in a note book describing in the pupil's own words the materials used, the apparatus employed (with drawings), the changes occurring and the resulting products with the conclusions properly drawn from the phenomena observed.

This note book must be presented bearing the following endorsement by the instructor. "This note book is a true and original record of experiments actually performed by — in — school during the year —."

Physics

A good high school course, using any standard high school text, covering the simple principles of Physics, descriptive and experimental rather than mathematical, including not less than three class periods and two hours of laboratory work per week for one year. A high school or preparatory course in Physics, laying emphasis on mathematical formulæ is not desirable.

Botany

A teacher's certificate showing that a full year of four, one-hour periods a week were devoted to text-book and laboratory study of this subject with the aid of Bergen's *Essentials of Botany* or some other standard book of equal merit. Drawings and note books are required.

Zoology

A teacher's certificate indicating that a full year of four one-hour periods a week were elected in this subject. Davison's *Practical Zoology* or any other standard guide of equal grade will be accepted. Note books and drawings must accompany the certificate.

ADVANCED STANDING

A candidate for advanced standing, in addition to the entrance requirements is required to submit evidence of the satisfactory character of the work for which advanced credit is asked. Blanks for such applications are furnished by the Registrar.

No one is admitted to the College after the beginning of the Senior year.

PARTIAL COURSE STUDENTS

Persons so situated that they are not able or do not wish to pursue a course of study leading to a degree are admitted as partial course students in such subjects as examination may show that the applicant is prepared to pursue with advantage. Such student shall have not less than fourteen units of college work each week.

Students of the Theological Seminary are admitted to single courses in the college.

The Faculty may also admit to one or more single courses such applicants as have special qualifications for the subjects they desire to pursue.



THE GROUP SYSTEM

The courses of study in the college are arranged in groups. These groups are designed to be of equal value in the mental training of the student. This arrangement accomplishes several purposes. It enables the student to select those subjects which are of special value in preparation for subsequent professional study or business. It enables the college to provide for students who do not wish to enter on the older college courses of study. It provides in each group for a general training and broad culture which requires the student not to specialize but to concentrate a fair proportion of his time and energy on one or two related subjects. This gives a fuller training of the mental powers than results from a more diffused and often aimless selection of studies in a too largely elective system.

Each group of studies is described in detail on pages 32-41.

Besides these groups of non-professional courses, provision has recently been made for the establishment of Courses in Civil, Municipal, Mechanical and Electrical Engineering.

Value of a Period and of a Unit

In the statement of courses a period, unless otherwise specified, is a weekly exercise for one year. A unit of college work consists of the equivalent of one weekly exercise, either a recitation, a lecture, a laboratory period of two and a half or three hours or an assignment of work on which an examination is held. A lecture having connected with it two laboratory hours counts as one unit and a half.

In the tables, pages 32 to 41, the unit credits are the same as the number of periods, unless otherwise stated.

Group I. Greek and Latin

Entrance requirements: English; Mathematics; Greek A, B; Latin, A, B, C; and two elective units.

This group is largely based on the long established classical curriculum, not however requiring as large an amount of the ancient languages as formerly, thus giving an opportunity for study in other subjects.

This group is specially recommended for those intending to enter the ministerial or legal professions and also provides the necessary foundation for advanced language study.

This group leads to the degree of Bachelor of Arts.

Group II. Latin and Modern Languages

Entrance Requirements: English; Mathematics; Latin A, B, C; German or French or Greek A; History one unit; and two elective units.

In this group the emphasis is laid on the modern languages and provides for those who wish to make a special study of them.

This group is well adapted to preparation for legal or literary pursuits and for teaching.

This group leads to the degree of Bachelor of Arts.

Group III. Latin and Chemistry or Physics

Entrance Requirements: English; Mathematics; Latin A, B, C; German or French; History one unit, and two elective units

In this group emphasis is laid on Chemistry and Physics with the requirement that the student shall give special attention to one of these subjects. The literary training is given by a continuance of Latin during the Freshman year with sufficient time devoted to the modern languages to enable the student to obtain a good command of these languages.

This and the following group are recommended to those who intend to enter on scientific professional studies including engineering or to engage in manufacturing or commercial pursuits, or who intend to teach in these subjects.

This group leads to the degree of Bachelor of Science.

Group IV. Modern Language and Chemistry or Physics

Entrance Requirements: English; Mathematics; two languages, German, French or Latin A, B; and five elective units

(if Latin is offered four) of which not more than two can be in Science.

This group is the same as Group III, except that modern languages entirely replace Latin.

This group leads to the degree of Bachelor of Science.

Group V. Biology, Chemistry and Physics—Pre-Medical Group

Entrance Requirements: English; Mathematics; two languages, German, French or Latin A, B; and five elective units (if Latin is offered four) of which not more than two can be in Science.

In this group the student obtains a good foundation in each of the great divisions of scientific study and it is recommended specially to those who intend to enter on medical studies or to teach general science.

This group leads to the degree of Bachelor of Science.

Group VI. Commerce and Finance

Entrance Requirements: English; Mathematics; German; French and History A, B, C, D, and one elective unit. Commercial Arithmetic may be offered as a substitute for Ancient History.

This group is arranged to meet the needs of those who do not wish to pursue general scientific or literary studies but desire to prepare themselves for commercial or financial pursuits.

This group leads to the degree of Bachelor of Science.

Group VII. Civil Engineering

Group VIII. Municipal Engineering

Group IX. Mechanical Engineering

Group X. Electrical Engineering

For Groups VII.-X., Entrance Requirements: English; Mathematics A, B, D and E; German; Latin A, B, or French; Science, not more than 2 units; sufficient electives to make the total requirement 14 units.

Group I. Greek and Latin

FRESHMAN YEAR.

- | | |
|--|---|
| GREEK 1, 2. <i>Three periods.</i>
Xenophon: Hellenica, Lysias. | MATHEMATICS 1, 2. <i>Three periods.</i>
Solid Geometry, Plane and
Spherical Trigonometry. |
| LATIN 1, 2, 3. <i>Three periods.</i>
Livy, Horace: Odes, Cicero:
De Senectute. | HISTORY 1. <i>Two periods.</i>
Political History of Modern Eu-
rope. |
| ENGLISH 1, 2, 3. <i>Two periods.</i>
Rhetoric, History of American
Literature. | ENGLISH BIBLE 1. <i>One period.</i>
General Introduction. |
| | CHEMISTRY 1. <i>Three lectures and
six laboratory hours.</i>
General Chemistry. |

SOPHOMORE YEAR.

- | | |
|--|--|
| GREEK 3, 4. <i>Three periods.</i>
Plato: Apology and Crilo.
Homer: Odyssey. | MATHEMATICS 3, 4. <i>Three periods.</i>
Advanced Algebra, Plane Analy-
tic Geometry. |
| LATIN 4, 5, 6. <i>Three periods.</i>
Cicero: De Amicitia or De Na-
tura Deorum, Horace: Sa-
tires, De Arte Poetica, Tacit-
us. | GERMAN B. <i>Three periods.</i>
Grammar, Composition, Transla-
tion. |
| ENGLISH 4, 5, 6. <i>Two periods.</i>
History of English Literature. | PHILOSOPHY 1, 2. <i>Two periods.</i>
Psychology, Introduction to Phi-
losophy. |

JUNIOR YEAR.

- | | |
|--|--|
| ENGLISH 10, 11. <i>Two periods.</i>
Shakespeare, Milton, Nineteenth
Century Poets. | EVIDENCES of CHRISTIANITY. <i>Two
periods, first semester.</i> |
| GERMAN 1 or 2. <i>Three periods.</i>
Syntax, Composition, Conversa-
tion, Modern Prose, Private
reading, (or Classics). | PHILOSOPHY 3, 5. <i>Two periods.</i>
Logic, Ethics. |
| Or | PHYSICS A, or 1 and 2 as advised.
<i>Three lectures and three labo-
ratory hours. Four units.</i> |
| FRENCH A. <i>Three periods.</i>
Grammar, Composition, Transla-
tion. | General Physics.
ELECTIVES to complete <i>fifteen units.</i> |

SENIOR YEAR.

- | | |
|---|---|
| POLITICAL SCIENCE 2. <i>Three periods.</i>
Economics, International Law. | ELECTIVES to complete <i>fifteen units.</i> |
| PHILOSOPHY 6-8. <i>Four periods.</i>
History of Philosophy, Theism. | |
| COMPOSITION and SPEAKING <i>throughout the four years.</i> | |

Group II. Latin and Modern Languages

FRESHMAN YEAR.

- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- *GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- One { BIOLOGY 1, 2, 3.
General Biology, Zoology.
CHEMISTRY 1.
General Chemistry.
PHYSICS A or 1 and 2.
General Physics.
Three lectures and laboratory work. Three to four units.

SOPHOMORE YEAR.

- LATIN 4, 5, 6. *Three periods.*
Cicero: De Amicitia or De Natura Deorum, Horace: Satires, De Arte Poetica, Tacitus.
- GERMAN 2. *Three periods.*
Classics, Private Reading.
(Or German 1).
- FRENCH 1. *Three periods.*
Grammar, Composition, Translation, Modern Prose, Private Reading.
(Or French A).
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

JUNIOR YEAR.

- GERMAN 4. *Three periods.*
Epochs of German Literature; Collateral Reading.
(Or German 2).
- FRENCH 2. *Three periods.*
Classics, Private Reading.
(Or French 1).
- ENGLISH 7-11. *Four periods.*
Nineteenth Century Prose, Nineteenth Century Novel, The Short Story, Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES of CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- ELECTIVES to complete fifteen units.

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- MODERN LANGUAGES. *Six periods.*
Advanced Courses.
- COMPOSITION and SPEAKING *throughout the four years.*
- ELECTIVES to complete fifteen units.

* Students offering Greek for admission will take German A, elementary course.

Group III. Latin and Chemistry or Physics

FRESHMAN YEAR.

- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

SOPHOMORE YEAR.

- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- GERMAN 2. *Three periods.*
Classics, Private Reading.
Or
- FRENCH A. *Three periods.*
Grammar, Composition, Translation.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including necessary class exercises.*
Qualitative Analysis.
- PHYSICS 1, 2. *Three lectures and three laboratory hours. Four units.*
General Physics.

JUNIOR YEAR.

- Section in Chemistry.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- GERMAN 3. *Three periods.*
Scientific Reading.
- EVIDENCES of CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including necessary class exercises.*
Quantitative Analysis.
- PHYSICS 3, 4. *Three lectures and three laboratory hours. Four units.*
General Physics.
- ELECTIVES to complete *fifteen units.*
- Section in Physics.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- GERMAN 3. *Three periods.*
Scientific Reading.
- EVIDENCES of CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including necessary class exercises.*
Quantitative Analysis.
Or
- MATHEMATICS 5. *Three periods.*
Differential and Integral Calculus.
- PHYSICS to aggregate *four or six units.*

SENIOR YEAR.

- Section in Chemistry.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- CHEMISTRY 4. *Three lectures and laboratory work. Four units.*
Organic Chemistry. Also at least *three units* in Analytical Chemistry.
- ELECTIVES to complete *fifteen units.*
- COMPOSITION and SPEAKING *throughout the four years.*
- Section in Physics.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- PHYSICS. *Six or more units.*
- ELECTIVES to complete *fifteen units.*

Group IV. Modern Languages and Chemistry or Physics

FRESHMAN YEAR.

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- *FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

SOPHOMORE YEAR.

- GERMAN 2. *Three periods.*
Classics, Private Reading.
(Or German 1).
- Or
- FRENCH 2. *Three periods.*
Classics, Private Reading.
(Or French 1).
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including the necessary class work.*
Qualitative Analysis.
- PHYSICS 1, 2. *Three lectures and laboratory work. Four or five units.*
General Physics.

JUNIOR YEAR.

- Section in Chemistry.
- GERMAN. *Three periods.*
Scientific Reading.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including the necessary class work.*
Quantitative Analysis.
- PHYSICS 3, 4. *Three lectures and three laboratory hours Four units.*
General Physics.
- ELECTIVES to complete fifteen units.
- Section in Physics.
- GERMAN 3. *Three periods.*
Scientific Reading.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- CHEMISTRY 3. *Nine laboratory hours including the necessary class work.*
Quantitative Analysis.
- Or
- MATHEMATICS 5. *Three periods.*
Differential and Integral Calculus.
- PHYSICS. To aggregate four or six units.

SENIOR YEAR.

- Section in Chemistry.
- GERMAN. *Three periods.*
Advanced courses.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- CHEMISTRY 4. *Three lectures and laboratory work. Four units.*
Organic Chemistry. Also at least three units in Analytical Chemistry.
- ELECTIVES to complete fifteen units.
- COMPOSITION and SPEAKING throughout the four years.
- Section in Physics.
- GERMAN. *Three periods.*
Advanced courses.
- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- PHYSICS. *Six or more units.*
- ELECTIVES to complete fifteen units.

* Students offering Latin for admission will take the French elementary course.

Group V. Biology, Chemistry and Physics

FRESHMAN YEAR.

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- *FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.
- Or
- LATIN 1, 2, 3. *Three periods.*
Livy, Horace: Odes, Cicero: De Senectute.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 1, 2. *Three periods..*
Solid Geometry, Plane and Spherical Trigonometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.

SOPHOMORE YEAR.

- GERMAN 2. *Three periods.*
Classics, Private Reading.
- Or
- FRENCH 2. *Three periods.*
Classics, Private Reading.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.
- PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.
- CHEMISTRY 2. *Nine laboratory hours including class work.*
Qualitative Analysis.
- PHYSICS 1, 2. *Three lectures and laboratory work. Four units.*
General Physics.

JUNIOR YEAR.

- GERMAN 3. *Three periods.*
Scientific Reading.
- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 3, 4. *Two periods, second semester.*
Ethics.
- BIOLOGY 1, 2, 3. *Three lectures and six laboratory hours.*
General Biology, Zoology.
- CHEMISTRY 3. *Nine laboratory hours including class work.*
Quantitative Analysis.
- PHYSICS 3, 4. *Three lectures and three laboratory hours. Four units.*
General Physics.

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- BIOLOGY 4, 5, 6, 7. *Three periods.*
Human Anatomy and Physiology, Sanitation and Bacteriology, Histology and Embryology.
- COMPOSITION and SPEAKING *throughout the four years.*
- CHEMISTRY 4. *Three lectures and laboratory work. Four units.*
Organic Chemistry.
- ELECTIVES to complete *fifteen units.*

* Students offering Latin for admission will take the French elementary course.

Group VI. Commerce and Finance

FRESHMAN YEAR.

GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.

FRENCH 1. *Three periods.*
Grammar, Composition, Dictation, Modern Prose, Private Reading.

ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.

MATHEMATICS 1, 2. *Three periods.*
Solid Geometry, Plane and Spherical Trigonometry.

HISTORY 1. *Two periods.*
Political History of Modern Europe.

ENGLISH BIBLE 1. *One period.*
General Introduction.

One { **BIOLOGY 1, 2, 3.**
General Biology, Zoology.

{ **CHEMISTRY 1.**
General Chemistry.

{ **PHYSICS A, or 1 and 2 as advised.** *Three to four units.*

SOPHOMORE YEAR.

GERMAN 2. *Three periods.*
Classics, Private Reading.

Or

FRENCH 2. *Three periods.*
Classics, Private Reading.

ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.

MATHEMATICS 3, 4. *Three periods.*
Advanced Algebra, Plane Analytic Geometry.

PHILOSOPHY 1, 2. *Two periods.*
Psychology, Introduction to Philosophy.

FINANCE. *Two periods.*
Theory of Accounts, Theory of Investments.

ELECTIVES to complete fifteen units.

JUNIOR YEAR.

GERMAN. *Three periods.*
Advanced Courses.

Or

FRENCH. *Three periods.*
Advanced Courses.

ENGLISH 7-11. *Four periods.*
Nineteenth Century Prose, Nineteenth Century Novel, The Short Story, Shakespeare, Milton, Nineteenth Century Poets.

EVIDENCES of CHRISTIANITY. *Two periods, first semester.*

PHILOSOPHY 5. *Two periods, second semester.*
Ethics.

POLITICAL SCIENCE 1. *Two periods.*
American Politics, American Government.

COMMERCE. *Two periods.*
Commercial Law, History of Commerce.

ELECTIVES to complete fifteen units

SENIOR YEAR.

POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.

PHILOSOPHY. *Four periods.*
Chosen from Courses 3-8.

COMPOSITION and SPEAKING throughout the four years.

HISTORY. *Three periods.*
From Courses 2-6.

BUSINESS. *Two periods.*
Statistics, Business Practice.

ASTRONOMY. *Two periods.*

GEOLOGY. *Two periods.*

Group VII. Civil Engineering

FRESHMAN YEAR.

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 2, 3, 4. *Four periods.*
Spherical Trigonometry, Advanced Algebra, Plane and Solid Analytical Geometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.
- PHYSICS 1, 2. *Three lectures and three laboratory hours.*
General Physics.
- C. E. 1. *One period.*
Mechanical Drawing.

SOPHOMORE YEAR.

- GERMAN 3. *Two periods.*
Scientific Reading.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 5. *Four periods.*
Differential and Integral Calculus.
- CHEMISTRY 2. *Nine laboratory hours, including the necessary class work.*
Qualitative Analysis.
- PHYSICS 3, 4. *Three lectures and three laboratory hours.*
General Physics.
- C. E. 2. *Two periods.*
Engineering Drawing.

Summer Work.

- C. E. 3. *Three weeks immediately preceding the beginning of Junior Year.*
Field Work in Surveying in connection with Course 4.

JUNIOR YEAR.

- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- PHYSICS 5. *Two lectures and three laboratory hours, first semester.*
Dynamics.
- MATHEMATICS 9. *Two periods, first semester.*
General Astronomy (abridged).
- GEOLOGY and MINERALOGY 3. *Two periods, first semester.*
Crystallography, Determinative Mineralogy.
- C. E. 4. *Two periods, first semester.*
Elementary Surveying, Office Work.
- C. E. 5. *Three periods.*
Mechanics, Statistics.
- C. E. 6. *Four periods, second semester.*
Railroads (A).
- C. E. 7. *One period, second semester.*
Cement Testing and Highways.
- C. E. 10. *Three periods, second semester.*
Hydraulics.
- C. E. 18. *One period.*
Seminary.

Summer Work.

- C. E. 8. *Three weeks immediately preceding the beginning of Senior Year.*
Field Work in Surveying in connection with Courses 9 and 16.

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- GEOLOGY 1. *Two periods, first semester.*
Structural and Dynamical Geology.
- C. E. 9. *Two periods, first semester.*
Advanced Surveying Office Work.
- C. E. 11. *Three periods.*
Structural Design.
- C. E. 12. *Two periods, second semester.*
Structural Drafting.
- C. E. 13. *Two periods, first semester.*
Masonry.
- C. E. 16. *Two periods, second semester.*
Railroads, (B).
- C. E. 17. *One period, second semester.*
Contracts and Specifications.
- C. E. 18. *One period.*
Seminary.
- THESIS. *One unit.*
- ELECTIVE. *Four units.*

Group VIII. Municipal Engineering

FRESHMAN YEAR.

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 2, 3, 4. *Four periods.*
Spherical Trigonometry, Advanced Algebra, Plane and Solid Analytical Geometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.
- PHYSICS 1, 2. *Three lectures and three laboratory hours.*
General Physics.
- C. E. 1. *One period.*
Mechanical Drawing.

SOPHOMORE YEAR.

- GERMAN 3. *Two periods.*
Scientific Reading.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 5. *Four periods.*
Differential and Integral Calculus.
- CHEMISTRY 2. *Nine laboratory hours, including the necessary class work.*
Qualitative Analysis.
- PHYSICS 3, 4. *Three lectures and three laboratory hours.*
General Physics.
- C. E. 2. *Two periods.*
Engineering Drawing.

Summer Work.

- C. E. 3. *Three weeks immediately preceding the beginning of Junior Year.*
Field Work in Surveying in connection with Course 4.

JUNIOR YEAR.

- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets
- EVIDENCES OF CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- PHYSICS 5. *Two lectures and three laboratory hours, first semester.*
Dynamics.
- MATHEMATICS 9. *Two periods, first semester.*
General Astronomy (abridged).
- GEOLOGY and MINERALOGY 3. *Two periods, first semester.*
Crystallography, Determinative Mineralogy.
- C. E. 4. *Two periods, first semester.*
Elementary Surveying, Office Work.
- C. E. 5. *Three periods.*
Mechanics, Statics.
- C. E. 6. *Four periods, second semester.*
Railroads (A).
- C. E. 7. *One period, second semester.*
Cement Testing and Highways.
- C. E. 10. *Three periods, second semester.*
Hydraulics.
- C. E. 18. *One period.*
Seminary.

Summer Work.

- C. E. 8. *Three weeks immediately preceding the beginning of Senior Year.*
Field Work in Surveying in connection with Courses 9 and 16.

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- GEOLOGY 1. *Two periods, first semester.*
Structural and Dynamical Geology.
- CHEMISTRY 5. *Two periods, first semester.*
Water Analysis.
- BIOLOGY 7. *Two Periods, second semester.*
Sanitation and Bacteriology.
- C. E. 9. *Two periods, first semester.*
Advanced Surveying, Office Work.
- C. E. 11. *Three periods.*
Structural Design.
- C. E. 13. *Two periods, first semester.*
Masonry.
- C. E. 14. *Two periods, second semester.*
Sewerage.
- C. E. 15. *Two periods, first semester.*
Water Supply Engineering.
- C. E. 17. *One period, second semester.*
Contracts and Specifications.
- C. E. 18. *One period.*
Seminary.
- THESIS. *One unit.*
- ELECTIVE. *Two units.*

Group IX. Mechanical Engineering

FRESHMAN YEAR.

- GERMAN 1. *Three periods.*
Syntax, Composition, Conversation, Modern Prose, Private Reading.
- ENGLISH 1, 2, 3. *Two periods.*
Rhetoric, History of American Literature.
- MATHEMATICS 2, 3, 4. *Four periods.*
Spherical Trigonometry, Advanced Algebra, Plane and Solid Analytical Geometry.
- HISTORY 1. *Two periods.*
Political History of Modern Europe.
- ENGLISH BIBLE 1. *One period.*
General Introduction.
- CHEMISTRY 1. *Three lectures and six laboratory hours.*
General Chemistry.
- PHYSICS 1, 2. *Three lectures and three laboratory hours.*
General Physics.
- C. E. 1. *One period.*
Mechanical Drawing.

SOPHOMORE YEAR.

- GERMAN 3. *Two periods.*
Scientific Reading.
- ENGLISH 4, 5, 6. *Two periods.*
History of English Literature.
- MATHEMATICS 5. *Four periods.*
Differential and Integral Calculus.
- CHEMISTRY 2. *Six laboratory hours, including the necessary class work.*
Qualitative Analysis.
- PHYSICS 3, 4. *Three lectures and three laboratory hours.*
General Physics.
- C. E. 2. *Two periods.*
Engineering Drawing.
- C. E. 5. *Three periods.*
Mechanics, Statics.
- M. E. 1. *One period.*
Shopwork.

JUNIOR YEAR.

- ENGLISH 10, 11. *Two periods.*
Shakespeare, Milton, Nineteenth Century Poets.
- EVIDENCES OF CHRISTIANITY. *Two periods, first semester.*
- PHILOSOPHY 5. *Two periods, second semester.*
Ethics.
- PHYSICS 5. *Two lectures and three laboratory hours, first semester.*
Dynamics.
- C. E. 10. *Three periods, second semester.*
Hydraulics.
- M. E. 2. *One period.*
Shopwork.
- M. E. 3. *Four periods, first semester.*
Machine Design.
- M. E. 4. *Three periods, second semester.*
Mechanism.
- M. E. 5. *Three periods.*
Steam and Gas Engines.
- E. E. 1, 2. *Three lectures and three laboratory hours, second semester.*
- M. E. 9. *One period.*
Seminary.

SENIOR YEAR.

- POLITICAL SCIENCE 2. *Three periods.*
Economics, International Law.
- C. E. 11. *Three periods.*
Structural Design.
- M. E. 6. *Two periods, first semester.*
Strength of Materials Laboratory.
- M. E. 7. *Five periods.*
Power Plant Engineering and Management.
- M. E. 8. *Two periods.*
Machine Design.
- M. E. 9. *One period.*
Seminary.
- THESIS. *One unit.*
- ELECTIVE. *Two units.*

Group X. Electrical Engineering.

FRESHMAN YEAR.

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| <p>GERMAN 1. <i>Three periods.</i>
Syntax, Composition, Conversation, Modern Prose, Private Reading.</p> <p>ENGLISH 1, 2, 3. <i>Two periods.</i>
Rhetoric, History of American Literature.</p> <p>MATHEMATICS 2, 3, 4. <i>Four periods.</i>
Spherical Trigonometry, Advanced Algebra, Plane and Solid Analytical Geometry.</p> | <p>HISTORY 1. <i>Two periods.</i>
Political History of Modern Europe.</p> <p>ENGLISH BIBLE 1. <i>One period.</i>
General Introduction.</p> <p>CHEMISTRY 1. <i>Three lectures and six laboratory hours.</i>
General Chemistry.</p> <p>PHYSICS 1, 2. <i>Three lectures and three laboratory hours.</i>
General Physics.</p> <p>C. E. 1. <i>One period.</i>
Mechanical Drawing.</p> |
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SOPHOMORE YEAR.

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| <p>GERMAN 3. <i>Two periods.</i>
Scientific Reading.</p> <p>ENGLISH 4, 5, 6. <i>Two periods.</i>
History of English Literature.</p> <p>MATHEMATICS 5. <i>Four periods.</i>
Differential and Integral Calculus.</p> <p>CHEMISTRY 2. <i>Six laboratory hours including the necessary class work.</i>
Qualitative Analysis.</p> | <p>PHYSICS 3, 4. <i>Three lectures and three laboratory hours.</i>
General Physics.</p> <p>C. E. 2. <i>Two periods.</i>
Engineering Drawing.</p> <p>C. E. 5. <i>Three periods.</i>
Mechanics, Statics.</p> <p>M. E. 1. <i>One period.</i>
Shopwork.</p> |
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JUNIOR YEAR.

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| <p>ENGLISH 10, 11. <i>Two periods.</i>
Shakespeare, Milton, Nineteenth Century Poets.</p> <p>EVIDENCES OF CHRISTIANITY. <i>Two periods, first semester.</i></p> <p>PHILOSOPHY 5. <i>Two periods, second semester.</i>
Ethics.</p> <p>MATHEMATICS 6. <i>Two periods.</i>
Differential Equations.</p> <p>C. E. 10. <i>Three periods, second semester.</i>
Hydraulics.</p> <p>PHYSICS 5. <i>Two lectures and three laboratory hours, first semester.</i>
Dynamics.</p> | <p>PHYSICS 6. <i>Two lectures and six laboratory hours, first semester. Three laboratory hours, second semester.</i>
Electrical Measurements.</p> <p>E. E. 1, 2. <i>Three lectures and nine laboratory hours, second semester.</i>
Dynamics and Motors.</p> <p>M. E. 2. <i>One period.</i>
Shopwork.</p> <p>M. E. 3. <i>Two periods, first semester.</i>
Machine Design.</p> <p>E. E. 8. <i>One period.</i>
Seminary.</p> |
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SENIOR YEAR.

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| <p>POLITICAL SCIENCE 2. <i>Three periods.</i>
Economics, International Law.</p> <p>M. E. 5. <i>Three periods, first semester.</i>
Steam and Gas Engines (abridged).</p> <p>M. E. 6. <i>Two periods, first semester.</i>
Strength of Materials Laboratory.</p> <p>E. E. 3. <i>One period.</i>
Dynamo and Motor Design.</p> <p>E. E. 4. <i>Four periods, second semester.</i>
Theory of Alternating Currents.</p> | <p>E. E. 5. <i>Two periods, first semester.</i>
Electric Lighting and Central Stations.</p> <p>E. E. 6. <i>Two periods, second semester.</i>
Electric Railways.</p> <p>E. E. 7. <i>Four periods.</i>
Electrical Engineering Laboratory.</p> <p>E. E. 8. <i>One period.</i>
Seminary.</p> <p>THESIS. <i>One unit.</i></p> <p>ELECTIVE. <i>Two units.</i></p> |
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COURSES OF INSTRUCTION

English

Professor HIMES and Mr. MOSER.

1. Rhetoric. A study of the subject with the aid of a text-book. The aim of the course is (1) to acquaint the student with the principles of good writing, and (2) to lead to an appreciation of good literature. A course in composition is conducted in connection with this subject.

Freshman course. Two periods, first semester.

2. History of American Literature. A study of the subject with the aid of a text-book. Quizzes, collateral reading, papers.

Freshman course. Two periods, second semester.

3. Composition. Weekly themes on assigned subjects corrected and commented on by the instructor, in personal consultation with the student.

Freshman course throughout the year.

4. History of English Literature. A text-book forms the basis of study. Quizzes, collateral reading, papers.

Sophomore course. Two periods throughout the year.

5. Composition. Advanced work in description and narration. Themes corrected and commented on in personal consultation with the student.

Sophomore course throughout the year.

6. Elocution. A course of lectures on the subject. Vocal exercises, declamations, reading. Practice in the preparation and delivery of speeches.

Sophomore course throughout the year.

7. Nineteenth Century Prose. A study of the development of modern prose. Selected readings from Coleridge, Lamb, De Quincey, Macaulay, Carlyle, Ruskin, Arnold and others.

Junior course. Two periods, first third of year.

8. Nineteenth Century Novel. A study of the development and structure of the novel. Lectures, collateral reading, papers. Junior course. Two periods, second third of year.

9. The Short Story. A study of its principles and structure. Selections from Hawthorne, Poe, Stevenson, Kipling, Harte, Twain, O. Henry, Ruth Stuart, Aldrich, Wister and others. Junior course. Two periods, last third of year.

1-9 Mr. MOSER.

10. Course in English Poetry.

A Shakespeare—Dramatic Art. Six plays are analyzed and interpreted, the most suggestive and important passages being read in the class. The writing of dialogue is practiced.

B Milton—Epic Art. Five books of the *Paradise Lost* are read; the views of commentators are examined; Milton's conception of the material and spiritual universe is elucidated; portions of the poem are memorized.

C Nineteenth Century Poets. Selected poems of Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Matthew Arnold, D. G. Rossetti and Swinburne are analyzed for thought and structure.

Junior course. Two periods throughout the year.

11. Writing and Speaking. Required of all students. The rendering of declamations and orations and the preparation of essays and debates are continued throughout the Junior and Senior years. Subjects assigned are suggested either by miscellaneous matters of interest or by topics found in the text-books studied. To secure care and accuracy on the part of the student the written work is read and criticised privately by the instructor.

10 and 11 Professor HIMES.

German

Professors GRIMM and SCHAPPELLE.

A An elementary course. For students with no preliminary training in German, but with several years' work in other lan-

guages. It includes the study of grammar, practice in writing and speaking German, translation of prose and poetry, and the memorizing of simple poems.

Three periods throughout the year.

B A course for beginners similar to German A, but especially designed for students in the Greek-Latin Group. For such students it completes the requirements in German for the degree of Bachelor of Arts. Those, however, who have the *ministry* in view, are advised to take also German 1 or German 2.

Three periods throughout the year.

1. For students who have presented German for admission; also for those who have completed German A. It may, likewise, be taken by students who have passed in German B. This course comprises a brief review of grammar, a careful study of syntax combined with oral and written prose composition, exercises in conversation, and readings, both with previous preparation and at sight, from standard writers of modern German prose. Some time is also given to the reciting of ballads and lyrics. Outside reading may be assigned.

Three periods throughout the year.

2. For students who have passed in German, also open to those students who have attained a grade of not less than C in German B. This course is devoted to the study of selections from classical authors, chiefly from Lessing, Goethe, and Schiller, with some attention to the laws and forms of poetics. It is partly conducted in German. Private reading is required.

Three periods throughout the year.

3. For candidates for the degree of Bachelor of Science, also open to others who have completed German 1. This course consists in the cursory reading in class of German essays of a general scientific character, together with private assignments on some special subject in Science or other college studies.

Two or three periods throughout the year.

4. For those students who have chosen German as their principal subject in the Modern Language-Latin Group, open also to others who satisfy the instructor of their fitness to take it. The work in this course, conducted as far as practicable in German, consists in lectures on the main epochs of the German language and literature, with collateral reading from representative poets and masters of German style.

A From the dawn of the modern period to the present time, with some attention to German literature in America.

Two or three periods, first semester.

B From the beginning of German literature to the dawn of the modern period.

Two or three periods, second semester.

5. An elective course on German literature in the period of the Reformation, with special reference to Luther and the church hymns. Open to advanced students in German.

Hours arranged to suit the convenience of instructor and students.

6. An elective course devoted to the discussion of grammatical topics, advanced composition, and the critical reading of selected texts. Special attention is given to the needs of those students who wish to teach German in the public or secondary schools.

Hours arranged to suit the convenience of instructor and students.

7. A course aiming to give practice in German correspondence, and to widen the student's vocabulary of modern German by means of extracts from newspapers, periodicals, and other suitable reading. It also presents to the student a general view of German land and people, and acquaints him with the history of the Germans in our country. Attention is given to the needs of those looking forward to a business career. As far as practicable, the course will be conducted in German.

Hours to be arranged.

Deutscher Verein. Opportunity for more extended German conversation and discussions referring to German life, literature, and culture is offered to advanced students in a voluntary German Club, meeting fortnightly from November to April inclusive.

Greek

Professor BILLHEIMER.

Preparatory Greek.

A First Year Greek. An elementary course for students who have not presented Greek for admission. The course will cover White's First Greek Book and Book I of Xenophon's Anabasis.

Four periods throughout the year.

B Second Year Greek. A course for those who have taken Beginners' Greek. Books II-IV of Xenophon's Anabasis and Books I-III of Homer's Iliad will be read. Exercises in Greek prose composition will be given in connection with the reading of the text.

Three periods throughout the year. [To be given 1913-14.]

1. Xenophon. Selections from Books I-IV of the Hellenica, with a thorough review of forms and the essentials of grammar.

Freshman course. Three periods, first semester.

2. Lysias. Selected Orations, special attention being given to syntax.

Freshman course. Three periods, second semester.

3. Plato. Apology and Crito. Interpretation of the text and advanced work in syntax.

Sophomore course. Three periods, first semester.

4. Homer. Books IX-XIII of the Odyssey. Attention will be given to the metre, to Ionic forms, and to the special features of syntax.

Sophomore course. Three periods, second semester.

5. Euripides. This course will give a practical introduction to Greek metrics, and will include the history of Greek Tragedy and of the Greek Theatre.

Junior course. Two periods, first semester. [To be given 1913-14.]

6. Aristophanes with the history of Greek Comedy. Open only to students who have taken course 5.

Junior course. Two periods, second semester. [To be given 1913-14.]

7. Euripides in English Translation. In addition to the reading of the plays this course will involve a study of their subjects, plots and divisions, and a scenic analysis of a number of plays by each member of the class. Open to all students.

Junior course. Two periods, second semester.

8. Demosthenes. De Corona. The course includes a complete review of the public life of Demosthenes and of the relations between Athens and Philip of Macedon.

Senior course. Two periods, first semester.

9. Aristotle. The Athenian Constitution. In addition to the interpretation of the text topics in Athenian constitutional history and political institutions will be assigned for report.

Senior course. Two periods, second semester.

To provide for applicants for Group I, who cannot offer the entrance requirements in Greek, but can offer three entrance units in Modern Languages, provision is made to begin Greek in College. Such students have Preparatory Greek Courses A and B during Freshman and Sophomore years, and receive College credit. During Junior and Senior years they have Greek 1, 2, 3, 4.

A student who is a regular member of Group II will be allowed to elect courses in Greek, including Courses A and B, after the Sophomore year and will be given College credit for the same.

Latin

Professor BIKLE.

Allen and Greenough's Latin Grammar and Harper's Latin Lexicon are recommended. Of the smaller dictionaries the student is advised to get the Elementary Latin Dictionary by Charlton T. Lewis.

1. Livy. Selections from Book I, and the Hannibalian War in Books XXI and XXII. Special attention is given to syntax and Livy's peculiarities of style. Collateral reading on the Punic Wars, and lectures on Rome and Carthage.

Freshman course. Three periods during the first semester to the Christmas vacation.

2. Horace. Selections from the Odes, including a critical interpretation with special attention to the Horatian meters and the mythological and historical allusions of the text. Berens' Hand-Book of Mythology is recommended. Collateral reading on Horace as a lyric poet.

Freshman course. Three periods from the beginning of January to the last of March.

3. Cicero. The *De Senectute* will be read with thorough drill in syntax, special attention being given to the mode uses of the Latin Subjunctive.

Freshman course. Three periods from the last of March to the close of the academic year.

N. B. During part of the Freshman year there will be, in connection with the reading of the Latin text, drill in Latin Prose Composition, embracing a rapid review of Latin syntax, with oral and written practice in the principles involved.

4. Cicero. The *De Amicitia* or the *De Natura Deorum*. Rigid drill in syntax will be continued with training in reading the Latin text with expression. Collateral reading of the life

and times of Cicero. Informal lectures on Cicero's philosophical views .

Sophomore course. Three periods a week during the first semester to the Christmas vacation.

5. Horace. Satires and the *De Arte Poetica*. After the study of some selected satires the *Ars Poetica* is read, and each student is required to prepare a written analysis of the poem. A review of the dactylic hexameter versification.

Sophomore course. Three periods from the beginning of January to the last of March.

6. Tacitus. The *Agricola* or selections from the *Annals*. Along with the translation of the text there will be a study of the times in relation to the literature of this period, and special attention will be given to the characteristics of the Silver Age Latinity.

Sophomore course. Three periods from the last of March to the close of the year.

7. Quintilian. Tenth Book of the *Institutes*. The student is required to give a close study of the terms used by Quintilian in literary criticism, and to make a summary and classification of the Greek and Roman authors.

Junior course. Two periods during the first semester to the Christmas vacation.

8. Juvenal. Selected Satires. With full explanations of the text, and collateral reading on the private and social life of the Romans of the Empire. Followed by a short course in Roman Antiquities.

Junior course. Two periods from the beginning of January to the close of the college year.

9. Terence or Plautus. The *Andria* of Terence or the *Captivi* of Plautus. The *Dramatis Personae* are assigned to special members of the class and the parts rendered both in Latin and English. Informal lectures on the Roman theatre;

also on the origin and development of the Latin drama and the value of the Roman comedy to the philologist and the student of Roman life.

Senior course. Two periods for twelve weeks.

10. Latin Literature. A course of lectures embracing a general survey of the whole field, and aiming to trace the rise and subsequent development of the various kinds of prose and verse among the Romans, with special attention to the writers of the Golden and Silver Ages. Or,

Roman History. A course of lectures covering the period from 150 B. C. to 100 A. D.

Senior course. Two periods for ten weeks.

11. Roman Law. Morey's Outlines as the chief text book. After a careful study of the historical development and content of Roman Law, a paper is required from each member of the class on a subject assigned for special investigation. Or,

Roman Constitutional History. The subject is pursued with the aid of a text-book.

Senior course. Two periods for ten weeks.

ROMANCE LANGUAGES

French

Professor SCHAPPELLE.

A An elementary course for students who have not presented French for admission. For students in the Classical department, or in Science departments requiring Latin, it satisfies the requirements in French for the baccalaureate degree.* This course includes careful drill in pronunciation, the study of the essentials of grammar with constant exercises in turning English into French, and the translation of easy French texts.

Three periods throughout the year.

*Students who have the ministry in view may substitute German 7 or 11.

1. An intermediate course for students who have presented French for admission, also open to those who have passed in French A. This course comprises the study of grammatical principles, composition, exercises in pronunciation, dictation, and readings from standard writers of modern prose. Outside reading may be assigned.

Three periods throughout the year.

2. Advanced course. Open to all students who have completed with credit French 1, or who have done equivalent work. This course is devoted to the study of French classics, with special reference to Corneille, Racine, Moliere, Voltaire. Some time is also given, during the second semester, to more difficult representative prose. Private reading is required.

Two or three periods throughout the year.

3. A course in advanced composition and conversation, elective only for such students who satisfy the instructor that they are qualified to take it. This course includes practice in the writing of French letters.

One period throughout the year.

Italian

PROFESSOR SCHAPPELLE.

1. Elementary course. Open to those students who have completed the requirements in French. This course aims to give the student a thorough training in the rudiments of the Italian language and to enable him to read ordinary Italian with ease and accuracy.

Three periods throughout the year.

Spanish

PROFESSOR SCHAPPELLE.

1. Elementary course. Open to those students who have completed the requirements in French. This course is intended

for those who desire a knowledge of the essentials of the Spanish language, either for literary work or for a business career.

Three periods throughout the year.

Comparative Philology

Professor GRIMM.

1. A course open to advanced students, dealing with the principles of Linguistic Science.

One period throughout the year.

2. Beginners' course in Sanskrit. Open to advanced students. This course includes the study of grammar and the interpretation of an easy text from Lanman's Reader.

Two periods throughout the year.

Biblical Department

Professor WENTZ.

1. General Introduction to the English Bible. This course aims to bring to the student a sympathetic knowledge of the life and thought of that nation which has most vitally influenced our own civilization. To do this reference must be made to Biblical history and geography. But the chief object is to acquaint the student with the Bible as the record of the advance and culmination of the highest religious consciousness of the human race. The distinctive forms of thought contained in the Bible from the beginnings of Hebrew history down to the close of the Apostolic Age are studied in succession. The original message of the writers is sought out and translated into the logic of the Occidental mind. This course is of necessity only introductory, but it is intended to show that a knowledge of Biblical thought and literature is an essential and integral part of a liberal education.

Freshman course. One period throughout the year.

2. Literary Study of the Bible. The Bible is studied as a body of English literature and the sacred writings are subjected

to a morphological analysis. The study of the literary forms is entirely independent of the historical investigation. The distinctive types of literary structure in the Bible as presented by Moulton in his *Modern Reader's Bible* are studied in detail and their permanent literary value is noted. The underlying principle of this study is that a thorough understanding of the outer literary form is an essential guide to an appreciation of the inner matter and spirit.

Sophomore course. One period throughout the year.

3. Life of Christ. A Survey is given of the political, religious, and social conditions in the time of Christ as the background necessary to an understanding of His life and teachings. The events of His life are then studied from the four-fold gospel itself, special attention being given to chronology and harmony. An outline of His teachings, ethical as well as religious, is ad-duced. The aim is not apologetic but purely historical.

Junior course. One period throughout the year.

4. New Testament Study. This course embraces a study of New Testament Greek. Some book of the New Testament chosen by the class is read in the original. The study of Biblical Greek has its approach from the classic side but special attention is given to the distinctive peculiarities of Hellenistic Greek as a later and less artificial dialect of the elaborate and polished language of orators and philosophers. The student is familiarized with the vocabulary of the New Testament. Etymology and syntax are systematically studied.

This course is open to all who have had two years of Greek.

One period throughout the year.

Christian Evidences

Professor WENTZ.

A defensive statement of the Christian religion as the divinely revealed religion of redemption. From a consideration of the historical foundations the essence of Christianity is deduced in

brief and thus the method of defense is determined. Evidences external and internal are considered. The miraculous element in the New Testament is vindicated. Special reference is made to those elements in our present intellectual environment which tend to make faith difficult. In conclusion, Christianity is compared with the ethnic religions, and the absolute character and the permanent significance of the Christian verities are maintained.

Junior course. Two periods, first semester.

Commerce and Finance

PROFESSOR SANDERS and MR. MCPHERSON

1. History of Commerce. A history of the general development of commerce and finance in the United States, including the history of banking, the growth of corporate industry and manufacturing.

Two periods, first semester.

2. Commercial Law. The legal principles underlying and governing business transactions of every variety; contracts, partnerships, corporations, etc., from the viewpoint of organization, rights and liabilities.

Two periods, second semester.

3. Statistics. The elements of statistical method such as find their practical application in the problems of price, wages, labor, and social data in general, as these affect the economic world.

4. Finance. Theory of accounts, banking methods, reserve funds, dividends, taxation and distribution of wealth.

5. Investments. This course aims to enable the student to analyze securities so as to judge intelligently of their value; such as stocks, bonds, insurance, etc.

Courses 3, 4 and 5 cover two periods, extending through the year. Course 4 deals with business methods, Course 5 with business instruments, and Course 3 with the social and economic

data which cause fluctuations in stocks, bonds, etc., the general aim being to give a comprehensive view of the factors entering into practical finance.

History

Professor WENTZ.

1. Political History of Modern Europe. The essential landmarks of ancient and mediaeval history are recalled and fixed definitely in mind and a brief introductory survey is given of the civilization of Europe at the end of the Middle Ages. Then beginning with the Protestant Reformation the course of the historical development of modern Europe is traced by a thorough study of the Modern Period in connection with Schwill's Political History of Modern Europe, the aim being to develop the general background of historical knowledge and to introduce the student to methods of college historical study.

Freshman course. Two periods throughout the year.

2. Advanced Course in English History. After a rapid introductory survey of the Anglo-Saxon period, the course begins with the Norman conquest and deals with the details of historical development down to the present time. Stress is laid upon such phases of English history as will specially aid the student to understand the modern political development in continental Europe and in the United States. The materials of the study include text-books, lectures, secondary authorities, and sources, with frequent discussions of assigned readings.

Three periods, first third of year. Given in alternate years with Course 3.

Prerequisite, 1.

3. Advanced Course in United States History. This course comprises a study in the epochs of our national history. An effort is made to discern the social and economic forces that have been operative in the development of the republic and thus lead to an understanding of the national problems of the present. Much attention is given also to American biography, and bio-

graphical essays, sketches of epochal events, and frequent reports on assigned topics are required.

Three periods, first third of year. Given in alternate years with Course 2. Omitted 1911-12.

Prerequisite, 1.

4. The History of the German Empire and its Present Organization. This study begins with the changes in the political map of Europe after the Congress of Vienna and traces the gradual nationalization and unification of Germany. It concludes with a detailed study of the present organization of the Empire and an examination of the political, religious, and economic conditions of the present day. The characteristic phenomena are constantly culled from the sources.

Three periods, second third of year.

Prerequisite, 1.

5. Lectures on the History of Ancient and Mediaeval Civilization. This course presupposing a knowledge of the facts and events of history makes a study of the growth of historical ideas. The forces that have moved men and nations are sought out and the causes which have operated to direct the tendencies of peoples and to develop institutions are set forth. The unity and continuity of history are developed.

Three periods, last third of year. Given in alternate years with Course 6.

Prerequisite, 1.

6. Lectures on Modern and Contemporary Civilization. A continuation of Course 5, the aim here being to analyze the constitutive and abiding elements of our own civilization, to lead the student to a thorough understanding of the general trend of modern civilization and thus enable him to determine his relation to the world society of to-day.

Three periods, last third of year. Given in alternate years with Course 5. Omitted 1911-12.

Prerequisite, 1.

Philosophy

Professor SANDERS.

1. **Psychology.** A course in general psychology which aims to acquaint the student with the phenomena of mind, the methods of psychological investigation and the practical bearing of the various mental functions on the problems of ethics, pedagogy, etc.

Sophomore course. Two periods, first semester.

2. **Introduction to Philosophy.** The course in general psychology suggests the problems of philosophy. The course in Introduction aims to acquaint the student with the content of philosophy, the origin and development of the various problems, the aim and method of philosophy, the results which have been attained, and its relation to the other departments of human thought.

Sophomore course. Two periods, second semester.

3. **Logic.** An introductory course in the laws of thought. The evolution of the concept, its development into judgment and inference, the systematic function of classification, the explanatory function of generalization, and the methodology of proof and investigation are studied with a view to securing a foundation for the theory of knowledge and effective scientific method.

Junior course. Two periods, first semester.

4. **Sociology.** A study of the nature of society and its problems. Starting with the psychological factors of sociation, the development of social institutions, the economic and cultural factors of social progress and the elimination of hindrances—evils—are taken up in turn with a view to an understanding of the methods of social improvement.

Juniors and Seniors. Two periods, first semester.

5. **Ethics.** A study of human conduct. The concept of personality and the idea of self-realization, as forming the background of moral judgment, are wrought into a system which ex-

plains the origin of the moral motives as well as their implication of God and immortality.

Junior course. Two periods, second semester.

6. History of Philosophy.

A Ancient and Mediaeval Period. This course traces the rise and progress of reflective thought as it appears among the Greeks and culminates in Scholasticism. Special stress is placed upon the Greek thinkers, with a view to acquiring an understanding of the spirit of philosophy.

Senior course. Three periods, first semester.

B Modern Period. This course covers the period from the renaissance to the present time. Special stress is placed upon the great systems. The student is required to read selections from the great thinkers and report on them, the constant aim being to cultivate the philosophising attitude, thus furnishing a basis for independent thought as well as an inspiration to do original thinking.

Senior course. Three periods, second semester.

7. Philosophy of Religion. A study of religion as a distinct factor in human development. The aim of the course is to show the nature of religion and to interpret the various forms in which it manifests itself.

Senior course. Two periods, first semester.

8. Theism. This is essentially a course in metaphysics. Beginning with the method of system building, the student is introduced to the meaning of a world-view, the factors which a comprehensive and consistent view must recognize, and the reasons for regarding Theism as the theory which best meets existing requirements.

Senior course. Two periods, second semester.

Prerequisite, 1, 2 and 3.

Education

Professor SANDERS.

1. History of Education. A study of the most important movements in the history of education, the factors and person-ages instrumental in bringing about the various steps in the long line of progress.

Two periods throughout the year.

Prerequisite, Philosophy 1 and 2.

2. Pedagogy. A study of the principles of the educative process, the growth of the mind and the laws governing its development.

Two periods throughout the year.

Prerequisite, Philosophy 1, 2 and 3.

3. School Organization and Method of Teaching. A study of the practical problems of organization and the application of principles.

Two periods throughout the year.

Prerequisite, Philosophy, 1, 2 and 3.

Courses 2 and 3 will be given in alternate years.

The State School Code requires of all teachers courses in Psychology, Logic, History of Education, Pedagogy and Ethics.

Political Science

Professor HIMES.

1. Science of Government.

A American Politics. The subject is pursued on the basis of Johnston's American Politics with comments and suggestions for collateral reading. An intelligent acquaintance with present political conditions is aimed at.

B American Government. The principles and structure of government are studied. National and State constitutions are consulted. The annual Presidential Message is discussed.

Senior course. Two periods throughout the year.

2. Economics and Law.

A Economics. The theories of the science are brought, wherever possible, to the test of the student's personal observation and the true nature of the science is thus impressed upon mind. Problems for investigation are assigned to the class with instructions to inquire into actual industrial and social conditions and operations.

B International Law. Lawrence's International Law is used, with occasional lectures on special topics.

Senior course. Three periods throughout the year.

Biology and Hygiene

Professor STAHLEY.

Courses 1 to 6 are given during the Junior and Senior years, and are required in Group V, Biology, Chemistry and Physics and are elective for the other groups and for partial course students in other years. The Junior work is a general culture course, and is calculated to give the student a general understanding of current biological questions. The Senior work is more medical in its cast, and in conjunction with the Junior work, provides an admirable preliminary preparation for the study of medicine. Students in Municipal Engineering are required to take Course 7.

The work is carried on by lectures, demonstrations, dissections, written descriptions and drawings, quizzes and frequent stated examinations. There are two well-lighted laboratories, provided with all needed instruments and apparatus.

1. General Biology. This branch acquaints the student with microscopic technique and general laboratory methods, whilst he studies selected types of plants and animals, taken from the lower forms of life. The purpose is to ascertain fundamental facts of structure and life processes, with the significant relationships in the two great kingdoms of organic nature.

First year. Three periods for thirteen weeks.

2. Vertebrate Zoology. Fundamental vertebrate features of structure and function are carefully considered, whilst dissecting type forms, beginning with the lowest vertebrates known, and proceeding through the various classes, culminating with the Mammals; the latter class claiming special attention. Questions relating to comparative morphology and physiology of vertebrate animals are freely discussed.

First year. Three periods for fifteen weeks.

3. Invertebrate Zoology. Representative types in this great group of animals are dissected. The basal plans in organization, with the varying modifications in form and function, are made subjects of practical study.

First year. Three periods for eight weeks.

4. Human Anatomy and Physiology. Special attention is given to osteology, joints, ligaments and muscles. Tramond's preparations, consisting of real bony joints, with accurately placed artificial ligaments, and Azou's dissectible manikin, provide ample facilities for this part of the work. In this, as in all the branches of the course, physiological processes are constantly discussed.

Second year. Three periods for eighteen weeks.

5. Mammalian Histology. With the aid of prepared microscopic slides, the pupil studies the minute anatomy of the different tissues of the body. He also learns practically how to fix, harden, imbed, section, stain and mount the important tissues.

Second year. Three periods for twelve weeks.

6. Embryology. The principles of the maturation and fertilization of the germ elements are considered. The development of the chick is studied. Entire mounts are made, as well as mounts of serial sections of the incubating egg, from the first hour of incubation to the fifth day, when the organs are practically all formed.

Second year. Three periods a week for six weeks.

7. Sanitation and Bacteriology. This is a course in municipal sanitation. The lecture part of the work is comprised in Course No. 8, second semester. The bacteriology of water analysis is pursued in a well equipped laboratory.

Second year. Laboratory, three periods for first six weeks. second semester. Lectures, one period for eighteen weeks.

8. Personal and Public Hygiene. During the first semester the questions of the waste and conservation of individual vitality in their application to an efficient citizenship, are discussed. During the second semester consideration is given to those essential principles of public hygiene which are necessary in protecting the health of communities.

Lectures. One period weekly throughout the Senior year.

9. Physical Culture. This end is sought under medical guidance in the Gymnasium during the winter months. A physical examination of each student is made when he enters college and such kinds of gymnastic exercises are prescribed as seem desirable. The purpose is to encourage the promotion of health and physical vigor as necessary for successful mental application. Since much harm is often done in injudicious physical exercise, special effort is made to advise those who are suffering from defective bodily conditions how they may be helped by hygienic methods and the selection of forms of exercise particularly suited to their case.

Chemistry

Professor BREIDENBAUGH, Mr. STOVER and Mr. DICKSON.

The courses in chemistry are not designed to prepare specialists in any department of the subject, but to give a general training in the science. The successful completion of these courses will prepare the student to enter on post-graduate or professional studies in any leading university, or qualify him for a more successful pursuit of any technical business, or fit him to teach chemistry in secondary schools.

The instructors are in daily attendance during the college

term from 8 to 12 and from 1 to 4, except on Saturday afternoons.

1. General Chemistry. No previous acquaintance with the subject is required. Those offering chemistry for admission will be allowed to substitute, as far as is best for the individual, from Course 2. The general principles and the fundamental laws of the science are included in the course which consists of lectures, readings from approved text-books such as Remsen's College Chemistry, Newell's Inorganic Chemistry for Colleges, and laboratory work of which careful record in note-books is required. There are daily quizzes and frequent examinations. The last several weeks of the course are devoted to a practical review and examination in the determination of a certain number of substances, based on the results of previous study.

Three lectures and six laboratory hours weekly for one year.

2. Qualitative Analysis. The student, following an outline prepared for the purpose, becomes acquainted with the general reactions of the elements of the several groups and from these data constructs the scheme of analysis which is applied in a number of determinations. There is constant supervision and personal conference over the work. Reference book: Fresenius' Qualitative Analysis.

Nine laboratory hours including class work weekly for one year.

Prerequisite, 1.

3. Quantitative Analysis. While such lectures as are desirable are given, this is essentially a personal laboratory course. An assigned minimum of work is required. Reference book: Fresenius' Quantitative Analysis.

Nine hours of laboratory work weekly for one year.

Prerequisite, 1 and 2.

4. Organic Chemistry. Lectures and preparations based on Remsen's Organic Chemistry occupy about one half the course, the remainder of the time is given to ultimate and proximate analysis of organic substances and of animal and plant products.

Three lectures and six laboratory hours weekly for one year, four units credit.

Prerequisite, 1 and 2.

5. Water and Sewage. Lectures, reading and laboratory work on the character of water supplies and sewage products and their purification.

Two periods for one semester as suits the class.

Prerequisite, 1, 2 and 3.

6. Cements. Reading and laboratory work on the nature of cements.

Two periods for one semester as suits.

Prerequisite, 1, 2 and 3.

7. Special Quantitative Methods. Students who are qualified, are offered courses in advanced and applied analysis—such as mineral and ore analysis, the examination of food stuffs, etc.

Such number of hours as may be arranged for during Senior year, or during Junior year by such students as have completed other work in the department.

Geology and Mineralogy

Professor BREIDENBAUGH.

1. Dynamical Geology. This course of lectures gives the student an acquaintance with the facts concerning inorganic geology with a discussion of the dynamical agencies which have been operative in bringing the earth to the condition in which we now find it.

Two periods, first semester.

2. Historical Geology. A comprehensive discussion of the principles of evolution with illustrations from historic geology closes the course.

Two periods, second semester.

The student is assigned readings from the text-books of Dana, Le Conte and Chamberlin and Salisbury and other authors.

Field work and the preparation of papers from personal ob-

servations give practical application to the work. Frequent examinations are held.

3. Mineralogy. Following a short course of practical work in Crystallography, there is a series of determinations of not less than one hundred minerals by their physical and blowpipe characteristics.

Two periods throughout the year.

Prerequisite, Chemistry 1.

Mathematics and Astronomy

Professor NIXON and Mr. TROXELL.

The courses in mathematics are arranged to give thorough mental discipline; to meet the needs of teachers; to fill the wants of students desiring later to do graduate work in the best universities; to prepare for engineering or other technical courses. The instruction includes full explanation of all difficult points, free use of blackboard by both instructor and pupil, daily drill and note-book work, checking of results, application of mathematics to practical problems of every day life.

1. Solid Geometry. The usual text demonstrations including the relations of planes and lines in space, the properties and mensuration of prisms, pyramids, cylinders and cones, the sphere and spherical triangle; geometric models. Wentworth and Smith's Solid Geometry.

Freshman course. Three periods one third of year.

2. Plane and Spherical Trigonometry. Fundamental definitions, properties and analytical theory of trigonometric functions, with the usual formulae; theory and principles of logarithms; applications to the solution of various practical problems. Granville's Plane and Spherical Trigonometry.

Freshman course. Three periods two thirds of year.

3. Advanced Algebra. Undetermined coefficients with applications to series and partial fractions; graphical method of

solving equations; determinants with applications to simple equations; the elements of the theory of equations; including the solution of numerical equations by Horner's method. Well's *Advanced Algebra*.

Sophomore course. Three periods one third of year.

4. *Plane Analytic Geometry or Elementary Analysis*. The equation and the plotting of the corresponding locus is discussed in general, after which the following topics are studied; line, circle, ellipse, hyperbola, parabola and other curves, their tangents, normals, lengths and areas. *Solid Analytical Geometry, Nicholas' Analytic Geometry; Granville's Elementary Analysis*.

Sophomore course. Three and four periods, two-thirds of year.

5. *Differential and Integral Calculus*. The latest and best methods of teaching the Calculus are used. This course prepares students for work in applied science, for more advanced courses in pure mathematics, and for engineering or other technical courses. Simple practical problems are given throughout that illustrate the theory and at the same time are of interest to the student. These problems do not presuppose an extended knowledge in any branch of science but are based on knowledge that all students in a first course in the calculus are supposed to have in common. *Granville's Differential and Integral Calculus*.

Junior course. Three and four periods throughout the year.

6. *Differential Equations*. This course is based on the Calculus of Junior year, and consists of recitations on methods of solution and geometrical interpretation of ordinary and partial differential equations. *Cohen's Differential Equations*.

7. *Solid Analytic Geometry*. This course is based upon the *Analytic Geometry of Sophomore year*, and includes various topics of *Analytic Geometry of three dimensions*. *C. Smith's Solid Geometry*.

8. *Theoretical Mechanics*. This course is based upon the

Calculus of Junior year, and includes the mathematical treatment of various topics in mechanics. Smith and Longley's Theoretical Mechanics.

6, 7 and 8, Senior courses. Three periods throughout the year.

9. General Astronomy. This course is designed to meet the needs of students interested in Astronomy. Practical work is included but the emphasis is laid upon the theory. The subject matter is the following: determination of time, latitude and longitude from observation with the transit; computing the time of sunrise, etc., and projecting a lunar eclipse; descriptive Astronomy covering the material contained in Young's General Astronomy.

Senior course. Two periods throughout the year.

Physics

Professor PARSONS, MR. KAPP and MR. HAVERSTICK.

A Elements of Physics. A course covering in an elementary way the general subject of Physics, largely descriptive, and requiring no previous knowledge of the subject. The instruction is given by lectures illustrated by experiment, recitations, problems and laboratory work. This course is designed for those who can devote no more than one year to Physics, and not for those who will pursue the subject further.

Three lectures and three laboratory hours per week throughout the year. 4 units credit. (In some cases the course may be elected without the laboratory work).

1. General Physics. Mechanics of solids and fluids, properties of matter and heat. The first part of a course in General Physics extending through two years required of all students in the Scientific and Engineering Groups, and forming the basis of the more specialized courses. The instruction is given by lectures illustrated by experiments, recitations, and problems assigned for work outside of the class. Kimball's College Physics (or some text of equal rank) is used supplemented by considerable additional material. No previous knowledge of

the subject is assumed, but a high school course is advantageous as preparation.

Three hours per week throughout the year. Three units credit.

2. General Laboratory Physics. A laboratory course in mechanics of solids and fluids, properties of matter and heat, designed to accompany Course 1. (Excepting in special cases the two courses must be taken together). In heat, some experiments on steam and other heat engines, and the heat of solution and chemical reactions, are included. It is desirable, though not required, that the student should have previously had an elementary laboratory course in Physics.

Three or six hours per week throughout the year. One or two units credit.

3. General Physics. Sound, electricity and magnetism and light. A continuation of Course 1, emphasizing particularly electricity and magnetism, and including the fundamentals of photography. Lectures, recitations and problems.

Three hours per week throughout the year. Three units credit.

Prerequisite, Physics 1 and Mathematics 3, 4.

4. Physical Measurements. Laboratory experiments in sound, electricity and magnetism and light. A continuation of Course 2 and designed to accompany Course 3. Some experiments in electrical measurements, diffraction and polarization of light, and photography, are included.

Three to nine hours per week throughout the year. One to three units credit.

5. Mechanics, 5A. A lecture course based on the calculus, treating of statics, dynamics of translation and rotation, moments of inertia, elasticity and vibrations and 5B accompanied by laboratory work in these subjects.

Two hours lecture and three hours laboratory work per week, first semester. One and one-half units credit.

Prerequisite Physics 1, 3, Mathematics 5.

6. Electrical Measurements. A lecture and text book course in the theory of electricity and magnetism, electrical measurements and measuring instruments, accompanied by laboratory work.

6A. Two hours lecture and class work, first semester. 6B. Six hours laboratory work first semester, and three hours per week second semester. Two and one-half units credit.

Prerequisite, Physics 1-4, Mathematics 5.

7. Recent Advances in Physics. Radioactivity, discharge of electricity through gases, the electron theory and other topics. Lectures illustrated by experiments.

Two lectures per week, second semester. One unit credit.

Prerequisite, Physics 1 and 3, and Mathematics 5.

8, 9. Mathematical Physics. Lecture courses in mathematical Physics for graduate students (or other advanced students). The two courses alternate in successive years, forming together a complete course, but the topics treated may vary from year to year. Such subjects as mechanics, hydrodynamics, the kinetic theory of gases, the theory of sound, electricity and magnetism, physical optics, and the electro-magnetic theory, are treated.

Two or three lectures per week throughout the year.

Prerequisite, Physics 1-4 and Mathematics 5, 6.

10. Advanced Laboratory Physics. This comprises all the advanced laboratory not included in the preceding courses, and is designed for graduate students and others specializing in Physics. The experiments or problems assigned are variable and may include research on some assigned topic. The course may be taken through more than one year, credit being given proportional to the work done.

11. Physics Seminary. A meeting, for one hour a week throughout the year, of the advanced students, at which papers on assigned topics are presented, current topics are discussed, and reports given of recent work of investigators (obtained from reading the journals). One-half unit per semester.

Civil Engineering

Professor KIRBY and —————

This department offers systematically arranged instruction leading to the degree of Bachelor of Science. Students may elect either Civil Engineering, (Group VII), or Municipal Engineering, (Group VIII). See pages 38 and 39.

Attention is called to the fact that the field of Civil Engineering is an increasingly broad one, that Municipal Engineering is but one of its many subdivisions, and that preparation for the successful practice of this or any of the branches of Civil Engineering involves the pursuit of a number of common fundamental studies.

Civil Engineering includes also Topographic, Railroad and Structural Engineering. Students who wish to prepare themselves for work along these lines should take Civil Engineering Course (Group VII).

The Municipal Engineering (Sanitary Engineering) Course is offered for those who wish to specialize somewhat in subjects relating more particularly to the problems of sanitation and civic betterment with which the engineering department of a modern city is concerned.

The courses have been so planned as to give the student in addition to his vocational training the foundations of a broad education. It is believed that such preparation is to be preferred to a college course entirely devoted to technical subjects, especially in view of the tendency of men trained as engineers to engage in other related callings, as contracting, manufacturing or commerce.

The sequence of technical subjects is such that those that are comparatively simple and basic lead up to those that are more complex and specialized. It is necessary therefore that students in this department take the course in its entirety. A few of the elementary subjects may be elected by students in other

groups whose preparation therefore has been adequate. Special work will be arranged for graduates of this or other colleges.

It is aimed to make the instruction in each subject as practical as is consistent with a broad view of the principles involved. A number of trips are arranged during the course for the inspection of engineering structures in the vicinity, etc. Reports of such visits are prepared by each student from his individual notes. A seminary for the discussion of current engineering topics is designed to afford the student training in the preparation and presentation of written papers and to stimulate his interest in matters pertaining to his chosen profession. A number of the standard engineering periodicals are kept on file for student use and a departmental library is being built up in connection with the library of the college.

1. Mechanical Drawing. Elementary principles, orthographic, isometric and cabinet projections, simple sections, intersections and developments.

One period. One unit credit.

2. Engineering Drawing. Working drawings, lettering, conventional signs, perspective, etc. This is followed by Descriptive Geometry, which comprises problems relating to the point, line and plane in space, to more complicated cases of sections, intersections and developments, with their applications to engineering and to architecture, the instruction being designed to develop in the student the power of concise reasoning.

Two periods. Two units credit.

3 and 4. Elementary Surveying. The field work is done during a period of three weeks immediately preceding the beginning of the Junior year. It consists in drill in the use of the more common surveying instruments, supplemented by recitations held at frequent intervals and designed to co-ordinate the instruction. The remainder of the course consists of calculations and mapping, done during term time. The calculations include those necessary in the ordinary office work of a land surveyor, while the mapping comprises plotting the notes of the sur-

vey made during the summer, tracing and blueprinting the map, and additional drill in plain lettering. Text-book Tracy's *Plane Surveying*.

Three weeks (145 hours) in August and September. One unit credit.

Two periods, first semester. One and one-half units credit.

5. *Mechanics*. The first semester is an elementary course including the analytical solution of problems in Statics. The remainder of the year is taken up with a consideration of the stresses in framed structures, with emphasis on graphical solutions. Numerous problems are solved by each student throughout the year.

Three periods. Three units credit.

6. *Railroads (A)*. A course in the mathematics of railroad curves,—simple, compound, and vertical, including switches and spirals; earthwork calculation and the construction of mass diagrams. Instruction is largely by recitation, involving the solution of many practical problems. Text-book, Raymond's *Field Geometry*.

Three periods, second semester. One and one-half units credit.

7. *Cement Testing and Highways*. A short laboratory course in which the standard tests of cement and mortar are made and compared, supplemented by lectures on the manufacture and use of cement. Recitations on the design, construction and maintenance of roads and pavements, with especial consideration of the exigencies of present-day traffic.

One period, second semester. One-half unit credit.

8 and 9. *Advanced Surveying*. Topographic surveying, using a variety of methods and instruments, including the plane table. Adjustment of instruments. The office work includes instruction in topographical drafting and the use of topographic maps, also the treatment of various subjects in higher surveying.

Three weeks (145 hours) in August and September. One unit credit.

Two periods, first semester. One unit credit.

10. *Hydraulics.* A study of the mechanics of water at rest and in motion, with applications to a variety of problems relating to the pressure of water and to its flow in natural and artificial channels, pipes, etc.

Text-book, Russell's *Hydraulics*.

Three periods, first semester. One and one-half units credit.

11. *Structural Design.* A course in the strength of materials as applied to the design of structures of steel and of wood. Beginning with simple joists under specified loadings the student finally makes all the calculations necessary in the complete design of a number of bridges and roof trusses of various types. The stability of existing structures is also investigated. This is essentially a course in the mathematics of design and does not include drafting. (See Course 12).

Three periods. Three units credit.

12. *Structural Drafting.* The making of detail drawings for the component parts of a steel structure. Conformity with the best practice is required in the notation, and the drawings are carefully checked.

Two periods, second semester. One unit credit.

13. *Masonry.* The design and construction of stone and concrete structures, heavy foundations, arches, walls and dams. Instruction is in part by recitation and includes drafting-room work in the design of several typical structures. Text-book, Baker's *Masonry Construction*.

Two periods, second semester. One unit credit.

14. *Sewerage.* Various types of design and construction are discussed in recitation. Plans for a small sewer system are made by each student. Modern methods for the purification and disposal of sewage and garbage. Visits are made to plants

under construction and in use. Text-book, Ogden's Sewer Construction; Kinnicutt, Winslow and Pratt's Sewage Disposal.

Two periods, second semester. One unit credit.

15. Water Supply Engineering. The quantity and quality of water from various sources. Works for the collection and storage of water, for its purification and for its distribution. Text-book, Turneaure and Russell's Public Water Supplies.

Two periods, second semester. One unit credit.

16. Railroads (B). The necessary preliminary surveys are made and a short piece of railroad line is located. (This work is done during the summer course in Advanced Surveying, C. E. S.) Course 16 includes making the plans, calculations, etc., necessary to prepare a full report on the proposed construction including its cost. The design of yards and terminals. Economics of railroad construction.

Two periods, second semester. One unit credit.

17. Contracts and Specifications. The elements of contract law as applied to the mutual relations of engineer, contractor and owner. Critical review of typical specifications, and practice in specification writing. Text-book, Tucker's Contracts in Engineering.

One period, second semester. One-half unit credit.

18. Seminary.

One period throughout Junior and Senior years. Two units credit.

Mechanical Engineering

A complete course in Mechanical Engineering is this year offered for the first time. For entrance requirements see page 31. Students will be admitted to the Freshman Class in this group in September 1913. The advanced work will be given in succeeding years. Some of the subjects may be elected by students in other groups whose preparation has been adequate.

1. Shopwork. Bench and lathe work in wood. Forging of iron and steel. Welding, hardening, tempering, annealing.

One period. One unit credit.

2. Shopwork. Machine and bench work in metals. Lectures on modern shop practice.

One period. One unit credit.

3 and 8. Machine Design. Drawing board work, with some calculation in proportioning and designing of details and simple machine elements, leading up to the complete design of small pumps, gas engines, dynamos, etc.

Four periods, first semester Junior year. Two units credit.

Two periods Senior year. Two units credit.

4. Mechanism. Kinetics. Instantaneous centers, velocity diagrams. Theory of motion of cams, gearing, linework and trains of mechanism.

Three periods, second semester. One and one-half units credit.

5. Steam and Gas Engines. Technical Thermodynamics. Construction and use of steam engines and boilers of various types. Steam turbines, heat engines, valves, governors, etc. Includes laboratory tests of power and efficiency.

Three periods. Three units credit.

6. Strength of Materials Laboratory. Tests of resistance to tension, compression, flexure and torsion. Recitations and notebook work.

Two periods first semester. One unit credit.

7. Power Plant Engineering. Power production, fuels, etc. Selection and combination of elements. Economy, financial considerations. Organization and management. Critical study of existing plants. Hydroelectric developments. Visits of inspection reported by each student.

Five periods. Five units credit.

9. Seminary. Written reviews and discussions of current technical articles.

One period through Junior and Senior years. Two units credit in all.

Electrical Engineering

A complete course in Electrical Engineering is this year offered for the first time. For entrance requirements see page 31. Students will be admitted to the Freshman Class in this group in September 1913. The advanced work will be given in succeeding years. Some of the subjects may be elected by students in other groups whose preparation has been adequate.

1. *Dynamos and Motors.* A course in the Elements of Electrical Engineering following Franklin and Esty's *Dynamos and Motors*, with some supplementary work on the fundamental equations of the magnetic circuit and the dynamo.

Three lectures per week; second semester.

Prerequisite, Physics 1-4 and preferably 6; Mathematics 5.

2. *Dynamo Laboratory.* An experimental course accompanying E. E. 1, including Magnetic Induction, Hysteresis, power measurement and power losses, characteristic curves of direct current dynamos and motors, and the operation and control of these machines.

Nine hours per week, second semester. One unit credit.

3. *Dynamo Design.* This is a comparatively elementary course in the drawing of the plans of some existing types of dynamos and motors and the calculations connected with the design.

One period throughout the year. One unit credit.

4. *Alternating Currents.* The theory of alternating currents and alternating current machinery, including a small portion of the subject of electric waves.

Four lectures per week, second semester. Two units credit.

Prerequisite, Mathematics 5, 6, Physics 6, and E. E. 1.

5. Electric Lighting and Central Stations. The principles of illumination, photometry, different systems of electric lighting, relative values and efficiency of different methods, following Franklin's Electric Lighting with considerable work, including something on central station management and problems of distribution.

Two lectures per week, first semester. One unit credit.

Prerequisite, Physics 6 and E. E. 1, 2.

6. Electric Railways. A rather elementary but comprehensive course dealing with the problems of electric railways; types and operation of railway motors for different kinds of service, the mechanics of electric cars and engines, efficiency, operating management, and the generation and distribution of the power.

Two lectures per week, second semester. One unit credit.

Prerequisite, E. E. 1, 2.

7. Electrical Engineering Laboratory. Characteristics and running tests of direct and alternating current machines, transformers, etc., and inspection of power plants. This course comprises all advanced Electrical Engineering laboratory work, and may be continued for more than one year.

Four (or three) periods per week throughout the year. Four units credit.

Prerequisite, E. E. 2.

8. Seminary. See Physics 11.

Lectureships

Mrs. Mary G. Stuckenberg has founded a Lectureship in Sociology in honor of her late husband, J. H. W. Stuckenberg, D.D., LL.D., by the terms of which the College will annually have a lecture on some phase of Sociology from the viewpoint of Christian Ethics by specialists in this important field. The lec-

ture will be given at such time as will be convenient to the lecturer chosen for the year.

Recently a friend has pledged twenty-five hundred dollars to endow a lectureship under the general title—The Claims of Christianity on the College Man.



GENERAL INFORMATION

Government

The College aims to develop the individual manhood of the student. The prevailing influences are such as lead young men to an active Christian life and to realize their personal responsibilities in the community. The immediate supervision of the students is in the hands of the President and Dean with the class officers.

Class Officers

A professor is appointed as class officer for each class. The members of the class present any request to the Faculty through their class officer and confer with him in personal matters or concerning college affairs.

Student Group Advisers

The head of each department acts as adviser to those students having a major in his department. He has oversight in the selection of electives and in the general character of the work of the student.

Student Council

Without lessening their authority and responsibility, the Faculty have delegated certain duties in government to the student body as a trial of self-government. The students act through a student council of four Seniors, three Juniors, two Sophomores and one Freshman, elected by their respective classes. The council acts in certain matters of discipline, and in matters concerning the general welfare of the student body is a medium of communication between the students and the Faculty.

Terms and Vacations

The college year of about thirty-six weeks is divided into two equal parts. The first semester begins at 8 A. M. on the second Wednesday in September and continues, with recesses at Thanksgiving and Christmas, to the first Friday of February; the second

semester begins on the same Friday and continues, with an Easter recess, to Commencement Day, the second Wednesday of June. The closing days of each semester are devoted to examinations.

Attendance

Each student, not residing with his parents, is required to attend on week days a prayer service at 7.40 A. M., in Brua Chapel. On the Lord's Day attendance is required at the morning service in the College Church. Those affiliated with other denominations are, on request of their parents, granted permission to attend elsewhere. Ten per cent. absences are allowed from prayers and church under the rules governing absence from class work.

Each student is allowed individually ten (10) per cent. absences from class-room work in each subject. This allowance, is expected to cover all ordinary absences. Fractions are not counted, and absences can not exceed four in any subject during a single semester. These absences are not allowed for the two days preceding nor for the two days following any recess. Absences are not allowed for announced examinations. Such absences can be excused only by action of the Faculty and the substitute examination will be held at such time as the instructor shall appoint. When absent from topical examinations or quizzes the student shall have an examination or quiz at such time as the instructor shall appoint. Unexcused absences count as zero on grade, and if these absences exceed the ten per cent. allowance the student shall take such special examination as the instructor shall direct. A further allowance of absences may be granted to members of athletic teams, musical organizations, participants in literary contests, and to representatives of literary societies for the purpose of attending conventions.

Electives

A student having electives must deposit with the Registrar, within the first two days of the year, a written list of his electives, bearing the endorsement of the student's Group Adviser

and of the instructors concerned. After the first week of the year changes in electives can be made only when approved by the Faculty, under such conditions as may be determined in each case.

Examinations

Examinations are held in all subjects at the close of each semester or when, during the term, a subject is completed. Instructors can hold topical or quiz examinations at the time of any of the regular appointments with the class. Absences from these examinations are governed by the rules given above.

Conditions and Deficiencies

Freshman entrance conditions must be satisfied by the beginning of the Sophomore year.

A student failing in the class work of any semester, in any course, must satisfy the work in such manner and at such time as may be required by the instructor, provided this be done before the close of the next semester.

A student failing in an examination at the end of a semester or on the finishing of any subject, is required to take a second examination at a date appointed by the instructor within the first two weeks of the next semester.

A student who at the beginning of any college year continues deficient in more than one-third of a year's work will be enrolled with the class in which the deficiency occurs.

A student deficient at the beginning of a year in courses aggregating six units will be required to drop a corresponding number of units in the regular work of the year.

Records

A record of scholarship and deportment, under the care of the Registrar, is kept for each student. The records for scholarship are A (excellent), B (good), C (fair), D (poor, barely pass), E (failed, but entitled to another examination), F (failed utterly and must repeat with the next class) and Inc. (incomplete).

The student begins each semester with a deportment grade of 100. Deductions are made from this at the end of each semester.

Unexcused absences count: from church 5, from prayers 2, from recitation 2, from gymnasium 2.

Reports

A copy of the above record is sent to the parents or other proper parties at the end of each semester. About the middle of each semester notice is given to the student and to parents of inattention to work or of low grade of work.

Requirements for Graduation

Each student completing the prescribed subjects of any group of studies and such number of electives as will aggregate at least sixty-four units, with the prescribed work in composition and speaking and in physical culture, will receive the degree pertaining to that group, either Bachelor of Arts or Bachelor of Science. Provided, however, that no student in any year shall maintain less than fifteen units per week.

No student will be graduated who is not present at Commencement unless he be excused by the Faculty.

Certificates

Partial and special course students or those withdrawing before the completion of a full course of study are entitled to a certificate giving a copy of the college record.

Master's Degree

Beginning with 1911-12 the degrees of Master of Arts and Master of Science are conferred on those having the corresponding Bachelor's degree according to the following regulations:

The Master's degree may be conferred upon resident graduates of at least one year's standing who have obtained the baccalaureate degree of this college or of any college of equal grade. Such students must present to the Faculty Committee on Advanced Degrees, for approval, a plan of advanced studies involving the equivalent of twelve units per week. It is recommended that at least one-half of the course be devoted to some one subject.

The Master's degree is also offered to non-resident graduates of this college of three years' standing or more. These must, however, at the beginning of their candidacy arrange with the Faculty Committee on Advanced Degrees (see page 18) a systematic course of study, and must report annually to the head of the department in which the subjects have been chosen.

In order to obtain the degree the candidate must pass examinations satisfactory to his instructors and to the committee. Previous to the final examinations the instructors in charge shall file with the committee a statement of the work done by the candidate. If the report is satisfactory the candidate will be permitted to present himself for final examination. He shall also be required to prepare a paper upon an approved subject bearing on his principal study. Such paper must be completed and submitted to the committee at least one month prior to the commencement on which the degree is to be conferred; if accepted, it becomes the property of the college.

Graduates of this college who have devoted at least one year to graduate work in residence at other colleges or universities and have fulfilled the above requirements may be admitted by the Faculty to the Master's degree. It may also be conferred upon graduates who have completed a course of advanced study in professional schools. Provided that the work done be in kind, grade, and amount equivalent to that required of other candidates and it has not been offered in fulfillment of the requirements for a professional degree.

Honors

The following honors will be awarded at the close of each year:

A Final Honors will be awarded to members of the graduating class meeting the following conditions:

General Final Highest Honors will be awarded those students who have maintained during the four years the grade A in all of their studies.

General Final Honors will be awarded to those students who have maintained the grade A in at least half of the units of their

four years and have not fallen below the grade B in their other studies.

Students entering at the beginning of Sophomore year will be awarded the same honors if they meet the above requirements for three years.

B. Department Final Honors. The head of any department recommending a student taking a major in that department as having shown special excellence in his work, the student, not having grade below B in more than three courses in other departments, shall be awarded Final Honors in that department.

C Class Honors for Freshman, Sophomore, Junior and Senior Years. Highest Honors for the designated year will be awarded those members of the class who have maintained the grade A in all their studies for the year.

Class Honors for the designated year will be awarded those members of the class who have maintained the grade A in at least half of the units of the year and have grade below B in none of their studies for the year.

These awards shall be announced at Commencement and published in the next BULLETIN.

Prizes

Muhlenberg Freshman Prize. The interest of a fund of five hundred dollars, contributed by F. A. Muhlenberg, D.D., LL.D., a former Professor in this college, is given at the close of the year to that member of the Freshman class who is found to have attained the highest degree of scholarship in the Greek and Latin group of studies.

Baum Mathematical Prize. Charles Baum, M.D., Ph.D., Class of 1874, of Philadelphia, has contributed five hundred dollars, the income from which is to be given annually to that member of the Sophomore class who shows the greatest proficiency in Mathematics.

Hassler Latin Prize. Mr. Charles W. Hassler furnished a

fund, the interest of which is annually expended for the purchase of a Gold Medal, to be presented to the student of the Junior class, who, at the end of the year, shall be rated as the best Latin scholar.

Reddig Oratorical Prize. Mr. Clarence Jacob Reddig, class of 1877, of Shippensburg, contributes annually the sum of twenty-five dollars as an Oratorical Prize, to be contended for in public by the Junior class, on Tuesday of Commencement Week.

Pittsburg Prize in Chemistry. The Pittsburg-Gettysburg Club has established a prize of \$25, to be given to the student who does the best work in Chemistry during the Junior year in those groups in which Chemistry is a major.

Graeff Prize. This prize was founded by Mr. John E. Graeff, class of 1843. The sum of thirty dollars is awarded for the best English Essay from the Senior class, on a subject previously assigned. The decision is made by a committee appointed by the Professor of English Literature.

Prizes in Debate. The Literary Societies of the college provide three prizes of \$36, \$24 and \$15, respectively, for the encouragement of skill in debating. The first contest takes place about the middle of November between teams chosen by the Sophomore and Freshman classes, respectively, and the winning team is rewarded with \$15. The second contest between the winning team and a team from the Junior class, takes place about the middle of March, with \$24 to the winners. The third contest, between the second victors and a team from the Senior class takes place about the middle of May, with a reward of \$36 to the winners. Winners of the first prize are excluded from further competition.

Social Problems in Christianity Prize. A friend gives annually twenty-five dollars in prizes to be contested for by members of the Senior class in a contest on the general subject of the Applications of Christianity to Social Problems. The particular topic to be assigned or approved by the Professor of Phi-

losophy. The orations shall be submitted to the judges and graded and the writers of the six receiving the highest grades shall deliver them at a public contest on or about the last Thursday in March when another committee of judges shall grade them in delivery. The prizes, fifteen and ten dollars respectively, shall be awarded on the basis of the average grades."

Brewer Greek Prize. Mr. Luther A. Brewer, class of 1883, will give a prize of twenty-five dollars to the Sophomore who shall do the best work in the regular Sophomore Greek class during the present year.

Students in partial or special courses are not admitted to competition for any of the foregoing prizes.

Scholarships and Aid for Students

Several endowed scholarships worth \$30 each are awarded annually to worthy and needy students by the Finance Committee of the Board of Trustees. All applications for these scholarships must be in writing and state in full the reasons for the request. Such applications must be handed to the President before October 1st of each college year.

An endowment fund of \$5,000 for the aid of worthy and needy students has been established by Mr. C. H. Boyer as a memorial to his father, Rev. Matthew G. Boyer, D.D., '65, for over eighteen years a most faithful and efficient member of the Board of Trustees of the College. The income from this fund is divided into ten scholarships of \$25.00 each awarded annually. Applications for this aid must be in writing and addressed to Mr. C. H. Boyer, 29 La Salle St., Chicago, Ill., or to the President before Oct. 1st of each college year.

The Parent Education Society of the General Synod controls ten scholarships, worth \$30.00 each, open to young men preparing for the ministry in the Lutheran Church. Application for use of these scholarships should be made to the chairman of the committee, J. A. Singmaster, D.D., Gettysburg, Pa.

A number of other \$30.00 scholarships have been endowed and are controlled by congregations, synods and individuals. The Gettysburg School Board controls such a scholarship established by C. W. Thompson, Esq., of Lebanon, Pa. The authorizations from those controlling these scholarships must be handed to the President before October 1st of each college year.

The children of clergymen are entitled to a reduction of one-half of the tuition and general fees.

A limited number of students may earn part of their college fees by caring for halls and class rooms and by doing other work about the campus and buildings. Twenty five cents an hour is allowed for these services. All applicants for such employment must hand a written request for same to the President before October 1st of each college year.

Upper classmen are employed as proctors and caretakers of the various college buildings. These appointments are made by the faculty and applications for such positions must be in writing and in the hands of the President before May 1st of the preceding college year.

Treasurer's Bills

The bills of the College Treasurer are made out for each semester and include half of each item for the college year.

A discount of five (5) per cent. is allowed on all dues paid within six weeks of the opening of each semester.

No student shall be graduated or receive honorable dismissal until all financial obligations to the College and for class publications and other student interests are settled, except when a student has registered a timely protest with the Faculty and the claim for relief has been allowed.

Expenses

The expenses of a college student depend on the training and habits of the individual. The following statement indicates the range for certain fixed charges:

College Items.	Low.	Moderate.	Liberal.
Tuition and General Fees	\$80.00	\$80.00	\$80.00
Library fee	1.50	1.50	1.50
Athletic fee	6.00	6.00	6.00
Room rent and heat (half room)	15.00	40.00	70.00
Electric Light (half room)	1.80	1.80	3.60
Board for 36 weeks	95.00	108.00	126.00
Laundry	15.00	18.00	20.00
	\$214.30	\$255.30	\$307.10

Books, stationery and room furnishings are very variable items.

An incidental fee of \$2.50 per semester is charged to students not residing in the college dormitories.

Beginning with 1910 a registration fee of \$5.00 is paid by all students on entrance. Those not having paid this fee will in the second semester of Senior year pay a graduation fee of five dollars.

The athletic fee contributes to expenses incurred in physical training and gives free admission to all intercollegiate games at Gettysburg.

The fee for the course for the Master's degree is \$80.00, when all the instruction required has been given by members of our college faculty, of which \$25 is a registration fee and the balance is due one month before the conferring of the degree.

Laboratory Fees

The annual fees based on three laboratory periods per week are:

Biological laboratory	\$14.00
Chemical laboratory	18.00
Physical laboratory	12.00
Mineralogy for the course	3.00
Annual fees for Junior and Senior years in Engineering courses	12.00

In addition to the chemical laboratory fee a charge is made for apparatus broken or not returned in good condition. In the physical laboratory a charge is made for material used and damage to apparatus.

Rooms, Heating and Lighting

The following rules govern the assignment of rooms in the college dormitories:

All rooms shall be declared vacant on May 1st of each year. Students desiring to remain in the rooms they have been occupying shall have that right provided they make written application to the Registrar, on blanks provided for the purpose, during the first week of May. During the second week of May all rooms not reserved in this manner shall be assigned to the members of the several classes beginning with the Junior class. The order of the choice in the classes shall be determined by lot conducted by the Registrar and the President of the Student Council.

Good conduct is required of all who room in dormitories.

Students are not allowed to change rooms during term time except by special permission from the Registrar.

The charge for room rent and steam heat is given below for each room in the dormitories and covers the period commencing one week before college opens in September and ending one week after College closes in June. Occupants of a room divide the rental. Not more than two persons are allowed to occupy one room or suite—except in some of the larger suites. In Pennsylvania Hall the designations are E. for east division, M. for middle division, and W. for west division. S. indicates South College Hall.

\$18.00: 4, 6, W; 4, 6, 8, E.

\$20.00: 5, 7, W; 5, 7, 9, E.

\$24.00: 3, W; 3, E.

\$25.00: 1, W; 1, E.

\$32.00: 3, 4, 5, M.

\$34.00: 2, W; 36 S.

- \$35.00: X, S.
 \$38.00: 12, 14, 20, 22, 28, 30, W; 6, 16, M; 14, 16, 18, 24, 26, 28, 34, 36, 38, E.
 \$40.00: 13, 15, 21, 23, 29, 31, W; 15, 17, 19, 25, 27, 29, 35, 37, 39, E.
 \$44.00: 22, 23, 24, 25, 30, 31, 32, 33, S.
 \$49.50: 26, 27, 28, 29, S.
 \$50.00: 10, 18, 26, W; 7, 9, M; 12, 22, 32, E.
 \$52.00: 8, 11, 16, 19, 24, 27, W; 10, 13, 20, 23, 30, 33, E.
 \$54.00: 9, 17, 25, W; 11, 21, 31, E.
 \$55.00: 20, 21, 34, 35, S.
 \$70.00: 8, 10, 12, 14, 18, 20, M.
 \$80.00: 17 and 19 M; 21 and 22 M; (suites of two rooms).
 \$82.50: 1, 2, 3, 4, 5, 6, 7, 8, S.
 \$95.00: 10 and 12 S; 11 and 13 S; 15 and 17 S; 16 and 18 S; (suites of two rooms).
 \$140.00: 9, 19 S (suites of three rooms).

Rooms 3, 4, 5, 8, 10, 12, 14, 18, 20, M, include a large study and a good-sized bed room. Even numbers in Pennsylvania Hall, except 22 M, are on the north side of the building.

The cost of electric light is ten cents per week for each 40 Watt Tungsten lamp.

Student Property

The College disclaims all responsibility for the care or safety of any property belonging to students. With the exception of furniture, mattresses, tacked-down carpets and window shades, any student property left in a dormitory room during the summer vacation must be securely packed in barrels or boxes distinctly marked with the owner's name and the number of his room. This is to insure against possible loss and to facilitate the cleaning of the rooms.

MATERIAL EQUIPMENT

Libraries

The College Library contains over 18,750 volumes, besides numerous unbound pamphlets. It is a regular depository of the United States Government and the Government of the State of Pennsylvania. Several hundred volumes of public documents are annually received from these sources.

The Library is available, without charge, to all students under established regulations. During term time it is open for consultation and the drawing of books four hours each week day, except on Saturday, when it is open for two hours. The librarian and his assistant are always ready to give aid to students. It is intended to further increase the opportunities for the use of the library and to enhance its general usefulness by means of a systematic organization and the building up of a complete and attractive library of reference.

The income of a fund invested for the purpose provides for needed additions.

In view of the great expense involved in the purchase of even the most necessary works in science and literature, the generous aid of the alumni and friends of the college is especially invited to the increase of this fund and to give money for the establishment of new funds.

In the same hall with the College Library are the Libraries of the Literary Societies. They comprise a large number of well selected and standard volumes, which are annually increased through the income of separate funds. The Philomathean Library contains at present over 6,850 volumes; the Phrenakosmian Library over 6,050 volumes. These libraries are accessible to the members of the societies under their respective regulations, and are open for the issue of books on Wednesday at 4 P. M., and Saturday at 10 A. M., during term time.

Reading Room

The Reading Room is well supplied with daily and weekly papers and leading literary and scientific periodicals, thus enabling the student to become acquainted with current events and contemporary, scientific, literary and other cultural movements. An annual fee of \$1.50 is charged to each student toward its maintenance.

Laboratories

The Biological Laboratories on the second floor of Recitation Hall, consist of two large well-lighted communicating rooms. They are supplied with twenty-five fine microscopes and all the appliances necessary in carrying on the work of the course outlined in the department of biology.

The Chemical Laboratories in the Chemical Laboratory Building, as described on page 89, are amply equipped with all the conveniences and apparatus and supplies that are desirable in the requirements for general and analytical chemistry, including work in organic preparations, proximate analysis, examination of water and other special subjects.

The Physical Laboratory. The lecture room is provided with a large table with sink, water, gas, and electrical connections; apparatus supports, blackboard, charts, black curtains, and a hand-painted screen for stereopticon work. The laboratories, comprising four rooms for general work, besides photographic dark room, store room and storage battery room, and the lecture apparatus room are equipped with modern and carefully selected apparatus for both elementary and advanced work. Alternating and direct electric current is supplied at different points by means of a central switch board, a motor generator and storage battery. The apparatus includes a Geryk double cylinder oil immersion air pump, high grade balances, apparatus illustrating mechanical principles and elastic constants, moments of inertia and harmonic motion, a spectrometer, photometer, and stereopticon; and in electricity, D'Arsonval galvanometers, Wheatstone

bridges, potentiometer, voltmeter, tangent galvanometer, standards of resistance, capacity, electromotive force and self-induction, ammeters and voltmeters for direct and alternating current (all of the best German or American make); a complete dynamo and motor set illustrating different styles of direct and alternating current machines (induction, synchronous, three phase, etc.); an induction coil giving an 8 inch spark, high frequency coils, electric wave apparatus, and telegraph, telephone, and wireless telegraph outfits, and Kathode ray and X-ray tubes.

The equipment in the Department of Civil Engineering is modern and adequate and is being augmented as necessity demands. The ordinary surveying instruments, such as transit, level, plane-table, etc., are included in the surveying equipment. An Ott planimeter has been recently purchased. The new cement laboratory, with its Riehle tensile briquette machine of 1000 pounds capacity, and a variety of other apparatus, is equipped for making all the standard physical tests of cement.

Museum

The Museum contains varied collections of fauna and flora and minerals, all of which are freely used in instruction. The Mineralogical Cabinet contains over 6,000 specimens, including not only very full suites of the more common and more important minerals but also good specimens of many of the rarer minerals. The collection in Lithology numbering 3,000 specimens, and of iron in Metallurgy, have, by recent additions, become fairly representative in the most important departments of these sciences. The Botanical collection of 6,000 specimens, mainly presented by Miss Elizabeth C. Morris, of Germantown, Pa., is well arranged and contains a full representation of American Flora. A beginning has been made of a Chemical Museum—to contain specimens of raw and manufactured materials in chemical industries. Friends of our institution can greatly aid us by making additions to these collections.

Buildings

Pennsylvania Hall, erected in 1836-38, was remodeled and improved in 1889. It contains eighty-six rooms for students, many of them *en suite*, so that those who may wish to do so can have separate study and sleeping rooms. In this building are the reading rooms of the Literary Societies and the large room used by the College Y. M. C. A. These rooms are heated by steam, lighted by electricity, and water pipes and lavatories connected with the college system of water works are on the first and second floors.

South College, erected in 1897, is a building of three stories containing rooms for about fifty students. It is finished entirely in hard wood, is heated with steam, lighted by electricity, has hot and cold water on each floor and lavatories in convenient places. The first floor has eight rooms, each with open fire place, tile hearth and spacious closets. These rooms may be used by one or two occupants, as preferred. On the second floor all rooms are *en suite*, each suite consisting of a study with one bed-room or two. These are also provided with hearths, closets, etc. The third floor is divided into sixteen single rooms.

Glatfelter Hall, erected in 1888-89, is used for general college purposes. On the first floor are the library room and office, the President's and Registrar's offices and recitation rooms. The second floor has recitation rooms. The large museum room is on the third floor. In the north wing is the hall of the Philomathean Society, in the south wing the hall of the Phrenakosmian Society. In the basement are the laboratories of the Department of Physics with the recitation rooms directly above. The Civil Engineering Department occupies rooms in this building for recitation and for drafting, beside a portion of the basement which is fitted up as a cement laboratory.

The Brua Memorial Chapel, erected in 1889-90, is the gift of the late Col. John P. Brua, U. S. A., as a memorial to his parents. This building is used for morning prayers, for Com-

mencement exercises, lectures and other occasions requiring a large audience room.

The Chemical Laboratory is a frame building, erected in 1872 and in 1890 converted to its present use. It contains on one floor a large lecture room, an office, store-rooms, chemical-room, balance-room, and two laboratories—providing for one hundred and twelve persons working individually. The building is fitted with the most approved appliances; gas and water at each desk; there are ample hoods, a water-distilling apparatus and large sand bath, and other necessary apparatus. The balance-room contains balances set on pillars especially built for purpose. In the basement and in the attic are store-rooms.

The Astronomical Observatory, erected in 1875, is furnished with an achromatic telescope, having an object glass of six and one-half inches, with a transit instrument, chronometer and other appliances.

The Gymnasium has on the first floor ample dressing rooms and bathing facilities, and a baseball cage. On the second, or main floor, a class of sixty members can be accommodated for gymnastic drill. The selection of specialized apparatus in light and heavy gymnastics is varied and complete. The Professor's office where all physical tests and measurements are taken, is also on this floor, and is furnished with a full set of anthropometric apparatus.

On the gallery there is a first-class Roberts' patent running track with seating accommodations for visitors.

The gymnasium is open at stated times every afternoon and evening and Saturday all day, aggregating twenty-four hours each week, apportioned between regular class practice and general practice.

The Boiler House supplies the steam required for heating all the college buildings and baths.

Nixon Athletic Field. Immediately north of the college build-

ings is the athletic field, which is carefully graded and securely inclosed and covers an area of over seven acres. It affords room and facilitates for all kinds of out-door sports. Recently the Blough running track has been built.

Besides these buildings there are on the campus the President's house, a double house for professors, and four halls erected by Greek Letter Societies.



STUDENTS' INTERESTS

Literary Societies

Two literary societies are connected with the college, the Philomathean and the Phrenakosmian. These exert a favorable influence in the intellectual and social culture of their members. The exercises consist of essays, orations, debates and music. The practical acquaintance with parliamentary law here formed makes these societies excellent schools for free citizenship. The halls occupy two wings on the third story of the Recitation Hall, and are conveniently and handsomely furnished. Their sessions are held every Friday evening. Every student should become an active member in one of these societies.

Debates and Oratorical Contests

During the year there are debates between teams representing the different classes, also between teams of the literary societies. The college is also represented in the Intercollegiate Oratorical Union, being associated with Franklin and Marshall, Ursinus, Muhlenburg and Swarthmore in an annual oratorical contest.

Y. M. C. A.

The Young Men's Christian Association of the college is an active agent in promoting religious interests among the students. Each Sunday morning and Thursday evening a public meeting is held addressed by invited guests or students. Various Bible classes are organized in college classes, fraternity and other special groups. The Y. M. C. A. Student Secretary has general direction and co-operates with the officers and committees of the association.

Lectures

A series of public lectures will be delivered each year by members of the Faculty and others prominent in some field of general interest.

The Y. M. C. A. conducts at very reasonable cost, a series of interesting lectures and musical entertainments.

Occasional lectures or addresses by prominent men are delivered before the student body.

Musical Organizations

Active and well trained choral and instrumental musical organizations consisting of a band, an orchestra, a guitar and mandolin club, and a glee club, add to the pleasure of their members and of the audience at their public exhibitions. These clubs usually take a week's trip during the spring of each year.

Athletics

The various college athletic sports, football, baseball, basketball, and field sports are well organized. They are recognized as an important part of college life and receive encouragement, but under such regulations as it is believed will prevent them from becoming a possible source of demoralization to the student or interfering with the primary work of the institution. The plan under which these sports are conducted gives the opportunity and encourages every student to regularly take part in some out-door exercise.

Students are permitted to participate in any or all branches of athletics unless parents or guardians have notified the Faculty to the contrary.

Press Club

The Press Club successfully places the various interests of the college before the public through the daily papers.

Publications

THE PENNSYLVANIA COLLEGE BULLETIN is published four times during the year. The February issue is the Announcement Number, the May issue is the Annual Catalogue, the October issue contains the Reports of the President and Treasurer, the December number is the Alumni Number.

"The Gettysburgian," under the private control of students,

is published weekly and makes a specialty of College and alumni news.

“The Y. M. C. A. Hand-Book,” issued at the opening of each college year, gives valuable information and suggestions to incoming students.

“The Spectrum,” an annual publication of the Junior Class, contains pictorial representations of the College with its various organizations and surroundings as well as useful statistics about students and alumni.

All the periodicals aim at enlarging the means of communication between the college and its graduates, former students and friends. These enterprises are cordially commended to the patronage of those interested in the welfare of the institution.

ADDRESSES OF ALUMNI


The College is anxious to keep in touch with its alumni and ex-students not graduates, and requests that any changes in address should be sent to the Registrar.

TEACHERS

The attention of school-boards and others desiring teachers is called to the fact that it is frequently in the power of the Faculty to recommend suitable candidates. Many graduates fill successfully important positions in public and private institutions. The college course is arranged to meet the requirements of the School Code of Pennsylvania, thus securing the State Certificate. See page 58.

FORM OF BEQUEST

I give, bequeath and devise to “The Trustees of Pennsylvania College, of Gettysburg, in the County of Adams,” in the State of Pennsylvania, and their successors and assigns forever, the sum of ----- (or shares in the bank of -----, or any other personal property or real estate, as the case may be), to be applied to the Endowment Fund of the Institution.

 A bequest to a benevolent corporation, to be legal, must be made at least 30 days before the death of the Testator, in Pennsylvania, and 60 days in New York, and should be signed by two witnesses.

GENERAL ALUMNI ASSOCIATION

The Alumni Association of Pennsylvania College holds its regular annual meeting Wednesday afternoon of Commencement Week. In 1876 the Board of Trustees granted the Association the privilege of nominating six of their number to membership in the Board, and of maintaining this number as vacancies occur.

The officers of the association are:

President:

Charles S. Duncan, Esq., '82 Gettysburg, Pa.

Vice Presidents:

Charles J. Fite, '98 Pittsburgh, Pa.

Prof. Charles H. Huber, '92 Gettysburg, Pa.

Hiram H. Keller, Esq., '01 Doylestown, Pa.

Secretary:

Clyde B. Stover, '94 Gettysburg, Pa.

Treasurer:

H. C. Picking, '79 Gettysburg, Pa.

DISTRICT ALUMNI ASSOCIATIONS

The various district alumni associations are active and potential factors in promoting the interests of the college and bringing the college to the notice of prospective students.

STEVENS HALL, GETTYSBURG ACADEMY

PREPARATORY DEPARTMENT

OF

PENNSYLVANIA COLLEGE

INSTRUCTORS

- WILLIAM ANTHONY GRANVILLE, PH.D., LL.D. 3 College Campus
President
- REV. CHARLES HENRY HUBER, A.M. 411 Carlisle St.
Principal and Professor of Latin and English
- GEORGE MICHAEL RICE, A.M. 54 Stevens St.
Vice Principal and Instructor in German and History
- J. GROVER CLEVELAND KNIPPLE, A.B. 16 Stevens Hall
Instructor in Greek and English
- RAYMOND M. RUDY, A.B. 16 Stevens Hall
Instructor in Latin and English
- E. DURBIN OTT, A.B. 304 Baltimore St.
Instructor in Mathematics and Science
- REV. NORMAN G. PHILLIPY, A.B. 26 Stevens Hall
Instructor in History
- MISS MARY HAY HIMES, A.M. 130 Carlisle St.
Preceptress

STEVENS HALL

Aim of the Department

Stevens Hall is located within two minutes' walk of Pennsylvania College. The object of its foundation, which the school has steadily kept in view, was to maintain for our public an Academy under the control of College Authorities. The advantages of such a combination are obvious. To students who desire to prepare for college it offers a course of preparatory instruction under the eyes of their future professors and in the line of college requirements. The school, being open at all times to visits from instructors in the College, and receiving from time to time their counsel, is able to give to those students who desire it just that preparatory study and drill which will lead to the most profitable and creditable work in the college classes. Time is concentrated upon the studies in which it is needed, and students who have satisfied the requirements in the Preparatory Department are admitted to the Freshman class of the College upon the Principal's recommendation without further examination. On the other hand, students who do not expect to enter College, and who desire only an English education, preparatory to business, teaching, etc., find in this school an academy of high grade under the supervision of college professors in a college atmosphere, and with free access to the college libraries. Near association with a college is a stimulus to study, and often awakens a desire for a higher education.

Government

The Preparatory Department, though under the control of the College authorities, has a separate building and campus of its own and is under the special direction of a Principal who is aided by a Vice Principal, two Instructors and a Preceptress.

The school seeks to develop intelligent Christian gentlemen. The discipline aims at making the pupil self-governing, and leading him to habits of self-respect and self-control by train-

ing the judgment, quickening the conscience, and cultivating a delicate sense of honor.

When it is evident that a pupil has no proper appreciation of his opportunities, and is harming the school rather than receiving benefit from it, his parents are asked to remove him.

During study hours students are expected to be in their rooms, which are subject to frequent visits by instructors.

Admission

Students are admitted at any time to the grade for which they have been qualified by previous study. But it is highly important that the student enter the school as early in the course as possible. With the present requirements for admission, a hurried preparation is generally unwise and tends to retard the student's future progress, especially in Latin and Greek. Accurate scholarship, at which the school aims, can hardly be secured without long drill, especially in the languages. Without intending at all to discourage those whose circumstances, rather than their desire, lead them to attempt short preparation, all who can are urged to lay the foundation carefully. An additional year at the beginning is always a gain because of the ease and thoroughness with which future work is done. The fact, however, is recognized that students differ widely in ability and industry, and every opportunity is afforded those who can do so to cover the required work in the shortest possible time.

No examinations are required for admission, the pupil being at once assigned to the class for which his previous studies seem to have fitted him. If, upon trial, it be found that a mistake has been made, the Principal reserves the right to transfer the student to the proper grade.

Students who have advanced sufficiently in Mathematics and the English branches to enter the Freshman class, but have not studied Latin, Greek or German will here find special arrangements made for their rapid advancement. Girls will be received as day scholars. A study hall has been reserved for their exclusive use and they are not obliged to mingle with the general class

except at regular recitation periods. When at school they are under the care of a Preceptress. Refined homes for them can be secured in town at moderate rates. They will be under the care of the Principal, who is fully informed of their conduct.

Religious Exercises

On Sunday morning the students of the Preparatory Department are required to attend worship with the college instructors and students in the College Church, or such other place of worship as their parents or guardians may designate. A Bible class is conducted by the Principal every Sunday morning and is a part of the regular course of study. Chapel service is held every morning except **Saturday**.

Courses of Study

The courses of study are designed to prepare students of either sex, who desire to enter College, for the Freshman class, and to give students who do not expect to enter College, so far as it can carry them, a wide intelligence, true culture, and habits of careful study and sound thinking. New and important subjects have been added, and increased attention is given to the lower classes. All students of the school have free access to the College Library, and students over fifteen years of age may join either of the College Literary Societies. There is also a Literary Society conducted by the students of the Preparatory Department.

Arrangements for instruction in music at moderate terms may be made in town without conflicting with regular school work.

A report of the work and conduct of each student is sent home at the end of each semester, and at any other time upon request or when the Principal thinks it desirable.

There are two courses, the Classical (with Greek), and the Scientific or Academic (with German and Physics).

The subjects taught are as follows:

CLASSICAL COURSE

Sub-Freshman Class

Periods per week :

5. Latin. Six books of the Aeneid; Prose Composition.
5. Greek. Three books of the Iliad; Prose Composition.
5. Mathematics. Plane Geometry (Wells).
2. English. College Entrance Requirements as arranged by the "National Conference on Uniform Entrance"; Exercises in English (Buehler).
2. History. Grecian History (Myers); Roman History (Myers).
1. Composition. (Wooley's Hand-Book).
1. Physical Culture.

Upper Middle Class

5. *Latin. Six of Cicero's Orations; Prose Composition; Caesar (Completed).
4. *Greek. Four books of Xenophon's Anabasis; Prose Composition.
5. Mathematics. Algebra Completed (Wells).
2. English. College Entrance Requirements.
2. History. English and French History (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

Lower Middle Class

5. Latin. Comstock's First Latin Book, Second Year Latin with Caesar.
4. Greek. White's First Greek Book with Readings.
4. Mathematics. Arithmetic Completed (Wentworth); Algebra (Wells).
4. English. Grammar (Buehler); College Entrance Requirements.
2. History. United States (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

* Special beginners' classes will be organized this year for students having advanced preparation in other subjects.

Junior Class

4. Latin. Comstock's First Latin Book.
4. Mathematics. Arithmetic (Wentworth).
4. English. Modern English Grammar (Buehler).
3. English. College Entrance Requirements.
4. History and Geography.
1. Composition.
1. Physical Culture.

Spelling is required with the English courses in the four classes.

LATIN SCIENTIFIC COURSE

 Sub-Freshman Class

Periods per week.

5. Latin. Six books of the Aeneid; Prose Composition.
3. Physics.
3. German. Grammar; Prose Composition; Reading.
5. Mathematics. Plane Geometry (Wells).
2. English. College Entrance Requirements as arranged by the "National Conference on Uniform Entrance": Exercises in English (Buehler).
2. History. Grecian History (Myers); Roman History (Myers).
1. Composition. (Wooley's Hand-Book).
1. Physical Culture.

Upper Middle Class

5. *Latin. Six of Cicero's Orations; Prose Composition; Caesar Completed.
4. *German. Vos's Essentials and Reading.
5. Mathematics. Algebra Completed (Wells).
2. English. College Entrance Requirements.
2. History. English and French History (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

* Special beginners' classes will be organized this year for students having advanced preparation in other subjects.

Lower Middle Class

5. Latin. Comstock's First Latin Book; Second Year Latin with Caesar.
4. German. Vos's Essentials.
4. Mathematics. Arithmetic Completed (Wentworth); Algebra (Wells).
4. English. Grammar (Buehler); College Entrance Requirements.
2. History. United States (Montgomery).
1. Composition and Declamation.
1. Physical Culture.

Junior Class

4. Latin. Comstock's First Latin Book.
4. Mathematics. Arithmetic (Wentworth).
4. English. Modern English Grammar (Buehler).
3. English. College Entrance Requirements.
4. History and Geography.
1. Composition.
1. Physical Culture.

Spelling is required with the English courses in the four classes.

Business

A course of instruction is given in Book-keeping when desired. This course is intended to fit young men for a business career.

Physical Exercise

The building is surrounded with large and pleasant grounds adapted to football, baseball, tennis and other out-door sports; and in addition to this the students enjoy all the privileges and instruction of the College Gymnasium.

Buildings and Rooms

The building, located on a slight eminence north of town, is heated throughout by steam, and supplied with pure artesian water. A comfortable toilet room has been placed on the first

floor. The rooms on the third floor are now arranged *en suite* with a broad archway separating the study and sleeping apartments. On the second floor the rooms are separate.

The rooms are furnished with heavy oak wardrobes, bookcases, washstands, tables and chairs. Iron enameled beds, complete with springs and mattresses, are also provided. Two students occupy two rooms, one for studying, the other for sleeping. The rooms are furnished with two single bedsteads, mattresses, chairs, table, bookcase, clothes closet, window curtains and washstand. The other articles needed for the rooms, and to be furnished by the occupants, are as follows: Washbowl and pitcher, mirror, lamp, oil can, slop pail, and carpet. The carpet for the third floor study room is $10\frac{1}{2}$ by $10\frac{1}{2}$, sleeping room $10\frac{1}{2}$ by 11, for a second floor study room 10 by $12\frac{1}{2}$. Each student must also be provided with towels, three sheets for single bed, two pillow slips, a spread, comforts and blankets, and feather pillow.

Expenses

	First Semester	Second Semester
Tuition and General Fees	\$32.00	\$32.00
Room-rent, use of furniture and steam heat...	18.00	18.00
Gymnasium fee	3.00	3.00
*Athletic fee	3.00	3.00
Total	\$56.00	\$56.00

Beginners' classes in Latin, Greek and German will be organized during the first week in April. Students entering the school at this time are charged two-thirds of the fees for the second semester.

Students do not board in the building, but in clubs and private families at a cost of from \$2.50 to \$3.50 a week. Washing is about \$1.75 a month. A deposit of one dollar will be required at the beginning of the year to insure the return of keys and the

* By payment of this fee students are entitled to free admission to all inter-collegiate contests. Students who do not feel able to pay the fee can be excused by making application to the Athletic Council.

proper care of the room. This will be returned to the student at the end of the year if no damage has been sustained. Day students are charged for tuition, general fees and the athletic fee but the gymnasium fee is optional.

A discount of five (5) per cent. is allowed on all dues paid within six weeks of the opening of each semester. Money entrusted to the Principal for the use of students will be expended as desired.

For further information address,

REV. CHARLES H. HUBER, A.M., *Principal.*

THE GETTYSBURG SUMMER SCHOOL

FACULTY

C. F. SANDERS, A.M.

Professor of Philosophy, Pennsylvania College.

G. M. RICE, A.M.

Vice Principal of Preparatory Department, Instructor in Latin,

A. B. VAN ORMER, Pd.D

Lecturer in Education, Pennsylvania College.

F. TROXELL, A.M.

Assistant in Mathematics, Pennsylvania College.

G. KNIPPLE, A.M.

Instructor in Greek in Preparatory Department.

F. MOSEB, A.M.

Assistant in English, Pennsylvania College.

JANE F. SHIELDS.

Instructor in Art, Frostburg Normal School.

The College Board at its December meeting took the Summer School under its jurisdiction by appointing Professor C. F. Sanders Principal of the Summer School.

Summer session of 1913, June 9 to July 21.

Address all inquiries to

PROF. C. F. SANDERS, Principal,
Gettysburg, Pa.

Location

Gettysburg is easy of access, being on the line of the Western Maryland railroad and connecting with Harrisburg by the Philadelphia and Reading railroad. Situated on America's most famous Battlefield, in a quiet country town, there is at once combined the interest of an inspiring history and the calm of a rural retreat. The College grounds and buildings are regarded as among the most attractive in the country.

Special Attractions

To the out-of-town teacher or student Gettysburg will offer exceptional attraction during the coming summer. The nation will celebrate the fiftieth anniversary of the great decisive battle of the Civil War which took place here. Forty thousand of the veterans,—of the Blue and the Gray—will camp on the old battlefield as fellow citizens where fifty years ago they camped and fought as mortal enemies. Visitors to the number of over a hundred thousand will visit the celebration. The addresses and maneuvers during the four days of actual celebration will be well worth the visit to every patriotic American.

Aim

The Gettysburg Summer School aims to furnish courses of study along the lines of general culture, practical life and academic subjects. The Normal Department has the equipment of the teacher of the Public and High Schools in view; the Academic Department aims to furnish training in the subjects required for entrance to College and in making up conditions and delinquent work in the college grades.

Normal Department

Greater efficiency in the school is the aim of all the work of this department. Everything possible will be done to meet the individual needs of each student. The student will be given work in the subjects for which he is prepared and in which he is anxious for further training. For purposes of classification the

work will be divided into three groups, courses which, for clearness and simplicity are called after the names of the different grades of teacher's certificates; Provisional, Professional, and Permanent Certificate Course.

The Provisional Certificate Course

The Provisional Certificate Course covers the branches of the regular county teacher's examination. The work is adapted to the needs of beginners and those who have done some teaching but feel the need of a thorough review. Substitution of subjects in the other courses will be allowed.

The Professional Certificate Course

The Professional Certificate Course is based on the subjects required for this advanced certificate. Review work may be taken in the Provisional Certificate Course, as well as such advanced subjects as the preparation of the student may justify.

The Permanent Certificate Course

The Permanent Certificate Course places stress on the subjects required for this grade of certificate together with any advanced work for which the student may be prepared.

The course in Pedagogy, History of Education, and related subjects are open to election in either of the courses. College graduates wishing to qualify to meet the requirements of the new School Code will receive College credit for any work done in these subjects which is of College grade.

An examination will be held at the close of the term. Certificates showing grade of work done will be sent to all who take the examinations.

Academic Department

As noted in the introductory paragraph, this department has the College student in view. Work in the Classics, Mathematics, Modern Languages, English, History, and Science will be provided, so far as possible, to meet the requirements of the students.

COURSES OF STUDY

Review courses in the Common School branches will be given for teachers desiring better equipment for the routine tasks of the school.

Education

1. Psychology. 2. Ethics. 3. Logic. 4. History of Education. 5. School Management. 6. Methods. In these courses the aim is to furnish such a view of the subject as will have vital bearing on the work of the school.

Science

1. Physical Geography. 2. Botany. 3. Zoology. 4. Physiology. A standard text book will furnish the basis of the courses in this department.

Mathematics

1. Algebra. 2. Geometry. The work in this department is adapted to the preparation of teachers as well as students preparing for entrance to College.

English

Courses in 1. English and American Literature. 2. Text Book and selected texts of leading Authors.

German

1. Grammar with easy readings and exercises in composition and conversation. 2. Reading of classics, syntax and conversation. 3. Advanced reading and history of literature.

Latin

1. First year Latin. 2. Caesar and Prose Composition. 3. Cicero and Prose Composition. 4. Virgil.

Greek

1. First Year Greek. 2. Anabasis. 3. Iliad.

History

1. History of the United States. 2. General History.

Art

1. Free-hand Perspective. Study of conventional type forms in pencil and charcoal.
2. Water-color. Studies of plants and still life. Landscape.
3. Design. Plant analysis. Original designs for stencils, book decorations and surface patterns. Application of stencils. Block printing.
4. Silhouette work. Representation of plant and animal forms. Human figure.
5. Construction Work.
6. Basketry.

Music

1. Voice Culture. 2. Sight Reading. More extended arrangements are being made for the session of 1913.

Library

Arrangements have been made by which the students have the use of the library of Pennsylvania College.

Class Work

The work of the school is conducted in the Recitation Building of Pennsylvania College.

Boarding and Rooms

Students will be able to secure good rooms and board at reasonable rates. Application for rooms should be made as early

as possible to the principal who has a list of available rooms on file.

Expenses

A registration fee of two dollars is charged all students. Tuition is determined by the courses pursued; five dollars for one course in either of the following departments: Education, Classical Languages, Art and Music. Three dollars each for additional courses. In other departments three dollars for first course and two dollars each for each additional course.

It is highly important that all students be present for the full term.

Correspondence solicited. Further information gladly given. Address the Principal,

PROF. C. F. SANDERS,
Gettysburg, Pa.



COLLEGE FREE LECTURE COURSE

Brua Memorial Chapel

Oct. 24—Henry Churchill King, LL.D., President of Oberlin College, Oberlin, Ohio. Subject:—"Reverence for Personality."

Dec. 17—Richard S. Kirby, C.E., Professor of Civil Engineering, Penna. College. Subject:—"The Water Supply Problem of New York City. (Illustrated).

Jan. 14—Gen. W. P. Hall, Adjutant General U. S. A., Washington, D C. Subject:—"Military Efficiency."

Jan. 28—Hon. D. F. Lafean and Dr. E. W. Brickley, York, Pa. Subject:—"The Panama Canal." (Illustrated).

Feb. 18—Doctor I. H. Betz, Historian, York, Pa. Subject:—"The Work of the Underground Railroad in Southern Pennsylvania."

Mar. 7—Professor John Marshall, LL.D., class of '78 of Pennsylvania College, University of Pennsylvania, Philadelphia, Pa. Subject:—"Serpent Venom."

STUDENTS IN COLLEGE 1912-13

GRADUATE STUDENTS (NON-RESIDENT)

Victor Budd Hausknecht	Harrisburg
John Rogers Musselman	Baltimore, Md.
Lloyd Van Doren	Lowell, Mass.

GRADUATE STUDENTS (RESIDENT)

Joseph Henry Hurst	Hanover
Julius Grover Cleveland Knipple	Gettysburg
Rev. Norman Guy Phillipy	Gettysburg
Raymond Musser Rudy	Gettysburg

SENIOR CLASS

Candidates for the Degree of Bachelor of Arts

GROUP

Robert Bruce Albert	1	Bloomsburg	9	S
Robert Jay Beck	2	Columbia, N. J.	24	E
Homer Bortner	1	Brodbecks	26	W
Lee Otis Carbaugh	1	Biglerville	30	S
Paul Snyder Creager	1	Dillsburg	31	W
Erle Kerper Diehl	1	Gettysburg	47	Hanover St.
Joseph Dale Diehl	1	York	6	W
Samuel Reynolds Diehl	2	Cashtown	14	M
John Frederick Dulebohn	2	Mason and Dixon	35	E
Charles D. Fleagle	1	Thurmont, Md.	58	York St.
Harry Lutz Forscht	1	Minersville	26	W
Robert Burns Fortenbaugh	1	Harrisburg	12	E
George Smith Garman	1	Brodbecks	15	W
James Heilman Gross	1	Manchester	29	E
John Peter Gruver	1	York	18	W
Earl Justin Haverstick	1	Altoona	3	E
John Hervey Hege	1	Williamson	6	E
George Robert Heim	1	Loysville	14	S
Clyde Leroy Hesson	1	Taneytown, Md.	10	W
August Herman Hinternesch	1	Baltimore, Md.	17	M
George Heck Hummel	2	Harrisburg	12	E
Otto Karl Ferdinand Janke	1	Williamsport	115	Buford Ave.
James Perry King	1	Kittanning	9	S
Frank Adam Kister	1	Coney Island, N. Y.,	1	E
Daniel Jacob Klinedinst	1	York	22	W

Jack Krissinger Kurtz	1	Berlin	9	M
John Calvin Lang, Jr.	2	Holidaysburg	5	S
Paul Yount Livingston	1	York	9	W
Harold Vane McNair	2	Middletown	29	S
George Michael Miller	1	York	30	W
Jacob Russell Nicholas	1	Kintnersville	31-33	E
John Dress Pannell	2	Steelton	11	E
Ernest Luther Pee	1	Everett	13	W
Walter Lee Reitz	1	Shanksville	27	E
Walter L. B. Riethmiller	1	Wilkesburg	23	W
Bertie Clinton Ritz	1	Felton	3	M
James Jay Robbins	1	Eyer's Grove	6	M
B. F. Loder Rosenberry	2	Stone Church	20	S
Lillian Margaret Rowe ✓	2	Gettysburg	201 N. Washington St.	
Benton Franklin Rudisill	1	Gettysburg	Lincoln Ave.	
Verna Alverta Schwartz ✓	2	Gettysburg	270 Baltimore St.	
David Luther Shaffer	1	Johnstown	135 N. Washington St.	
Frances Bradley Sheely	2	Gettysburg	143 Springs Ave.	
Frank Edwin Smith	1	Leechburg	21	W
Amy McCurdy Swope ✓	2	Gettysburg	208 Baltimore St.	
William Edward Tietbohl	2	South Williamsport	31	W
John Wesley Wolfe	1	Maytown	60 Chambersburg St.	

Candidates for the Degree of Bachelor of Science

Maurice Edgar Baker	3	Gettysburg	322 Baltimore St.	
John Milton Blocher, Jr.	3	Gettysburg	28 W. Middle St.	
Robert Stewart Brown	3	Gettysburg	3 Chambersburg St.	
Donald Bruce Coover	5	Gettysburg	Springs Ave.	
Clyde Early Gerberich	3	Middletown	11	W
John Christian Haberen	3	Latrobe	60 Chambersburg St.	
John Calvin Hartman	5	Gettysburg	25 Hanover St.	
John Merrill Hepler	4	Reading	10-12	S
Frederick Craft Hetzel	5	Connellsville	15	E
George Eckels Ringwald Kapp	3	New Kingston	7	M
Doyle Revere Leathers	4	Renovo	5	S
Paul Markel	3	Union Bridge, Md.	8	W
Ellis Lauderbaugh Mellott	3	Everett	10	M
Martin Lloyd Peters	3	Dallastown	28	E
Edward Hood Sincell, Jr.	5	Oakland, Md.	3	S
Harold Hartman Spangler	3	Gettysburg	48 York St.	
John Morris Steck	3	Smithsburg, Md.	17	E
Charles Harold Steele	3	Middletown	11	W
William Earle Strevig	4	York	16	W
Robert Byron Walker	3	Meyersdale	1	S

Seniors 67

JUNIOR CLASS

Candidates for the Degree of Bachelor of Arts

Clyde Lower Bream	2	Gettysburg	202 Carlisle St.
Raymond Lewis Carbaugh	1	Biglerville	30 S
Carl Cheston Dreibelbis	1	Bloomsburg	16 S
Clyde Augustus Fasick	2	Mifflintown	X S
John Ward Fisher	1	Cumberland Valley	10 M
Raymond Edward Haas	1	Ardmore	34 E
Clement Roscoe Hoffman	1	Gettysburg	166 Carlisle St.
Spurgeon Milton Keeney	1	Shrewsbury	20 M
Frank Henry Kramer	1	West Hoboken, N. J.	34-36 E
James Enfield Leaman	1	Carlisle	115 Buford Ave.
John Roy Lovell	1	Glasgow	9 W
Monroe Eugene Miller	1	Millersburg	33-39 E
Oscar Berger Noren	1	Bridgeport, Conn.	Observatory
Glenn Fox Poffinberger	1	Highfield	18 E
Titus Calvin Rohrbaugh	1	Porter's Siding	15 W
Charles Henry Shauck	1	York	7 W
Marion Jean Sheely	2	Gettysburg	143 Springs Ave.
Thomas Leslie Smith	2	Newport	27 S
Alfred Towne Sutcliffe	1	Hummelstown	135 N. Wash. St.
Marguerite Eleanor Weaver	2	Gettysburg	66 W. High St.
Samuel Evaristus Wicker	1	Altoona	2 W
Robert Jacob Wolf	1	Harrisburg	19 S

Candidates for the Degree of Bachelor of Science

Victor Earl Amspacher	3	North York	4 W
Clinton William Beard	3	Gettysburg	205 N. Washington St.
Claude Francis Beegle	4	Gettysburg	71 Hanover St.
Chester Franklin Coleman	4	Steelton	21 S
Frederick Bowman Dapp	3	Harrisburg	7 S
Norman Edward Diehl	3	Clearspring, Md.	21 S
Edgar McCreary Faber	4	Gettysburg	28 Chambersburg St.
George Henry Haberlen	3	Latrobe	22 M
John Franklin Houck, Jr.	3	Heidlersburg	20 M
Paul Lang Lotz	4	Baltimore, Md.	30 E
George Edgar Miller	3	Gettysburg	150 York St.
John Croft Myers	3	Marion	4 S
Oliver Kane Reed	5	Lansdale	15-17 S
John Reigle Rupp	3	Gettysburg	215 N. Washington St.
George Harrison Schaeffer	3	Leetonia, O.	5 M
Samuel Kline Spicher	4	Thompstontown	W. Water St.

Otho Leroy Thomas	4	Gettysburg	162 York St.
Ralph Montineau Weaver	4	Gettysburg	66 W. High St.
Lester Stewart Witherow	3	Taneytown, Md.	20 M
			Juniors 41

SOPHOMORE CLASS

Candidates for the Degree of Bachelor of Arts

Charles Wolf Baker	1	New Oxford	1 W
Ray Alfred Barnard	2	Harrisburg	23 S
Mary Louise Bayly	2	Gettysburg	301 York St.
Thomas Clifford Bittle	2	Myersville, Md.	5 W
Ruth Marguerite Brumbaugh	2	Roaring Spring	321 Carlisle St.
Ann Elizabeth Irene Burford	2	Kittanning	418 Carlisle St.
John Franklin Bussard	2	Myersville, Md.	34 S
Charles Paul Cessna	1	Rainsburg	2 W
Willard Herman Cree	2	Blandburg	28 S
Paul Mower Crider	2	Chambersburg	20 E
William Charles Day	1	Baltimore, Md.	8 E
Benjamin Franklin Derr, Jr.	2	Pottsville	29 W
Edgar Josiah Eyler	1	Thurmont, Md.	9 E
Richard Freas	1	Brooklyn, N. Y.	31 E
Robert Edward Garns	1	Chambersburg	7 E
Frank Dean Gable	2	Columbia	26 S
Charles Gruber	1	Philadelphia	4 M
Harrison Franklin Harbach	2	Reading	8 M
William Roy Hashinger	1	Coatesville	22 E
Archie Reed Hollinger	1	Gettysburg	Newville Road.
Donald Fisher Ikeler	2	Bloomsburg	9 S
Lloyd Conover Keefauver	2	Gettysburg	19 E
Benjamin Frank Kulp	1	Phoenixville	17 W
James Milton Lotz	1	Altoona	25 W
Joseph McGill	2	Thurmont, Md.	W. Water St.
Hubert Luther McSherry	1	North Washington	14 W
Mahlon Steck Miller	1	Philipsburg	30 W
Robert Emery Mock	1	Richland	38-39 E
Thomas Hay Nixon	1	Gettysburg	1 Campus
Paul William Quay	1	Phoenixville	17 W
Nina Viola Rudlsill	2	Littlestown	Stevens St.
Helen Evangeline Sieber	2	Gettysburg	37 W. Middle St.
Walter Vose Simon	1	Hagerstown, Md.	8 M
Amos Eli Taylor	1	Glenville	27 W
John Henry Leader Trout	1	Pittsburgh	6 E
Virginia Townsend Tudor	2	Gettysburg	117 Springs Ave.

John Robert Wagner	2	Stone Church	24 S
Paul Schleppey Wagner	1	Hazleton	25 S
Frank Brewster Wickersham	2	Steelton	19 S
Homer Henry Wray	2	Leechburg	8 S
Homer Charles Wright	1	Connellsville	8 M

Candidates for the Degree of Bachelor of Science

Thomas Gephart Arnold	6	Bedford	25 E
George Nieman Book	3	Harrisburg	16-18 S
John Butt	3	Gettysburg	123 Carlisle St.
Edwin Luther Folk	3	York	1 W
William Nelson Hesse	5	Coatesville	14 M
Jacob Edward Hollinger, Jr.	3	Carlisle	7 M
John Grover Houser	3	Ruffsdale	22 M
James Franklin Kelly	6	Gettysburg	58 York St.
Stephen Henry Liebensberger	3	Hazleton	36 S
Luther Kyner Musselman	5	Gettysburg	247 Baltimore St.
Clifford Caldwell Patterson	5	Greensburg	8 S
Robert Philson, Jr.	4	Berlin	9 M
Franklin Royden Robinson	6	DuBois	5 M
William Henry Sandlas	7	West Forest Park, Md.	30 E
Lloyd Ernest Schrack	4	Columbia	25 S
Clarence Raymond Shook	4	Greencastle	19 E
Winfred Wenner Smith	3	Idaville	12 M
Charles Herbert Thompson	5	Waynesboro	5 M
Harry Jay Troxell	3	Gettysburg	27 Hanover St.
Harvey Samuel Weidner	3	York Springs	22 E

Sophomores 61

FRESHMAN CLASS

Candidates for the Degree of Bachelor of Arts

Paul Bowers Beard	1	Thurmont, Md.	11-13 S
Martin Luther Bell	1	Big Spring, Md.	32 S
Foster David Bittle	1	Myersville, Md.	5 W
Joseph Warfield Collins	1	Gettysburg	336 Baltimore St.
Paul Rider Daugherty	1	Philadelphia	27 W. Water St.
Chester Arthur Dinsmore	1	Lauraville, Md.	35 S
Wouter Van Garrett	1	Hanover	28 W
James Scheaffer Glaes	1	Coatesville	14 M
Phares Robert Hershey	2	York	20 E
Willis Stuart Hinman	1	Lynn, Mass.	27 W. Water St.
Frederick William Hofmann	1	Altoona	133 N. Washington St.
Herman August Keller	1	Baltimore, Md.	32 E
Amos John Krebs	2	Glenville	27 W
Glenn Otto Lantz	1	Watsonstown	9 S

John Max Lentz	1	Gettysburg	16	Baltimore St.
James Enzer McDonald	1	Aspinwall	133	N. Washington St.
Irving Russell Mayers	1	Littlestown		18 M
Percy Leroy Mehring	2	Taneytown, Md.	27	W. Water St.
Roy Joseph Meyer	1	Wheeling, W. Va.		10 E
Viola Elizabeth Miller	2	Gettysburg	267	Baltimore St.
William Thomas Mortimer	1	Washington, D. C.		9 E
John Spangler Nicholas	1	Middletown		31-33 E
Ottis Howard Rechar, Jr.	1	York	27	W. Water St.
Sarah Hunter Reen	2	Gettysburg	144	Springs Ave.
Lewis Herman Rehmeyer	1	Glen Rock		28 W.
Harry John Ricker	1	Harrisburg	161	N. Washington St.
Ordean Rockey	2	Stone Harbor, N. J.	26	W. Water St.
Edgar Lloyd Rothfuss	1	Montoursville		12 W
Andrew Earl Rudisill	1	Hanover		16 M
Jacob Emanuel Rudisill	1	Gettysburg		Lincoln Ave.
Ralph Francis Russ	2	Harrisburg		31 S
William Raymond Sammel	1	Bedford		17-19 M
Ernest David Schwartz	2	Gettysburg	270	Baltimore St.
Chester Stewart Simonton	1	Altoona		24 W
Donald VanDyke Smith	1	Idaville		12 M
Lewis Neiffer Snyder	1	Harrisburg		37 E
John Elmer Spanger	1	Gettysburg		38-39 E
Hugh Iseman Stitt	1	Klittanning		10 E
Jonas Andrew Strausbaugh	1	York		E. Water St.
William Franklin Sunday	1	York		14 M
Joshua Goheen Swartz	1	Harrisburg		6 S
John Supplee Tome	1	Maytown		18 M
Norman Frey Trattner	2	York		20 W
Edith Esther Watson	2	Frostburg, Md.	209	N. Wash. St.
Clarence George Webner	1	Harrisburg	161	N. Washington St.
Paul Albert Weidley	1	Altoona		24 W
Jay Arthur Yagle	2	York		E. Water St.

Candidates for the Degree of Bachelor of Science

LeRoy Albert	8	Lebanon		6 W
Guy Milton Appler	4	Gettysburg	26	E. High St.
James Glenn Beall	4	Frostburg, Md.		2 S
Fred Wilmer Bietsch	4	Chambersburg		34 S
John William Bream	6	Cashtown	202	Carlisle St.
Jay William Bringman	4	Gettysburg		Harrisburg Road
Karl Smith Brooks	6	York		21 E
Martin Howard Buehler	8	Germantown		6 S
James Clyde Cassidy	6	Altoona		25 W
Alfred Barry Crilly	4	Altoona		11-13 S
Ralph Leroy Demmy	8	Harrisburg		19 S

Fred Samuel Faber	4	Gettysburg	28 Chambersburg St.
Carl Thomas Floto	6	Connellsville	32 S
Jacob Frysinger	4	Manchester	4 M
Howard Madison Garvin	4	Gettysburg	213 Buford Ave.
William Morgan Gaynor	4	New York, N. Y.	31 S
Clarence Victor Hoar	4	Lancaster	26 S
Ralph William Hoch	4	Reading	10-12 S
Fritz Draper Hurd	5	Williamsport, Md.	58 York St.
Walter Epley Johns	3	Gettysburg	Steinwehr Ave.
Grover Patterson Keckler	3	Gettysburg	Steinwehr Ave.
George Bowen Kendlehart	4	Gettysburg	40 W. Middle St.
Edwin Bower Kennedy	5	Harrisburg	115 Buford Ave.
Edward Pelham Kerper	5	Harrisburg	24-26 E
Charles Boyd McCollough	5	Chicora	4 S
James Eugene Mahaffie	4	Renovo	4 S
Thomas Anderton Monk, Jr	7	Turtle Creek	14-16 E
Paul William Neu	5	West Hoboken, N. J.	22 S
Howard Daniel Oberdick	8	York	22 S
James Loder Park	5	Indiana	3 M
William Henry Patrick, Jr.	8	Harrisburg	131 N. Washington St.
Andrew Luther Peschau	5	Miamisburg, O.	16-18 S
Jacob Howard Reinecker	4	Gettysburg	341 York St.
Statton Luther Rice	7	Marysville	19 S
George Roth	5	Jersey City, N. J.	21 E
George Eicholtz Scheffer	8	Harrisburg	115 Buford Ave.
Arthur Guy Taughinbaugh	4	Gettysburg	128 York St.
Will Sentman Taylor	4	Gettysburg	19 E. High St.
George Hedges Trundle	7	Frederick, Md.	16 M
John Wine Unger	10	Washington, D. C.	2 S
Homer Berkley Walker	4	Orrtanna	1 S
Murry Morgan Washburn	4	Harrisburg	31 S
George Brown Weigle	8	Columbia	23 S
Bertha Blanche Weikert		Gettysburg	402 York St.
Marshall Filler Welmer	4	Clearville	15-17 S
Erma Ruth Wills	3	Gettysburg	N. Stratton St.
Olin Leroy Wills	3	Gettysburg	N. Stratton St.
Stanley Manners Wray	5	Leechburg	8 S
Harry Ellsworth Zerby	5	Steelton	13 E

Freshmen 95

PARTIAL COURSE STUDENTS

Webster Julius Altemose	Dunmore	161 N. Washington St.
John William Bream	Cashtown	202 Carlisle St.
Luther Truman Brumbaugh	Roaring Spring	321 Carlisle St.
Frederick John Turek	Glen Lyon	19 W

Partial Course 4

STUDENTS IN THE ACADEMY

SUB-FRESHMAN CLASS

Marie Elizabeth Bentz	Gettysburg	26 Stevens St.
Henry David Bongartz	Jersey City, N. J.	44 S. H.
G. Elmer Bookhultz	Washington, D. C.	30 S. H.
Charles Arthur Brame	Idaville	29 S. H.
J. Howard Braunlein	Baltimore, Md.	32 S. H.
J. Vernon Cannen	Baltimore, Md.	32 S. H.
Charles Slagle Diller	New Oxford 239 N. Washington St.	
Charles William Duncan	Gettysburg	109 Lincoln Ave.
Rudolph Wheeler Gleichman	Baltimore, Md.	40 S. H.
Raymond Luther Hesson	Taneytown, Md.	10 W
Paul Jacob Horick	Westminster, Md.	29 S. H.
Myron Reed Huff	Gettysburg	Franklin St.
Frederick L. W. Kuhlman	Ursina	Seminary Ridge
Herman Stanley Mebring	Philadelphia	34 S. H.
Harold Henry Millin	Everett	44 S. H.
Samuel Herbert Newcomer	Smithsburg, Md.	24 S. H.
Adam LeRoy Orris	Mechanicsburg	23 S. H.
Emory Clyde Orris	Mechanicsburg	23 S. H.
Alexander Preston Ringler	Berlin	27 S. H.
Jacob Carroll Rupp	Hanover	43 S. H.
Fred K. Schwartz	Worthington	39 S. H.
Stanley Armstrong Shank	Gettysburg	223 E. Middle St.
Charles Morris Sincell	Oakland, Md.	46 S. H.
John Houston Snyder	Newville	40 S. H.
Raymond Albert Weissenborn	Jersey City, N. J.	38 S. H.
Ida Dorothy Zane	Gettysburg	227 Carlisle St.
		Sub- Freshmen 26

UPPER MIDDLE CLASS

Henry Edward Barbehenn	Gettysburg	218 Stratton St.
Gertrude Alma Brown	Gettysburg	Baltimore St.
Elizabeth Donaldson Linn	Orrtanna	70 Stevens St.
Harry Calvin Lower	McKnightstown	
Moyer Milfred Meiser	Thompsontown	46 S. H.
Russell Francis Meizell	Gettysburg R. D. 7	
Clarence Burleigh Monk	Turtle Creek	14 & 16 E
Frank Andrew Nicholson	Kittanning	41 S. H.
Edmund Emmanuel Power	Gettysburg	316 Baltimore St.
George Stanlish Poust	Hughesville	28 S. H.

James Andrew Royer	York	39 S. H.
William Hood Snyder	Duncannon	45 S. H.
Paul Emmanuel Stock	Gettysburg	219 Baltimore St.
Eugene Harold Topper	Gettysburg	527 Balto. St.
Ralph Lashelle Wagner	Gordon	45 S. H.
Roy Clarence Wolf	Gettysburg R. D. 3	
		Upper Middle 16

LOWER MIDDLE CLASS

Howard William Armor	Gettysburg	107 E. Middle St.
William Zacharias Bair	Hanover	4 Confederate Ave.
David Bronstein	Gettysburg	133 W. High St.
Amelia Butt	Gettysburg	123 Carlisle St.
Sarah Katherine Butt	Gettysburg	123 Carlisle St.
Samuel Alexander Gilliland	Gettysburg	239 Carlisle St.
Henry McClellan Hersh	New Oxford	
John Earl Plank	Gettysburg R. D. 4	
Edwin Diehl Ross	Gettysburg	239 N. Washington St.
Ruth Alverta Rudisill	Gettysburg R. D. 1	Lincoln Ave.
Howard Henry Weaner	Gettysburg	70 Stevens St.
		Lower Middle 11



STUDENTS IN SUMMER SCHOOL

Mary E. Ashway	Chambersburg
Gertrude Bair	Fannettsburg
Elizabeth Bayly	Gettysburg
Nellie K. Blocher	Gettysburg
Anna Crapster	Taneytown, Md.
D. M. Crist	Swarthmore
Myrtle Dittenhafer	Starners
Edna Eicholtz	Gettysburg
Irene Fleck	Gettysburg
Marguerite Garner	Taneytown, Md.
Mrs. M. Howard	Gettysburg
Robert Hale	Scotland
Beulah Keckler	Gettysburg
Susie Kriechbaum	Chambersburg
Anna Landis	Fairfield
Anna Majors	Gettysburg
Hattie McGrew	Gettysburg
Alice Miller	McKnightstown
May Morrison	Bendersville
Clarence Powers	York Springs
Mary E. Rice	Ridgeway
Ruth Rudisill	Gettysburg
Grace Sachs	Gettysburg
J. Belle Scott	Eddington
Lou Etta Sharetts	Gettysburg
Grace Sneeringer	Irishtown
Blanche Stoops	Gettysburg
Mabel Umbrell	Lurgan
Mrs. Mary Wible	Gettysburg
Mrs. K. K. Witherow	Gettysburg
Martha Witherow	Fairfield

NUMBER STUDENTS IN COLLEGE 1912-13

Graduates	7
Seniors	67
Juniors	41
Sophomore	61
Freshmen	95
Partial	4
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Collegiate Department	268
Academy	53
Summer School	31
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Total	359



COMMENCEMENT 1912

SALUTATORY

John G. Fleck

COMMENCEMENT ORATOR

Hon. Harry M. Clabaugh, Chief Justice of the Supreme Court of
District of Columbia, Class of '77

VALEDICTORY

Carl C. Rasmussen

GRADUATES

Bachelor of Arts

John Edgar Ainsworth	Wayne Blessing Krebs
Wilbur Moses Allison	Sara Nancy Lau ✓
Charles Walt Beaver	Bernard Seiss Lawyer
Harry Hursh Beidleman	Charles Edgar Liebegott
Samuel Isett Bloomhardt	Miles Raymond Law Markley
Charles Stahle Butt	Oscar Robert Mellin
Harold Sheely Diehl	Emory Durbin Ott
Paul Melanchthon Enders	Franklin Joseph Peck
Charles Doty Fausold	Carl Christian Rasmussen
John Gabriel Fleck	Mary Louise Rowe ✓
Robert Charles Fluhrer	Earl Stockslager Rudisill
Luther Melanchthon Fritsch	Stewart Hartman Rudisill
Margaret Gilliland ✓	Raymond Musser Rudy
Elmer William Harner	Willard Elias Saltsgiver
Ernest Roy Hauser	George Elmer Sheffer
Joseph Henry Hurst	Charles Augustus Shilke
Niamond Foreman Keller	Walter Daniel Spangler
Daniel Ketterman	Marie Llewellyn Vanderslice ✓

Norman Jay Gould Wickey

Henry S. Ehrhart as of the class of 1893

Bachelor of Science

Clarence Edgar Bachman	Edwin Clay Morrow
Harry Smith Beetem	Amos Sentman Musselman
Mark Brenner	Raymond Boyd Nell
Roy Talmage Brumbaugh	Orville Mallilieu Ott
Berlin Empfield	Elsie Louisa Paul ✓

Joseph Herr Fritchey	Edred Joseph Pennell
George Edgar Hartman	John Clark Rinn
Clark Wesley Heller	Hubert Royer
Hoyt Eugene Heller	Martin Luther Valentine
Henry Kurtz Hufford	Maurice Cornelius Wentz
Samuel Franz Lehman	Harry Snyder Wolfersberger
William Sherman McCullough	Emmett Robert Woods
Robert Ezra Yohn	
Albert A. Partner as of the class of 1905	

Certificates for Partial Course

Ruth Bream	Anna Gilliland
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Glatfelter Memorial Exercises at the unveiling of name, at Glatfelter Hall immediately after Commencement Exercises.

Address by President Emeritus H. W. McKnight, D.D., LL.D.

FOUR YEAR HONORS

Class of 1912

Second Honor

Joseph Herr Fritchey	Charles Stahle Butt
Norman Jay Gould Wickey	George Elmer Sheffer
Elmer William Harner	Harold Sheely Diehl
Raymond Musser Rudy	Walter Daniel Spangler
Edwin Clay Morrow	

THREE YEAR HONORS

First Honor

Carl Christian Rasmussen	John Gabriel Fleck
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Second Honor

Robert Charles Fluhrer	Berlin Empfield
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DEPARTMENT HONORS

Chemistry

Joseph Herr Fritchey

HIGHEST CLASS HONORS

Sophomore

John Ward Fisher	Spurgeon Milton Keeny
Oscar Berger Noren	

CLASS HONORS

Junior

Frank Adam Kister

Earnest Luther Pee

Walter L. B. Reithmiller

Sophomore

Victor Earl Amspacher

Frank Henry Kramer

John Roy Lovell

Freshman

Charles Paul Cessna

Winfred Wenner Smith

Charles Gruber

Stephen Henry Liebensberger

John Henry Leader Trout

Graeff Prize in English

Raymond Musser Rudy

Hassler Prize in Latin

Frank Adam Kister

with honorable mention of

Harold Vane McNair

Harry Lutz Forscht

Frank Edwin Smith

Robert Burns Fortenbaugh

Pittsburg Club Prize in Chemistry

George Eckels R. Kapp

with honorable mention of

Ellis L. Mellott

Baum Prize in Mathematics

Spurgeon Milton Keeny

with honorable mention of

John Ward Fisher

John Roy Lovell

Muhlenburg Freshman Prize

Charles Gruber

John Henry Leader Trout

with honorable mention of

Charles Paul Cessna

PRIZES IN DEBATE

First and Second Prizes

James Heilman Gross

George Robert Heim

Frank Edwin Smith

Third Prize

Donald Fisher Ikeler

Winfred Wenner Smith

John Henry Leader Trout

Reddig Prize in Oratory

George Robert Heim

with honorable mention of

Robert B. Fortenbaugh

HONORARY DEGREES

CONFERRED AT COMMENCEMENT, 1912

Doctor of Divinity

Rev. E. E. Blint.....	Leechburg
Rev. G. M. Diffenderfer	Carlisle
Rev. P. A. Heilman	Baltimore, Md.
Rev. Frederick H. Knubel	New York, N. Y.
Rev. U. S. G. Rupp	Frederick, Md.
Rev. Chas. S. Trump	Martinsburg, W. Va.

Doctor of Literature

Augustus Seiss Downing, Ph.D., Pd.D.	Albany, N. Y.
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Doctor of Laws

Robert Weidensall	New York, N. Y.
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Master of Arts

Paul W. Kuendig	Wayne
Henry C. Earnshaw	Philadelphia
W. K. T. Sahn, M.D., '72.....	Pittsburg
Rev. John R. Richards, '01.....	Zanesville, Ohio.
J. A. Singmaster, '98.....	Palmerton, Va.
Louis E. Smith, '08.....	Mt. Hermon, Mass.
H. Rey Wolf, '09	Martinsburg, W. Va.

Master of Science

James B. Graff, M.D., '05.....	Duluth, Minn.
Frederick A. Muhlenberg, '08.....	Reading

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