CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE.

1865–66.
A Catalogue
Of the
Officers and Students
Of
Haverford College,
For the
Academical Year
1865–66.

Philadelphia:
Merrihew & Son, Printers.
No. 243 Arch Street.
1865.
Corporation.

SECRETARY,
PHILIP C. GARRETT.

TREASURER,
JOHN M. WHITALL.

MANAGERS,
Charles Yarnall,
Samuel Hilles,
George Howland, A.M.,
Jeremiah Hacker,
John M. Whitall,
Anthony M. Kimber,
Theophilus E. Beesley, M.D.,
Wistar Morris,
T. Wistar Brown,
Joseph W. Taylor, M.D.,
Harrison Alderson,
William S. Hilles,
Henry Hartshorne, M.D.,

James Whitall,
Hugh D. Vail, A.M.,
Haydock Garrigues,
Jas. Carey Thomas, M.D.,
Benjamin V. Marsh,
Philip C. Garrett,

SECRETARY OF THE BOARD,
Charles Yarnall.
Committee on Instruction.

CHARLES YARNALL, HUGH D. VAIL, A. M.,
JEREMIAH HACKER, HENRY HARTSHORNE, M. D.,
JOHN M. WHITALL, BENJAMIN V. MARSH,
HARRISON ALDERSON, JOSEPH W. TAYLOR, M. D.,
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T. WISTAR BROWN, RICHARD CADBURY.

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Committee on Houses and Grounds.

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GEORGE HOWLAND, A. M., THOMAS P. COPE,
JAMES WHITALL.

Committee on Investments.

BENJAMIN V. MARSH, T. WISTAR BROWN.
Faculty.

SAMUEL J. GUMMERE, A. M.,
President.

THOMAS CHASE, A. M.,
Professor of Classics and Belles-Lettres.

SAMUEL J. GUMMERE, A. M.,
Professor of Mathematics, Physics, and Astronomy.

EDWARD D. COPE, A. M.,
Professor of Comparative Zoology and Botany.

JOHN H. DILLINGHAM, A. M.,
Adjunct Professor of Classics and Belles-Lettres, and Librarian.

WILLIAM WETHERALD,
Superintendent.
Undergraduates.

**SENIOR CLASS.**

<table>
<thead>
<tr>
<th>Names</th>
<th>Residence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elliott, Aaron Marshall</td>
<td>Jamestown, N. C.</td>
</tr>
<tr>
<td>Valentine, Benjamin Eyre</td>
<td>Salem, Mass.</td>
</tr>
</tbody>
</table>
JUNIOR CLASS.

<table>
<thead>
<tr>
<th>NAMES</th>
<th>RESIDENCE</th>
</tr>
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<tbody>
<tr>
<td>Ashbridge, John</td>
<td>West Whiteland, Pa.</td>
</tr>
<tr>
<td>Ashbridge, George</td>
<td>West Whiteland, Pa.</td>
</tr>
<tr>
<td>Chase, Robert Howland</td>
<td>Union Springs, N. Y.</td>
</tr>
<tr>
<td>Clark, William Penn</td>
<td>Centre Valley, Ind.</td>
</tr>
<tr>
<td>Collins, Samuel Craft</td>
<td>Morrisville, Pa.</td>
</tr>
<tr>
<td>Crenshaw, Nathaniel Bacon</td>
<td>Richmond, Va.</td>
</tr>
<tr>
<td>Darlington, Charles Howard</td>
<td>Davenport, Iowa.</td>
</tr>
<tr>
<td>De Cou, Franklin</td>
<td>Yardville, N. J.</td>
</tr>
<tr>
<td>Dorsey, William Tagart</td>
<td>Baltimore, Md.</td>
</tr>
<tr>
<td>Eshleman, B. Franklin</td>
<td>Lancaster, Pa.</td>
</tr>
<tr>
<td>Jones, Richard Mott</td>
<td>Dirigo, Me.</td>
</tr>
<tr>
<td>Swift, William L.</td>
<td>Hart's Village, N. Y.</td>
</tr>
<tr>
<td>NAMES</td>
<td>RESIDENCE</td>
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<tr>
<td>------------------------------</td>
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</tr>
<tr>
<td>Abbott, Charles Tucker</td>
<td>Salem, N. J.</td>
</tr>
<tr>
<td>Coffin, Elijah</td>
<td>Richmond, Ind.</td>
</tr>
<tr>
<td>Cook, Edward Hanson</td>
<td>North Vassalboro', Me.</td>
</tr>
<tr>
<td>Haines, Zebedee</td>
<td>Medford, N. J.</td>
</tr>
<tr>
<td>Heulings, Isaac W.</td>
<td>Moorestown, N. J.</td>
</tr>
<tr>
<td>Holme, Richard Henry</td>
<td>Salem, N. J.</td>
</tr>
<tr>
<td>Pinkham, Gilbert Latey</td>
<td>Salem, Ohio.</td>
</tr>
<tr>
<td>Cadwallader</td>
<td></td>
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<tr>
<td>Thompson, David Allen</td>
<td>Salem, N. J.</td>
</tr>
<tr>
<td>Tomlinson, Samuel Finley</td>
<td>Bloomington, N. C.</td>
</tr>
</tbody>
</table>
## FRESHMAN CLASS.

<table>
<thead>
<tr>
<th>Names</th>
<th>Residence</th>
</tr>
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<tbody>
<tr>
<td>Congdon, Johns Hopkins</td>
<td>Providence, R. I.</td>
</tr>
<tr>
<td>Pearson, George</td>
<td>Mercer, Pa.</td>
</tr>
<tr>
<td>Taylor, William Shipley</td>
<td>Cincinnati, Ohio.</td>
</tr>
<tr>
<td>Wood, Charles</td>
<td>Mt. Kisco, N. Y.</td>
</tr>
</tbody>
</table>
SUMMARY.

Seniors, 2
Juniors, 14
Sophomores, 13
Freshmen, 8

Total, 37
Calendar.

Winter Term, 1865–66, began . . . 9th mo. 13.
Winter Term, 1865–66, ends . . . 1st mo. 31.
Summer Term, 1866, begins . . . 2d mo. 21.
Summer Term, 1866, ends . . . 7th mo. 11.
Biennial Examinations, 1866, begin . 5th mo. 28.
Oration before Loganian Society, 1866 1st mo. 30.
Junior Exhibition, 1866 . . . . 1st mo. 31.
Address before Alumni, 1865 . . . 10th mo. 14.
Public Meeting of Loganian Society, 1866, 7th mo. 10.
Commencement, 1866, . . . . 7th mo. 11.
Examinations for Admission, 1866, \{ 2d mo. 20.
\{ 9th mo. 11.
Winter Term, 1866–67, begins . . . 9th mo. 12.
Requisites for Admission.

Candidates for admission to the Freshman Class are examined in the following books, (for any of which, however, real equivalents will be accepted):

**CLASSICAL DEPARTMENT.**

Andrews and Stoddard's, or Harkness's Latin Grammar.

Caesar's Commentaries.

Virgil's Eclogues.

Cicero's Orations against Catiline, and the first twenty exercises in Arnold's Latin Prose Composition.

Sophocles's, Crosby's, or Hadley's Greek Grammar.

Felton's or Jacob's Greek Reader, and the first fifteen exercises in Arnold's Greek Prose Composition, (to be written with the accents.)

**MATHEMATICAL DEPARTMENT.**

Greenleaf's Arithmetic.

Alsop's First Lessons in Algebra, and the first two books of Davies's Legendre.

**ENGLISH DEPARTMENT.**

Brown's English Grammar.

Mitchell's Ancient and Modern Geography, and Worcester's Elements of History.
The candidates must be well prepared, also, in reading, writing, spelling, and other elementary knowledge. For pronunciation and orthography, Worcester and Smart are held as the standard authorities.

Applications for admission must be made to the Secretary of the Board of Managers, Charles Yarnall, No. 109 North Tenth Street, Philadelphia. Candidates will present themselves at the College, for examination by the Faculty, the morning preceding the opening of the term.

Students may be admitted to Advanced Standing when they can pass a satisfactory examination in all the previous studies of the course.
Course of Study.

FRESHMAN CLASS.

MATHEMATICS.
Geometry, .... Euclid.
Algebra, .... Alsop.
Plane Trigonometry, .... Gummere.
Surveying, .... Gummere.

GREEK AND LATIN.
The Anabasis of Xenophon, .... Crosby.
Herodotus, .... Johnson.
Greek Syntax, .... Crosby or Hadley.
Greek Prose Composition continued, .... Arnold.
Virgil, .... Schmitz or Frieze.
Cicero, .... Folsom or Johnson.
Latin Syntax and Prosody.
Latin Prose Composition continued, .... Arnold.
Classical Geography and Antiquities, .... Kiepert and Smith.

ENGLISH.
Compositions.
Universal History, .... Weber.
Chemistry, .... Stoeckhardt.
Geology commenced, .... Dana.
Physiology, .... Hooker.
SOPHOMORE CLASS.

MATHEMATICS.
Surveying, continued, ... Gummere.
Spherical Trigonometry, Conic Sections, and Spherical Projections, Lewis.
Physics, ... Loomis.
Astronomy, ... Herschel.

GREEK AND LATIN.
The Iliad of Homer, ... Felton or Owen.
Plato's Apology and Crito, ... Tyler.
Greek Composition.
Livy, ... Lincoln.
The Odes of Horace.
Latin Composition.

ENGLISH.
Geology continued, ... Dana.
Physical Geography, ... Guyot.
Organic Chemistry, ... Johnston.
Evidences of Christianity, ... Paley.
Comparative Zoology and Botany, ... By Lectures.
Themes.
JUNIOR CLASS.

MATHEMATICS.
Astronomy, continued, Herschel.
Analytical Geometry, Davies.
Differential and Integral Calculus, Davies.

GREEK AND LATIN.
The Prometheus Bound of Æschylus.
Demosthenes or Isocrates.
Thucydides, Owen.
Greek Composition.
Horace, Lincoln.
The Germania and Agricola of Tacitus, Tyler.
The Captivi of Plautus.
Latin Exercises and Extemporalia.
Greek Testament, Tischendorf.

ENGLISH.
Philological Study of the English Language, March's Method.
Rhetoric, Whately.
Logic \{ the Aristotelian system, Whately.
\{ the Hamiltonian system, By Lectures.
Political Economy, Wayland.
The Law of Nations and American Law, Kent.
Comparative Zoology and Botany, By Lectures.
Themes.
SENIOR CLASS.

MATHEMATICS.
Analytical Mechanics.
Optics, \textit{Snell's Olmsted}.
Practical Astronomy, \textit{Loomis, with practice in the Observatory}.

GREEK AND LATIN.
Thucydides, \textit{Owen}.
The Antigone of Sophocles, \textit{Woolsey}.
Greek Composition.
Cicero's Tusculan Disputations, and
Somnium Scipionis, \textit{Chase}.
The Letters of Pliny the Younger.
Cicero de Officiis.
Latin Themes and Extemporalia.
Greek Testament, \textit{Tischendorf}.
Modern Greek, \textit{By Lectures}.

ENGLISH.
Ethics \textit{Dymond}.
Analogy of Natural and Revealed Religion, \textit{Butler}.
Gurney's Observations.
History of Modern Civilization, \textit{Guizot}.
Lectures on Modern History, \textit{Arnold}.
Psychology, \textit{Haven}.
Histology and Development, \textit{By Lectures}.
Forensics.

Instruction is given to the Senior and Junior Classes in \textit{French and German}. 
Lectures.

The Special Courses of Lectures to the whole College, for the Winter of 1865-66, are as follows:—

The History of Astronomy, President Gummere.
The English Poets of the Nineteenth Century, ... Professor Chase.
Palæography, with special reference to the Manuscripts of the New Testament, ... Professor Chase.

Examinations.

In determining the rank of the students, equal weight is given to the viva voce and the written examinations. Near the close of each Summer Term there is a private examination, in writing, of the Sophomore and of the Senior Classes: of the former, upon the studies of the first two years of the course, preparatory to advancement to the Junior Class; and of the latter, upon those of the last two years, for the degree of Bachelor of Arts. The examinations are conducted upon the following plan:—

The members of the class under examination are seated in a room by themselves, under the supervision of an officer, and each student is furnished with a set of questions upon some book or subject in the course, which he is required to answer in writing, without consulting any person or book. The time of writing,
for the examination in each book, is limited to four hours. The questions are upon topics and passages selected throughout the text-books, and are calculated to test as accurately as possible the student's knowledge of the whole subject.

A student's answers must be sufficiently meritorious to receive a mark of at least five, on a scale of ten, in the examination upon each book, and a general average of six and two-thirds in each department, before he can be advanced to the Junior Class, or receive the diploma of Bachelor of Arts.

The *viva voce* examinations are made in the daily recitations. Each recitation during the course is marked on a scale in which ten indicates the highest excellence. From the aggregate of marks received for recitations, themes, etc., deductions are made for irregularities and misdemeanors; and the sum of credit marks remaining, reduced to an average on the scale of ten, is combined with the average obtained in the written examinations, to determine a student's rank.

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**Degree of Master of Arts.**

**Graduates** of three years' standing may take the degree of Master of Arts, on submitting to the Committee on Instruction satisfactory evidence of continued good moral character, and presenting a well-written thesis on some literary or scientific subject, which shall receive the approbation of the Managers
and Faculty. As it is designed to make this degree a real distinction, the thesis is expected to exhibit sufficient research, thought, scholarship, and ability to attest substantial desert on the part of the applicant. The fee for the diploma is Five Dollars.

Astronomical Observatory.

The Haverford Observatory affords the students in the higher classes the means of becoming familiar with the use of astronomical instruments, and of acquiring, from actual observation, a practical acquaintance with Astronomy.

It contains an Equatorial Telescope, mounted in the Fraunhofer style, with an object-glass of $8\frac{1}{4}$ inches aperture, and a focal length of 11 feet, and furnished with an annular micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times; a Meridian Transit Circle, of the German form, having a Telescope of 4 inches aperture, and 5 feet focus, with a circle at each end of the axis 26 inches in diameter—one reading by four verniers to two seconds of arc, the other used simply as a finder; a Prime Vertical Transit; a Solar Clock; a Sidereal Clock, with the mercurial compensation; and Bond's Magnetic Chronograph, for the instantaneous recording of observations. The Observatory is lighted and the instruments illuminated with gas.
Library and Apparatus.

The Library of the College contains 3,488 volumes; that of the Loganian Society 1,600, making the whole number of books in the two Libraries 5,088.

By liberal contributions of friends of the College, a fund of ten thousand dollars has been established, the income of which is devoted to the increase of the Library.

The College has recently received, from generous Friends in England, the valuable gift of a copy of the splendid edition of the Codex Sinaiticus, published by the Emperor of Russia.

It is arranged that the Library shall present to the students every possible convenience for usefulness, by the free use of it as a reading-room several hours daily, and by unrestrained consultation of the volumes in the alcoves.

Extensive Apparatus is provided for the illustration of Natural Philosophy and Chemistry.

The large Mineralogical Collection of the late Dr. Troost occupies the cases in the Collection Room. The Geological Cabinet comprises, among other specimens, complete suites illustrating the Geology of New York and South Carolina, prepared for the College by the late Prof. Lardner Vanuxem.

In the rear of the Lecture and Apparatus Rooms is a commodious and well-furnished Laboratory, in which the students are familiarized with Chemical Manipulations, under the supervision of the Professor of Chemistry.
Societies.

The Loganian Society was established by the Officers and Students in 1834. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, "The Collegian," monthly. It has in its possession a carefully selected Library of about 1600 volumes, and cabinets of conchology, geology, natural history, medals, and coins. A large and well-furnished Gymnasium, also, is under its direction.

In the last year a handsome revolving stereoscope, holding one hundred pictures, purchased by a subscription among the active members of the Society, was placed in the Library; a fine oil-painting, a copy of the portrait of James Logan, has been bought for the Society by the generous contributions of old members, and a considerable addition is now making to the Library from the same source.

The Athenæum and Everett are literary societies of the students.

Alumni Prize Essays.

Prizes are offered by the Alumni Association for English Essays, on alternate years, as follows:

A Prize of one hundred dollars, called the Alumni Prize, for the best Essay by any member of the Association or under-graduate of the College.
And a Prize of fifty dollars, called the Under-Graduates' Prize, for the best Essay by any member of the Senior or Junior Class of the College.

For the academical year 1865–66 the Alumni Prize is offered.

The Essays must be written upon good letter-paper, of the ordinary quarto size, with a margin of not less than one inch at the top and bottom and on each side, and the leaves securely stitched together. No Essay shall exceed in length twenty-five printed pages of the North American Review.

The subjects of the Essays shall be optional with the writers.

Situation of the College.

The College has a remarkably pleasant and healthy location, in the township of Haverford, on the Pennsylvania Railroad, nine miles west of Philadelphia. The buildings are situated on a lawn of fifty acres, tastefully laid out, and, in the number and variety of its trees and shrubbery, unsurpassed by any lawn in the State. All the students board at the College. The supervision of all the arrangements for the comfort of the family is intrusted to the Matron, Edith Collins.

Commencement, Terms, Tuition, &c.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EX-
HIBITION is on the last day of the first term. There are two terms; the first Term, beginning nine weeks after Commencement, and continuing twenty weeks—and the second Term of twenty weeks, beginning three weeks from the end of the first Term, and closing on Commencement day. There are accordingly two vacations—one of nine weeks in the Summer—and one of three weeks in the Winter.

No student is admitted except at the opening of a Term, and never for a period less than one year. A rule of the Corporation directs that "The College shall be open for the admission of the sons of Friends, and of others, who desire their children to be educated in conformity with the principles of our religious Society."

The price of Board and Tuition is $350 per annum, payable as follows:—$175 at the beginning of each Term.
Graduates.

1836.

Thomas F. Cock, M. D., New York, N. Y.

1837.

David C. Murray, New York, N. Y.
Lindley Murray, New York, N. Y.
Benjamin V. Marsh, Rahway, N. J.
Robert B. Parsons, Flushing, N. Y.

1838.


1839.

Frederick Collins, Philadelphia, Pa.
Nereus Mendenhall, M. D., Guilford Co., N. C.
Charles Taber, New Bedford, Mass.
1840.

John R. Winslow, M. D., Hertford, N. C.

1841.

*Richard H. Lawrence, New York, N. Y.
Elias A. White, N. Carolina, N. C.

1842.

Robert Bowne, New York, N. Y.
William S. Hilles, Wilmington, Del.
Edmund Rodman, New Bedford, Mass.
Thomas Rodman, New Bedford, Mass.
Benjamin R. Smith, Haverford, Pa.
Augustus Taber, New Bedford, Mass.
Caleb Winslow, M. D., Hertford, N. C.

1843.

Francis White, N. Carolina, N. C.

1844.

Evan T. Ellis, Philadelphia, Pa.
Robert B. Haines, Germantown, Pa.

* Obiit.
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Place</th>
<th>State</th>
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<tbody>
<tr>
<td>1845</td>
<td>Edmund Crenshaw</td>
<td>Richmond</td>
<td>Va.</td>
</tr>
<tr>
<td>1849</td>
<td>Albert K. Smiley, A. M.</td>
<td>Vassalboro'</td>
<td>Me.</td>
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<tr>
<td></td>
<td>Alfred H. Smiley, A. M.</td>
<td>Vassalboro'</td>
<td>Me.</td>
</tr>
<tr>
<td></td>
<td>Franklin E. Paige, A. M.</td>
<td>Weare</td>
<td>N. H.</td>
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<td></td>
<td>Zaccheus Test, M. D., A. M.</td>
<td>Richmond</td>
<td>Ind.</td>
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<td>James C. Thomas, M. D.</td>
<td>Baltimore</td>
<td>Md.</td>
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<tr>
<td>1852</td>
<td>Dougan Clark, M. D.</td>
<td>New Garden</td>
<td>N. C.</td>
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<tr>
<td></td>
<td>Lewis N. Hopkins</td>
<td>Baltimore</td>
<td>Md.</td>
</tr>
<tr>
<td></td>
<td>William L. Kinsman</td>
<td>Salem</td>
<td>Mass.</td>
</tr>
<tr>
<td>1853</td>
<td>William B. Morgan, A. M.</td>
<td>Raysville</td>
<td>Ind.</td>
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</tbody>
</table>

*Obiit.
1855.
John R. Hubbard, A. M., New Garden, N. C.

1856.

1857.
Jesse S. Cheyney, A. M., Thornbury, Pa.
†Cyrus Mendenhall, Plainfield, Ind.
Stephen Wood, Bedford, N. Y.

1858.
Thomas H. Burgess, Harveysburg, Ohio.
Thomas Clark, Carthage, Ind.
Daniel W. Hunt, Annapolis, Ind.
Samuel T. Satterthwaite, Chesterfield, N. J.
William G. Tyler, Salem, N. J.
Ellis H. Yarnall, Philadelphia, Pa.

1859.
†Richard W. Chase, Burlington, N. J.
§Richard C. Paxson, San Francisco, Cal.
Edward C. Sampson, Manchester, Me.

* Obiit 1859. † Obiit 1858. ‡ Obiit 1862. § Obiit 1864.
George Sampson, Manchester, Me.
Abram Sharples, M. D., Ivy Mills, Pa.
Benjamin H. Smith, Upper Darby, Pa.

1860.

*Lindley M. Clark, Carthage, Ind.
William B. Corbit, M. D., Odessa, Del.
Cyrus Lindley, Monrovia, Ind.
Frederick W. Morris, Philadelphia, Pa.
John W. Pinkham, N. Vassalboro', Me.
Francis Richardson, Philadelphia, Pa.
James Tyson, M. D., A. M., Reading, Pa.
Silas A. Underhill, LL. B., Brooklyn, N. Y.

1861.

William B. Broomall, Media, Pa.
Charles H. Jones, Tamaqua, Pa.
Thomas W. Lamb, Newby Bridge, N. C.
John C. Thomas, Baltimore, Md.

1862.

†Samuel A. Hadley, Osceola, Iowa.

* Obiit 1861. † Obiit 1864.
Horace Williams, M. D.,            Newport,        R. I.
F. Augustus Wood,                  New York,       N. Y.

1863.

Thomas J. Battey,                  Burrillville,  R. I.
Joseph G. Pinkham,                 Manchester,    Me.

1864.

Franklin Angell,                   South Corinth, N. Y.
Howard M. Cooper,                  Camden,        N. J.
Albin Garrett,                     West Chester,  Pa.
Morris Longstreth,                 Germantown,   Pa.
E. Pope Sampson,                   Manchester,    Me.

1865.

John R. Bringhurst,                Wilmington,    Del.
Edward T. Brown,                   Doylestown,    Pa.
David H. Nichols,                  E. Vassalboro', Me.

3*
George Smith, Jr., Upper Darby, Pa.
Allen C. Thomas, Baltimore, Md.
Benjamin A. Vail, Rahway, N. J.
Caleb Cresson Wistar, Philadelphia, Pa.

Whole number of Graduates, 142.

Honorary Degrees.

1858.
Hugh D. Vail, A. M., Plainfield, N. J.

1859.

1860.

1864.
Edward D. Cope, A. M., Caln, Pa.

* Obiit 1865.
REMARKS
UPON THE
Courses of Study and the Discipline.

NATURAL SCIENCE.

In this Department the student is brought, as far as possible, into direct communication with the objects studied; so that nature becomes her own interpreter; her great volume supplying abundant types and analogies to illustrate the teachings of the class-book.

The facilities for this kind of instruction already in possession of the College, are highly creditable, and are annually becoming more ample; the Mineralogical Cabinet, for example, contains 2700 specimens, and the Geological Cabinet about 2500. These collections, together with illustrations by diagrams, models, and maps, and occasional excursions in the neighboring country, enable the Professor to occupy the time allotted to these studies, in a manner at the same time profitable and pleasant to the student, and satisfactory to himself.

The course in Chemistry embraces recitations in Inorganic Chemistry, occupying the greater part of one term, and accompanied with daily exercise in a Laboratory fitted up for this purpose, and well furnished with material and apparatus. Here students are required to conduct with their own hands, under the direction and supervision of the Professor, experiments illustrative of the day's lesson; thus fa-
miliarizing them, by actual practice, with the principles and laws of the science, as well as securing dexterity in manipulation. The study of the Physics of Chemistry, and of Organic Chemistry, occupies a considerable portion of another term, and is accompanied with experiments.

**COMPARATIVE ZOOLOGY AND BOTANY.**

The course of Organic Science embraces a series of lectures by Professor Cope, on these subjects, illustrated by specimens, models, and diagrams. Notes taken on these lectures by the students are criticised, or examination upon the subject of them is held. The series is arranged in the following succession:

- The relations of individual beings as species— as inferior or superior organisms, etc.
- The situation of individuals on the earth as regards climate, food, topographical position, etc.
- Sketch of anatomy in general, followed by a detailed series on human anatomy.
- On resemblances and differences, homologies, etc.
- The peculiar characteristics of the primary types or branches of the animal kingdom.
- The vertebrata in general, and in its primary divisions.
- The peculiarities and successive modifications of systems of organs in these primary groups: first, the osseous, then the circulatory, the nervous, the respiratory, etc.
- The successive appearance of these groups in time.
- The divisions of the primary groups—the families,
genera, etc.; their peculiarities and relations, as living or extinct: their distribution on the earth.

The Articulata, Mollusca, Radiata, and Protozoa, to receive a similar explanation.

A classification of tissues, and a physiological course on their functions, and those of the organs they compose.

Embryology, metamorphoses, and parthenogenesis.

Finally, a short series on Anthropology; the human races, living and extinct.

The characteristics of the primary divisions of plants.

The more detailed anatomy and homologies of the vegetable kingdom.

The botanical series is similar to the zoological, embracing, like it, the histology, physiology, and palæontology of the subject.

As far as possible, the students are exercised in examinations of specimens or models, and determinations from them.

HISTORY.

In the study of History, each recitation is connected with the study of the Civil and Physical Geography embraced in the lesson; the pupil being required to come to his recitation prepared to delineate upon the black-board the region of country to which the lesson refers. Thus, by associating in the mind of the learner what are so intimately connected in nature—the history of a people and their geographi-
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cal position—he is greatly assisted in acquiring, and especially in retaining, a knowledge of both.

PHILOSOPHY AND BELLES-LETTRRES.
The recitations in Psychology, Logic, Rhetoric, and the history of the English language, are conducted by Professor Chase. The effort is made, in presenting the different subjects, to stimulate thought, and train the mind to exactness and vigor. Exercises in the composition of Themes and Forensics are required; and sufficient instruction is given in Declamation to put the student in the right way of self-improvement. The exercises of the Junior exhibition, and of Commencement, are prepared under the supervision of this department.

MORAL AND POLITICAL SCIENCE.
In these subjects, it is the aim of the College to hold up the highest standard of public and private duty, and to illustrate and enforce the lessons by bringing them home to the practices and wants of every-day life.

GREEK AND LATIN CLASSICS.
It is the aim in this department to discipline the mind and cultivate the taste by the study of the great masterpieces of antiquity, and to train and strengthen the reasoning powers by the analysis of words and thoughts required in translation, and particularly by the investigation of the syntax of Greek and Latin, the best practical logic.

In addition to the text-books read in the course, exercises in writing both languages are required, as
well as a careful investigation of the various points of history, antiquities, and classical geography involved in the daily lessons. Stuart's Athens, Canina's Rome, Kiepert's Mural Maps, and various illustrated works on Antiquities and Palæography, are used as aids in instruction.

**MATHEMATICS, PHYSICS, & ASTRONOMY.**

The object of this course is, first, as a part of general education, to exercise the student in the process of exact reasoning, and thus secure to his mind a thorough logical discipline; and secondly, as a part of special education, to prepare him to apply the mathematical and mechanical knowledge he acquires to various practical purposes.

Suitable text-books are used, but the great aim is to teach the *subject*, and not the book. To test the student's knowledge, and also to accustom him to independent and original investigations, questions and problems not found in the text-book are frequently proposed for solution.

A valuable collection of apparatus belongs to the College, and is used in connection with the instruction in Mechanical Philosophy. To this collection such additions are made from time to time as are called for by the progress of science. The students are allowed to perform experiments themselves, under the direction of the Professor.

Peculiar advantages for the study of Astronomy are presented in the well furnished Observatory, of which the members of the Senior class are required
to avail themselves so far as to become practically familiar with the management of the principal instruments.

DRAWING.

Instruction in Perspective and Mechanical Drawing will be given by a competent teacher.

RELIGIOUS INSTRUCTION.

In addition to the daily readings of the Holy Scriptures, recitations in them are required of each student once a week. By exposition, and presenting collateral information, the instructors endeavor to illustrate and enforce the full meaning of the lessons. In the last two years of the course there are recitations weekly in the Greek Testament, except during a part of one term, in which Gurney's Observations are studied. Paley's Evidences and Butler's Analogy form a part of the regular course of study.

DISCIPLINE.

In the discipline of the College, while the officers endeavor to promote habits of order and regularity, they aim to do this in a spirit of kindness and forbearance. Such restraints only are imposed as are deemed necessary to attain this end, or to secure the students from those temptations which are incident to their situation, removed as they are from the protection and preserving influences of home. In maintaining the discipline, private admonition, and appeals to the manliness and good sense of the students, and, above all, to their conscientious feelings and Christian principle, are the means most relied upon.