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THE LIBRARY OF  
HAVERFORD COLLEGE

CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD SCHOOL,

1852-3.

PUBLISHED BY THE STUDENTS.



PHILADELPHIA:  
KITE & WALTON, PRINTERS,  
RANSTEAD PLACE.  
1853.

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Stoughton School  
Stoughton, Mass.



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CATALOGUE

OF THE

Officers and Students

OF



HVERFORD SCHOOL,

1852-3.

PUBLISHED BY THE STUDENTS.

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PHILADELPHIA:  
KITE & WALTON, PRINTERS,  
RANSTEAD PLACE.  
1853.



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WISTAR MORRIS,

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JOSIAH TATUM,  
CHARLES YARNALL,  
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TOWNSEND SHARPLESS,  
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SAMUEL B. PARSONS,  
EDWARD BROWN,  
FRANCIS T. KING,  
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JOSEPH CARTLAND.

MATRON.  
ELIZABETH B. HOPKINS.

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TEACHER OF MATHEMATICS AND NATURAL PHILOSOPHY.

JOSEPH W. ALDRICH,

TEACHER OF THE LATIN AND GREEK LANGUAGES AND ANCIENT  
LITERATURE.

ALFRED H. SMILEY,

TEACHER OF MENTAL AND MORAL PHILOSOPHY, ETC., AND GEOLOGY.

ALBERT K. SMILEY,

TEACHER OF ENGLISH LITERATURE, ETC., AND CHEMISTRY.

FRANKLIN E. PAIGE,

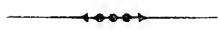
ADJUNCT TEACHER OF MATHEMATICS AND NATURAL PHILOSOPHY.

---

ZACCHEUS TEST AND JONATHAN J. COMFORT,

ASSISTANTS IN THE INTRODUCTORY DEPARTMENT.

# GRADUATES.



## 1836.

NAMES.	RESIDENCE.
Thomas F. Cock, .....	New York City.....
Joseph Walton, Jun., .....	Philadelphia.....

## 1837.

William C. Longstreth, .....	Philadelphia.....
David C. Murray, .....	New York City.....
Lindley Murray, Jun., .....	New York City.....
Benjamin V. Marsh, .....	Rahway, N. J. ....
Joseph L. Pennock, .....	Philadelphia.....
Robert B. Parsons, .....	Flushing, N. Y. ....
Charles L. Sharpless, .....	Philadelphia.....
Lloyd P. Smith, . . . . .	Philadelphia.....
B. Wyatt Wistar, .....	Philadelphia.....

## 1838.

James V. Emlen, .....	Philadelphia.....
John Elliott, Jun., .....	Philadelphia. ....

## 1839.

Frederick Collins, .....	Philadelphia.....
Thomas P. Cope, Jun., .....	Philadelphia.....
Henry Hartshorne, .....	Philadelphia.....
Nereus Mendenhall, .....	Guilford Co., N. C. ....
Richard Randolph, Jun., .....	Philadelphia.....
Charles Taber, .....	New Bedford, Mass. ....



## 1840.

NAMES.	RESIDENCE.
Joseph Howell, Jun.,	Philadelphia.
Anthony M. Kimber,	Philadelphia.
Henry H. G. Sharpless,	Philadelphia.
John R. Winslow,	Hertford, N. C.

## 1841.

Richard H. Lawrence,	New York City.
James P. Perot,	Philadelphia.
Elias A. White,	North Carolina.

## 1842.

Robert Bowne,	New York City.
Richard Cadbury,	Philadelphia.
William S. Hilles,	Wilmington, Del.
Thomas Kimber, Jun.,	Philadelphia.
Edmund Rodman,	New Bedford, Mass.
Thomas Rodman,	New Bedford, Mass.
Benjamin R. Smith,	Haverford, Pa.
Augustus Taber,	New Bedford, Mass.
Caleb Winslow,	Hertford, N. C.

## 1843.

Robert B. Howland,	New Bedford, Mass.
Francis White,	North Carolina.
William D. Stroud,	Philadelphia.

## 1844.

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

## 1845.

Edmund Crenshaw,	Richmond, Va.
Robert Pearsall,	Philadelphia.

## 1849.

NAMES.	RESIDENCE.
Albert K. Smiley, .....	Vassalborough, Me. ....
Alfred H. Smiley, .....	Vassalborough, Me. ....

## 1851.

Joseph L. Bailey, .....	Berks Co., Pa. ....
Philip C. Garrett, .....	Philadelphia. ....
Thomas J. Levick, .....	Philadelphia. ....
Franklin E. Paige, .....	Weare, N. H. ....
Zaccheus Test, .....	Richmond, Ind. ....
James C. Thomas, .....	Baltimore. ....
Richard Wood, .....	Philadelphia. ....

## 1852.

Dougan Clark, .....	New Garden, N. C. ....
Lewis N. Hopkins, .....	Baltimore. ....
William L. Kinsman, .....	Salem, Mass. ....
William E. Newhall, .....	Philadelphia. ....
James Whitall, .....	Philadelphia. ....

---

## UNDER GRADUATES.

## SENIORS.

William B. Morgan, .....	Raysville, Ind. ....
William H. Pancoast, .....	Philadelphia. ....

## JUNIORS.

Frederick Arthur, Jun., .....	Nantucket, Mass. ....
John W. Cadbury, .....	Philadelphia. ....
James W. Deacon, .....	Mt. Holly, N. J. ....
John B. Garrett, .....	Philadelphia. ....
David Scull, Jun., .....	Philadelphia. ....

## SECOND JUNIORS.

NAMES.	RESIDENCE.
Samuel Bettle,.....	Philadelphia.....
J. Howell Brown,.....	Philadelphia.....
Richard P. Hallowell,.....	Philadelphia.....
Ezekiel H. Hanson,.....	Philadelphia.....
Andrew M. Howland,.....	New Bedford, Mass. ....
John R. Hubbard,.....	New Garden, N. C. ....
James P. Jones,.....	China, Me. ....
Stephen Morris,.....	Philadelphia.....
John V. Painter,.....	Westchester, Pa. ....
John F. Rowell,.....	Loudon, N. H. ....
Joseph P. Taylor,.....	Fairfield, Me. ....
Francis Walton,.....	Philadelphia.....

## THIRD JUNIORS.

Bartholomew W. Beesley,.....	Philadelphia.....
Joel Cadbury, Jun.,.....	Philadelphia.....
John Cooper, Jun.,.....	Philadelphia.....
W. Harrington Field,.....	Philadelphia.....
Gerard Hopkins,.....	Baltimore. ....
Townsend S. Hunn,.....	Philadelphia.....
John B. Mellor,.....	Philadelphia.....
William C. Taber, Jun.,.....	New Bedford, Mass. ....
Abram S. Valentine,.....	Bellefonte, Pa. ....
James M. Walton,.....	Philadelphia.....
Edward R. Wood,.....	Philadeiphia.....

## STUDENTS PURSUING A PARTIAL COURSE.

L. Murray Ferris,.....	Newburg, N. Y. ....
Isaac H. Hibberd,.....	Darby, Pa. ....
Thomas W. Ladd,.....	Smithfield, Ohio.....

NAMES.	RESIDENCE.
William P. Osborne,.....	Dover, N. H.....
Reuben B. Riddick,.....	Hertford, N. C.....
Joseph H. Riddick,.....	Hertford, N. C.....
George Valentine,.....	Bellefonte, Pa.....

## INTRODUCTORY.

Thomas W. Acton,.....	Salem, N. J.....
James C. Bradford,.....	Plymouth, Pa.....
Francis M. Brooke,.....	Media, Pa.....
Lewis T. Brooke,.....	Radnor, Pa.....
Samuel Canby,.....	Wilmington, Del.....
Lehman A. Cooper,.....	Philadelphia.....
J. Clarence Cresson,.....	Plymouth, Pa.....
William M. Dawson,.....	Philadelphia.....
Edwin L. Dickinson,.....	Philadelphia.....
Joshua P. Eyre, Jun.,.....	Chester, Pa.....
Elihu J. Farmer,.....	Salineville, Ohio.....
Henry Fothergill,.....	Wilmington, Del.....
Norwood P. Hallowell,.....	Philadelphia.....
Joseph L. Hoag,.....	Wolfeborough, N. H.....
Samuel Hopkins,.....	Baltimore.....
John M. Leedom,.....	Germantown, Pa.....
Enoch E. Lewis,.....	Westchester, Pa.....
John Livezey,.....	Germantown, Pa.....
Joseph R. Livezey,.....	Germantown, Pa.....
William H. Miller,.....	Providence, Pa.....
Joseph T. Newbold,.....	Philadelphia.....
William W. Potts,.....	Norristown, Pa.....
Francis Richardson,.....	Philadelphia.....
Nathan Sellers,.....	Philadelphia.....
Evan Thomas,.....	Baltimore.....
Benjamin Tucker,.....	New Bedford, Mass.....
Isaac M. Walton,.....	New York City.....
William C. Wood,.....	Haddonfield, N. J.....

# COURSE OF STUDY.

## INTRODUCTORY CLASSES.

Arithmetic.	
Algebra, . . . . .	<i>Alsop's First Lessons.</i>
Elements of Natural Philosophy.	
Latin Lessons, . . . . .	<i>Andrews and Stoddard.</i>
Viri Romæ, . . . . .	" "
Cæsar, . . . . .	" "
Greek Grammar and Lessons, . . . . .	<i>Sophocles.</i>
Geography, . . . . .	<i>Smith or Olney.</i>
English Grammar, . . . . .	<i>Brown.</i>
Elements of History.	
English Composition, . . . . .	<i>Parker.</i>

## THIRD JUNIOR CLASS.

### MATHEMATICS.

Algebra continued, . . . . .	<i>Alsop.</i>
Geometry, . . . . .	<i>First Six Books of Euclid.</i>
Surveying, . . . . .	<i>Gummeré, through Ch. 3.</i>

### LATIN AND GREEK LANGUAGES.

Virgil, . . . . .	<i>Schmidt or Gould.</i>
First Latin Book, . . . . .	<i>Arnold.</i>
Greek Testament, . . . . .	<i>Greenfield.</i>
Xenophon's Anabasis, . . . . .	<i>Owen.</i>
or	
Herodotus commenced.	

## ENGLISH LITERATURE, ETC.

Chemistry, . . . . .	<i>Stockhardt.</i>
Histories of Greece, Rome, France, England, and America, . . . . .	<i>Society for the Diffusion of Christian Knowledge.</i>
Geology commenced, . . . . .	<i>Iyell.</i>
English Composition, continued.	

## SECOND JUNIOR CLASS.

## MATHEMATICS.

Surveying completed.	
Geometry of Planes.	
Plane and Spherical Trigonometry, . . . . .	<i>Lewis.</i>
Descriptive Astronomy, . . . . .	<i>Herschel.</i>

## LATIN AND GREEK LANGUAGES.

Cicero's Orations, . . . . .	<i>Folsom.</i>
Livy, . . . . .	<i>Lincoln.</i>
Anabasis, or Herodotus completed.	
Iliad or Odyssey, . . . . .	<i>Homer.</i>
Latin and Greek Prose Composition.	
Antiquities.	

## ENGLISH LITERATURE, ETC.

Geology, continued.	
Chemistry, . . . . .	<i>Fownes.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>

## JUNIOR CLASS.

## MATHEMATICS.

Natural Philosophy, . . . . .	<i>Olmstead.</i>
Analytical Geometry, . . . . .	<i>Loomis or Davies.</i>
Mechanics, . . . . .	<i>Olmstead.</i>
Optics.	

## LATIN AND GREEK LANGUAGES.

Horace, . . . . .	<i>Lincoln.</i>
Tacitus, . . . . .	<i>Tyler.</i>
Sophocles or Euripides.	
Demosthenes.	
Latin and Greek Composition, continued,	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Rhetoric, . . . . .	<i>Whately.</i>
Mental Philosophy.	
Commentaries on the Constitution, . . . . .	<i>Story.</i>
Logic, . . . . .	<i>Whately.</i>

## SENIOR CLASS.

## MATHEMATICS.

Differential and Integral Calculus, . . . . .	<i>Loomis.</i>
Astronomy, . . . . .	<i>Gummeré.</i>

## LATIN AND GREEK LANGUAGES.

Juvenal, or Equivalent, . . . . .	<i>Leverett.</i>
Thucydides, . . . . .	<i>Owen.</i>
Latin and Greek Composition, completed,	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Political Economy, . . . . .	<i>Vethake or Say.</i>
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Moral Philosophy, . . . . .	<i>Dymond.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>

## Examinations.

---

Before entering the Junior Class, each Student is subjected to a close written examination on the studies of the Third and Second Junior years; and a similar examination occurs at the completion of the Course, on the studies of the Junior and Senior years. The examinations, occupying a period of about three weeks, are conducted on the following plan.

The members of the class under Examination, are arranged in a room by themselves, and each student is furnished with a set of questions, (the same to each), upon some book in the course, which he is required to answer in writing, without consulting any person or book. The time of writing varies from two to five hours, the latter being the limit allowed. The questions are upon topics and passages selected indiscriminately throughout the text-books, and are calculated to test the student's knowledge of the subject.

To each question a certain number is affixed, varying according to its importance and difficulty. If a student answers it correctly, he receives credit for the full number. If an error is committed, a deduction is made in the number received, proportioned to its importance. A student must gain credit for at least one half of all the numbers in each study of the course, and also for two thirds of all the numbers in each Department, before the Diploma of the Institution can be awarded. The Diplomas are thus designed to be honorary distinctions, corresponding rather to the Class-honors than to the Diplomas which are usually awarded in Colleges.



## Object and Situation of the School.

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About the year 1830, a strong interest was manifested by Friends in New York, Philadelphia and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object,—Subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833.

The Institution has a remarkably pleasant and healthy location on the Columbia Rail Road, 9 miles West of Philadelphia. The building is situated in the midst of a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. Connected with this is a green-house accessible to the members of the School. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 65. Gas-works have lately been put up, and gas introduced throughout the buildings. By the exertions of the students, a Gymnasium has recently been built and furnished, at an expense of \$1300.

## Observatory.

---

With a view of giving the students in the higher classes an opportunity of becoming acquainted with the construction and use of fine Astronomical instruments, an Observatory has recently been erected near the School. The instruments when all mounted, will be, an Equatorial Telescope of 11 feet focus, and  $8\frac{1}{4}$  inches aperture, made by Henry Fitz of New York,—a Meridian Transit Circle, by William J. Young, of 5 feet focus and 4 inches aperture, with a graduated Circle at each end of the axis, of 26 inches diameter—a Portable Transit Instrument by Dollond, mounted in the Prime Vertical, and an excellent Siderial Clock by Harpur of Philadelphia, connected with a magnetic Register and Spring Governor by Bond and Son, of Cambridge Observatory—besides several small Astronomical instruments. The cost of the Telescope was \$2100, which was raised by subscription among the friends of the Institution. The clock cost \$400 and is the gift of Thomas P. Cope. The total estimated cost of the Observatory and Instruments is about \$7000.

## Library, Apparatus, Etc.,

---

The School is provided with a small but well-selected Library of 2100 Vols. It has also a large Cabinet of valuable Minerals and a set of Philosophical and Chemical Apparatus. Arrangements have recently been made by the Managers, and the necessary funds raised, to build a new Lecture Room, Laboratory, etc., and to complete the collection of Apparatus, both Chemical and Philosophical. In the new Laboratory, it is intended to fit up a room especially for the use of such Students as may be desirous of performing experiments themselves, and of becoming practically acquainted with Chemical Manipulations.

---

## The Loganian Society.

This Society, established by the Officers and Students of the School in 1834, for their improvement in literary and scientific pursuits, has been in successful operation to this time. The exercises are Discussions, Declamations, Original Essays, etc. It also publishes a paper monthly. It has in its possession a library of 450 volumes, and a museum of curiosities. It has also a flower-garden, and a carpenter's shop, furnished with a lathe and a complete set of carpenters' tools.

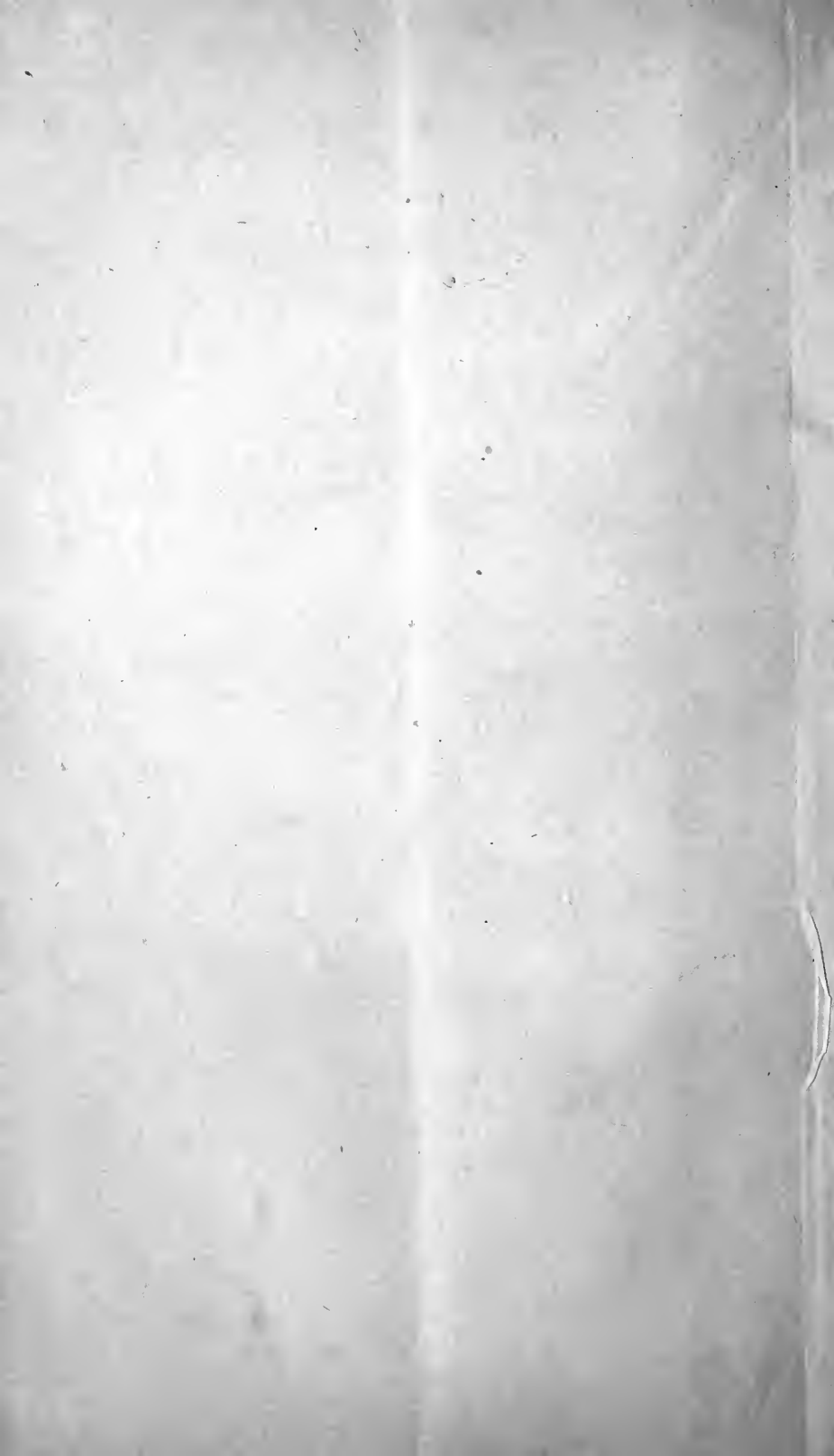
## Terms, Tuition, Etc.

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There are two terms in the year; the Winter Term of six months, commencing on the second Fourth-day in the Tenth Month; and the Summer Term of four months, commencing on the second Fourth-day in the Fifth month. Two vacations of four weeks each occur, one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Session, and never for a period less than one year. A rule of the Managers directs that "The school shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society."

The price for Board and Tuition is \$200 per annum, payable as follows, viz. \$60 at the opening of the Winter Term; \$60 at the middle of it, and \$80 at the opening of the Summer Term.





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OF THE

Officers and Students

OF

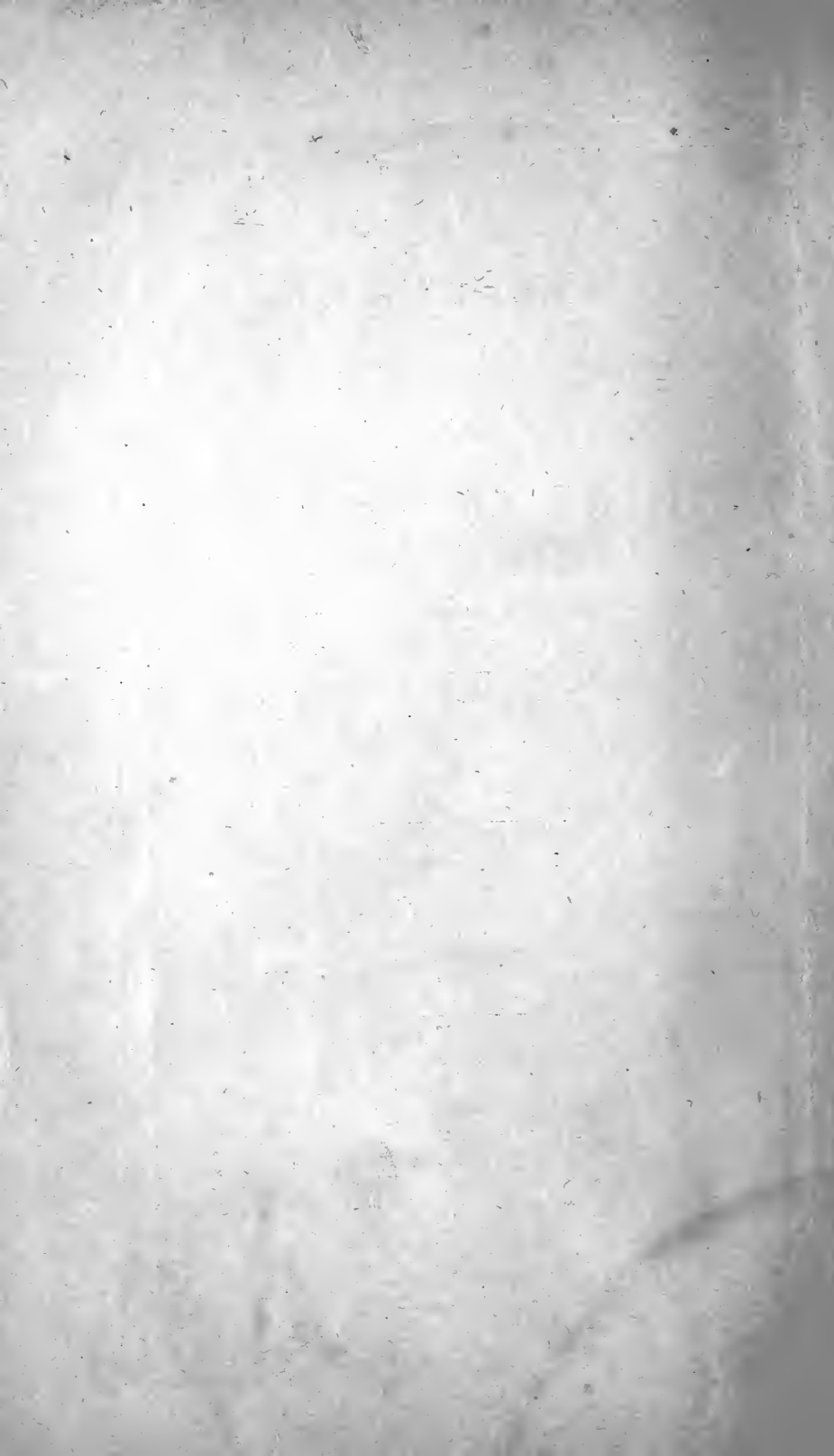
HVERFORD SCHOOL.

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1853-4.

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KITE & WALTON, PRINTERS,  
RANSTEAD PLACE.  
1854.









Methodist Episcopal Church  
St. Louis School

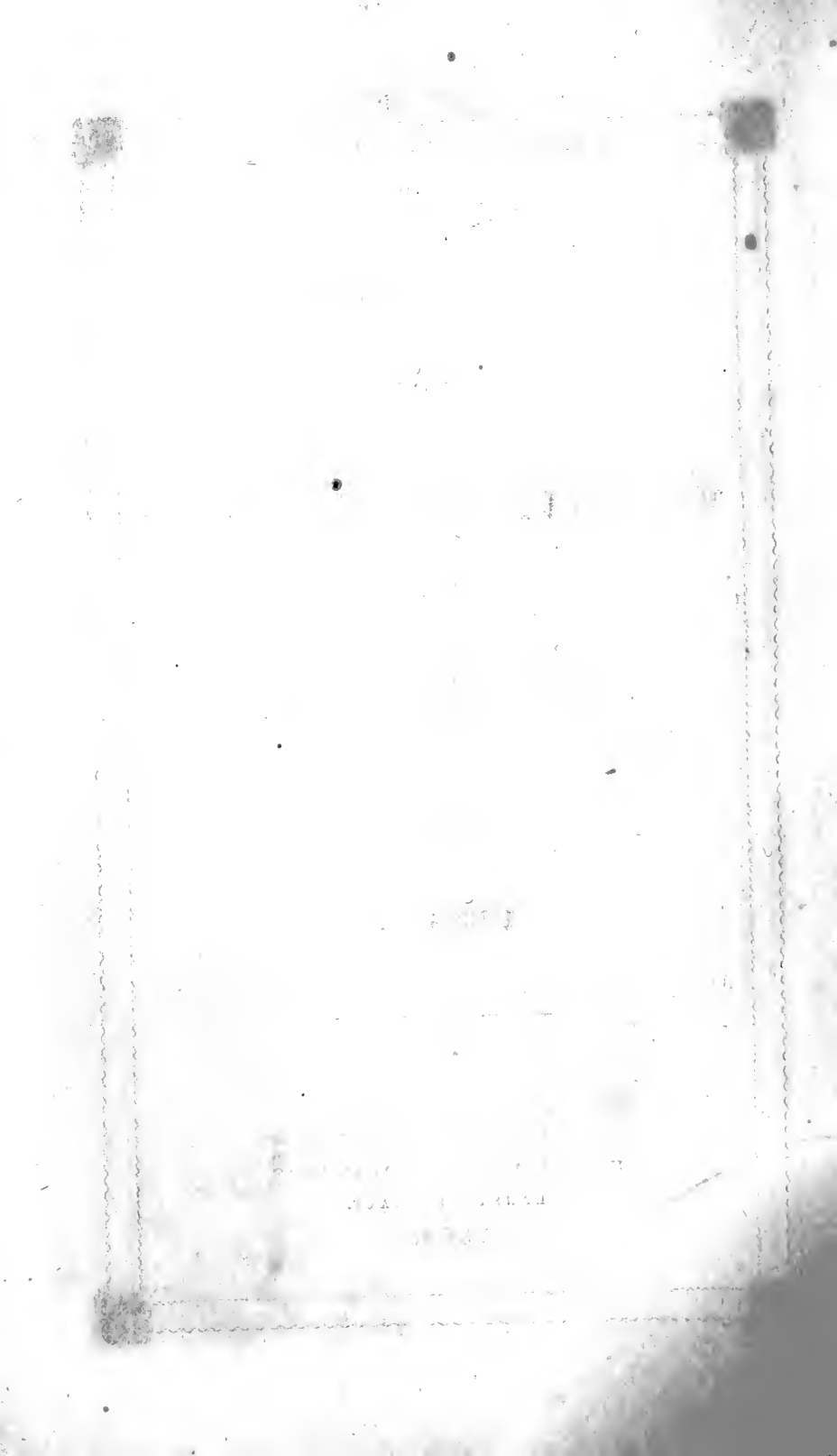
A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD SCHOOL.

---

1853-4.

---

PHILADELPHIA:  
KITE & WALTON, PRINTERS,  
BANSTEAD PLACE.  
1854.



## BOARD OF MANAGERS.

---

SECRETARY.

CHARLES YARNALL.

TREASURER.

ISAIAH HACKER.

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EDWARD YARNALL,  
SAMUEL RHOADS,  
MARMADUKE C. COPE,  
JOHN M. WHITALL  
THEOPHILUS E. BEESLEY, M.D.,  
JOEL CADBURY,  
RICHARD H. THOMAS, M. D.,  
GEORGE HOWLAND, JR.,  
ISAIAH HACKER,  
WISTAR MORRIS,  
JOHN FARNUM,

CHARLES YARNALL,  
JEREMIAH HACKER,  
TOWNSEND SHARPLESS,  
ANTHONY M. KIMBER,  
ROBERT P. SMITH,  
SAMUEL HILLES,  
SAMUEL B. PARSONS,  
FRANCIS T. KING,  
SAMUEL F. TROTH,  
SAMUEL ALLINSON, JR.,  
T. WISTAR BROWN.

SUPERINTENDENT.  
JONATHAN RICHARDS.

MATRON.  
MARGARET C. RICHARDS.

## BOARD OF INSTRUCTORS.

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HUGH D. VAIL,  
JOSEPH G. HARLAN,

TEACHERS OF MATHEMATICS, NATURAL PHILOSOPHY AND ASTRONOMY.

PAUL SWIFT, M. D.,

TEACHER OF ENGLISH LITERATURE, MORAL PHILOSOPHY AND CHEMISTRY.

WILLIAM AUGUSTUS REYNOLDS, B. A.,

TEACHER OF THE LATIN AND GREEK LANGUAGES AND ANCIENT  
LITERATURE.

---

CYRUS MENDENHALL,

ASSISTANT IN THE INTRODUCTORY DEPARTMENT.

# GRADUATES.

1836.

NAMES.

RESIDENCE.

Thomas F. Cock,.....New York City.....  
Joseph Walton, Jun.,.....Philadelphia.....

1837.

William C. Longstreth,.....Philadelphia.....  
David C. Murray,.....New York City.....  
Lindlay Murray, Jun.,.....New York City.....  
Benjamin V. Marsh,.....Rahway, N. J.....  
Joseph L. Pennock,.....Philadelphia.....  
Robert B. Parsons,.....Flushing, N. Y.....  
Charles L. Sharpless,.....Philadelphia.....  
Lloyd P. Smith,.....Philadelphia.....  
B. Wyatt Wistar,.....Philadelphia.....

1838.

James V. Emlen,.....Philadelphia.....  
John Elliott, Jun.,.....Philadelphia.....

1839.

Frederick Collins,.....Philadelphia.....  
Thomas P. Cope, Jun.,.....Philadelphia.....  
Henry Hartshorne,.....Philadelphia.....  
Nereus Mendenhall,.....Guilford Co., N. C.....  
Richard Randolph, Jun.,.....Philadelphia.....  
Charles Taber,.....New Bedford, Mass.....



## 1840.

NAMES.	RESIDENCE.
Joseph Howell, Jun.,.....	Philadelphia.....
Anthony M. Kimber,.....	Philadelphia.....
Henry H. G. Sharpless,.....	Philadelphia.....
John R. Winslow,.....	Hertford, N. C.....

## 1841.

Richard H. Lawrence,.....	New York City.....
James P. Perot,.....	Philadelphia.....
Elias A. White,.....	North Carolina.....

## 1842.

Robert Bowne,.....	New York City.....
Richard Cadbury,.....	Philadelphia.....
William S. Hilles,.....	Wilmington, Del.....
Thomas Kimber, Jun.,.....	Philadelphia.....
James J. Levick,.....	Philadelphia.....
Edmund Rodman,.....	New Bedford, Mass.....
Thomas Rodman,.....	New Bedford, Mass.....
Benjamin R. Smith,.....	Haverford, Pa.....
Augustus Taber,.....	New Bedford, Mass.....
Caleb Winslow,.....	Hertford, N. C.....

## 1843.

Robert B. Howland,.....	New Bedford, Mass.....
Francis White,.....	North Carolina.....
William D. Stroud,.....	Philadelphia.....

## 1844.

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

## 1845.

Edmund Crenshaw,.....	Richmond, Va.....
Robert Pearsall,.....	Philadelphia.....

## 1849.

NAMES.	RESIDENCE.
Albert K. Smiley,.....	Vassalborough, Me.....
Alfred H. Smiley,.....	Vassalborough, Me.....

## 1851.

Joseph L. Bailey,.....	Berks Co., Pa.....
Philip C. Garrett,.....	Philadelphia.....
Thomas J. Levick,.....	Philadelphia.....
Franklin E. Paige,.....	Weare, N. H.....
Zaccheus Test,.....	Richmond, Ind.....
James C. Thomas,....	Baltimore.....
Richard Wood,.....	Philadelphia.....

## 1852.

Dougan Clark,.....	New Garden, N. C.....
Lewis N. Hopkins,.....	Baltimore.....
William L. Kinsman,.....	Salem, Mass.....
William E. Newhall,.....	Philadelphia.....
James Whitall.....	Philadelphia.....

## 1853.

William B. Morgan,.....	Raysville, Ind.....
William H. Pancoast,.....	Philadelphia.....

---

## UNDER GRADUATES.

### SENIORS.

Frederick Arthur, Jun.,.....	Nantucket, Mass.....
John W. Cadbury,.....	Philadelphia.....
John B. Garrett,.....	Philadelphia.....
David Scull,.....	Philadelphia.....

## STUDENTS PURSUING THE STUDIES OF THE JUNIOR CLASS.

NAMES.	RESIDENCE.
John R. Hubbard,	New Garden, N. C.
Samuel Bettle,	Philadelphia

### SECOND JUNIORS.

J. Howell Brown,	Philadelphia
Bartholomew W. Beesley,	Philadelphia
Jonathan J. Comfort,	Tecumseh, Mich.
Joel Cadbury, Jun.,	Philadelphia
John Cooper,	Philadelphia
W. Harrington Field,	Philadelphia
Gerard Hopkins,	Baltimore
John B. Mellor,	Philadelphia
William C. Taber, Jun.,	New Bedford, Mass.
George Valentine,	Bellefonte, Pa.
Edward R. Wood,	Philadelphia
James M. Walton,	Philadelphia

### THIRD JUNIORS.

Lewis T. Brooke,	Radnor, Pa.
Jesse S. Cheyney,	Thornbury, Pa.
Edwin L. Dickinson,	Philadelphia
Elihu J. Farmer,	Salineville, O.
Samuel Hopkins,	Baltimore
Norwood P. Hallowell,	Philadelphia
James C. Iddings,	Philadelphia
John W. Street,	Salem, Ohio
David Street,	Salem, Ohio
Abram Valentine,	Bellefonte, Pa.
William T. Valentine,	Bellefonte, Pa.
Thomas Wistar,	Philadelphia
Wm. Wilberforce Wistar,	Philadelphia
Ellis H. Yarnall,	Philadelphia

## STUDENTS PURSUING A PARTIAL COURSE.

NAMES.	RESIDENCE.
Francis M. Brooke,.....	Media, Pa.....
Stephen G. Collins,.....	Philadelphia.....
William H. Crew,.....	Richmond, Va.....
L. Murray Ferris, Jun.,.....	Newburgh, N. Y.....
Hiram Hadley,.....	Sligo, Ohio.....
Cyrus Mendenhall,.....	Thorntown, Ind.....
Barton F. Thorn,.....	Crosswicks, N. J.....

## INTRODUCTORY CLASS.

Thomas W. Acton,.....	Salem, N. J.....
Lehman A. Cooper,.....	Philadelphia.....
Samuel Crowe,.....	Paoli, Ind.....
James E. Carmalt,.....	Susquehannah Co., Pa.....
William M. Dawson,.....	Philadelphia.....
Joshua P. Eyre, Jun.,.....	Chester, Pa.....
George H. Hopkins,.....	Haddonfield, N. J.....
Joseph E. Hickman,.....	Willistown, Pa.....
Ephraim Hopkins,.....	Darlington, Md.....
Burge R. Lewis,.....	Philadelphia.....
John Livezey,.....	Germantown, Pa.....
Joseph R. Livezey,.....	Germantown, Pa.....
William Mellor,.....	Philadelphia.....
William H. Miller,.....	Providence, Pa.....
Joseph T. Newbold,.....	Philadelphia.....
Richard C. Paxson,.....	Philadelphia.....
William W. Potts,.....	Norristown, Pa.....
Alexander K. Pedrick,.....	Germantown, Pa.....
Nathan Sellers,.....	Upper Darby, Pa.....
Norman Tevis,.....	Philadelphia.....
Edwin L. Tevis,.....	Philadelphia.....
Edgar L. Thomson,.....	Philadelphia.....

## COURSE OF STUDY.

### INTRODUCTORY CLASSES.

Arithmetic.	
Algebra, . . . . .	<i>Alsop's First Lessons.</i>
Elements of Natural Philosophy.	
Latin Reader, . . . . .	<i>Andrews.</i>
Viri Romæ, . . . . .	"
Cæsar, . . . . .	"
Greek Grammar, . . . . .	<i>Sophocles.</i>
Greek Reader, . . . . .	<i>Jacobs.</i>
Geography, . . . . .	<i>Smith or Olney.</i>
English Grammar, . . . . .	<i>Brown.</i>
Elements of History.	
English Composition, . . . . .	<i>Parker.</i>

### THIRD JUNIOR CLASS.

#### MATHEMATICS.

Algebra continued, . . . . .	<i>Alsop.</i>
Geometry, . . . . .	<i>First Six Books of Euclid.</i>
Surveying, . . . . .	<i>Gummeré, through Ch. 3.</i>

#### LATIN AND GREEK LANGUAGES.

Virgil, . . . . .	<i>Schmidt or Cooper.</i>
Greek Testament, . . . . .	<i>Greenfield.</i>
Xenophon's Anabasis, . . . . .	<i>Owen.</i>
or	
Herodotus commenced.	

## ENGLISH LITERATURE, ETC.

Chemistry, . . . . .	<i>Stockhardt.</i>
Outlines of History, . . . . .	<i>Weber.</i>
Geology commenced, . . . . .	<i>Lyell.</i>
English Composition, continued.	

## SECOND JUNIOR CLASS.

## MATHEMATICS.

Surveying completed.	
Geometry of Planes.	
Plane and Spherical Trigonometry, . . . . .	<i>Lewis.</i>
Descriptive Astronomy, to Part II., . . . . .	<i>Herschel.</i>

## LATIN AND GREEK LANGUAGES.

Cicero's Orations, . . . . .	<i>Folsom.</i>
Livy, . . . . .	<i>Lincoln.</i>
Anabasis, or Herodotus completed.	
Iliad or Odyssey,	
Latin and Greek Prose Composition, . . . . .	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Physical Geography.	
Geology continued.	
Chemistry, . . . . .	<i>Fownes.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>

## JUNIOR CLASS.

## MATHEMATICS.

Descriptive Astronomy, continued,	<i>Herschel.</i>
Natural Philosophy, . . . . .	<i>Olmstead.</i>
Analytical Geometry, . . . . .	<i>Loomis or Davies.</i>
Mechanics, . . . . .	<i>Olmstead.</i>
Optics.	

## LATIN AND GREEK LANGUAGES.

Horace, . . . . .	<i>Lincoln.</i>
Tacitus, . . . . .	<i>Tyler or Kingsley.</i>
Sophocles or Euripides, . . . . .	<i>Woolsey.</i>
Demosthenes.	
Latin and Greek Composition, continued,	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Rhetoric, . . . . .	<i>Whately.</i>
Mental Philosophy.	
Commentaries on the Constitution, . . . . .	<i>Story.</i>
Logic, . . . . .	<i>Whately.</i>

## SENIOR CLASS.

## MATHEMATICS.

Differential and Integral Calculus, . . . . .	<i>Loomis.</i>
Astronomy, . . . . .	<i>Gummeré.</i>

## LATIN AND GREEK LANGUAGES.

Juvenal, or Equivalent, . . . . .	<i>Leverett.</i>
Thucydides, . . . . .	<i>Owen.</i>
Latin and Greek Composition, completed,	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Political Economy, . . . . .	<i>Vethake or Say.</i>
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Moral Philosophy, . . . . .	<i>Dymond.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>

## Examinations.

---

Before entering the Junior Class, each Student is subjected to a close written examination on the studies of the Third and Second Junior years; and a similar examination occurs at the completion of the Course, on the studies of the Junior and Senior years. The examinations, occupying a period of about three weeks, are conducted on the following plan.

The members of the class under Examination, are placed in a room by themselves, and each student is furnished with a set of questions, (the same to each), upon some book in the course, which he is required to answer in writing, without consulting any person or book. The time of writing varies from two to five hours, the latter being the limit allowed. The questions are upon topics and passages selected indiscriminately throughout the text-books, and are calculated to test the student's knowledge of the subject.

To each question a certain number is affixed, varying according to its importance and difficulty. If a student answers it correctly, he receives credit for the full number. If an error is committed, a deduction is made in the number received, proportioned to its importance. A student must gain credit for at least one half of all the numbers in each study of the course, and also for two thirds of all the numbers in each Department, before the Diploma of the Institution can be awarded. The Diplomas are thus designed to be honorary distinctions, corresponding rather to the Class-honors than to the Diplomas which are usually awarded in Colleges.



## Object and Situation of the School.

---

About the year 1830, a strong interest was manifested by Friends in New York, Philadelphia and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object,—Subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833.

The Institution has a remarkably pleasant and healthy location on the Columbia Rail Road, 9 miles West of Philadelphia. The building is situated in the midst of a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. Connected with this is a green-house accessible to the members of the School. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 65. Gas-works have lately been put up, and gas introduced throughout the buildings. By the exertions of the students, a Gymnasium has recently been built and furnished, at an expense of \$1300.

## Observatory.

---

With the view of furnishing to the students in the higher classes the means of becoming familiar with the construction and use of astronomical instruments, and of acquiring from actual observation a practical acquaintance with astronomy, a handsome Observatory has recently been erected near the School. The building is of stone, and consists of a central part 20 feet square, and of about the same height, surmounted by a revolving dome 19 feet in diameter, and two wings, each about 15 feet square. In the west wing is the Transit room, and in the east one, a room for the observer.

The Instruments now in the Observatory are an Equatorial Telescope, a Meridian Transit Circle, a Sidereal Clock, a Magnetic Register for recording time, and several other smaller astronomical instruments. The Equatorial Instrument, by Fitz, is the largest in the State of Pennsylvania, and next in size to that of the National Observatory at Washington, being 11 feet long, with an achromatic object glass  $8\frac{1}{4}$  inches in diameter. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which is supported by a large stone pier, passing through, though entirely detached from, the floors of the building. By means of clock work, the telescope can be kept as steadily pointing towards the celestial object upon which it is turned, as though the object itself were stationary.

The Transit Instrument, which is of the German form, having the circles at the extremities of the axis, was made by Wm. J. Young, of Philadelphia. It has a telescope of 5 feet focus and

4 inches aperture ; and two circles 26 inches in diameter, one of which is divided to read to two seconds of arc ; the other is used only as a finder. Each end of the axis is supported on a permanent marble pier 5 feet high, having its foundations on solid mason work unconnected with the building. In the same room with the Transit Instrument, is an excellent sidereal clock, the gift of Thomas P. Cope. It is made with a glass pendulum, and a mercurial compensation, and is firmly secured to a marble slab built in the wall of the room. Connected with the clock there is a Magnetic Register, by Bond of the Cambridge Observatory, which is a chronographic contrivance, by which, during observations, every second of time is recorded upon a moving sheet of paper : it is so arranged that the observer, by simply touching a spring, can mark the exact instant of the transit of a star across each wire of the instrument, and thus obtain its meridian passage to within  $\frac{1}{50}$ th of a single second.

The cost of the Observatory was \$2500 ; and that of the Instruments in it about \$4500.

It is designed to connect it, by means of the Telegraph, with the observatories of Cambridge or Washington, so that observations made in one may be instantaneously recorded in the other, and thus the exact difference of time or of longitude of the two observatories obtained.

## Library.

---

The Library belonging to the School has been selected with great care. The number of volumes is at present 2100, additions to which are frequently made. Besides a good selection of popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, and a complete set of Valpy's Latin Classics, with the most approved Lexicons, &c.; and will shortly be enriched with many of the best German commentaries on the Greek and Latin Classics.

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## Philosophical Apparatus.

A large and expensive apparatus has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires and the funds of the Institution permit.

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## Lecture and Apparatus Rooms.

A new building has recently been erected at a great expense, by the Managers, in the second story of which is a beautiful Lecture Room, admirably lighted and ventilated—and connected with it are the Apparatus Rooms, greatly facilitating the preparation and exhibition of Scientific experiments.

## Chemical Laboratory.

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In the rear of the Apparatus Rooms, is a large and thoroughly ventilated Laboratory, in which the Students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the teacher of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

---

## Cabinet of Minerals.

The extensive collection of the late Dr. Troost occupies the cases in the Collection Room. An interesting addition to it has recently been made in a complete suite of Minerals illustrating the Geology of New York, prepared for the Institution by the late Lardner Vanuxem.

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## The Loganian Society.

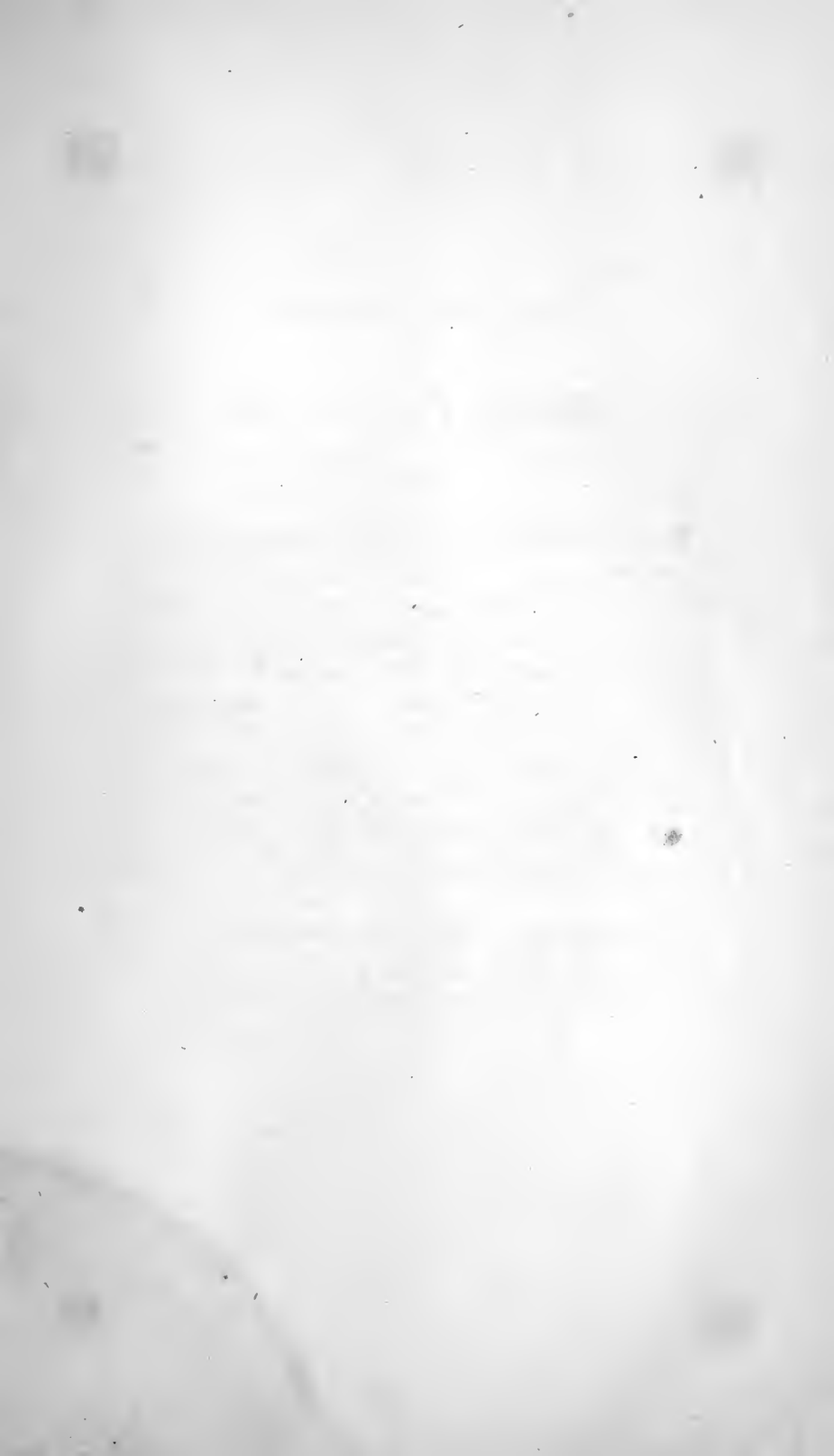
This Society, established by the Officers and Students of the School in 1834, for their improvement in literary and scientific pursuits, has been in successful operation to this time. The exercises are Discussions, Declamations, Original Essays, etc. It also publishes a manuscript paper monthly. It has in its possession a library of about 500 volumes, and a museum of curiosities. It has also a flower-garden, and a carpenter's shop, furnished with a lathe and a complete set of carpenters' tools.

## Terms, Tuition, Etc.

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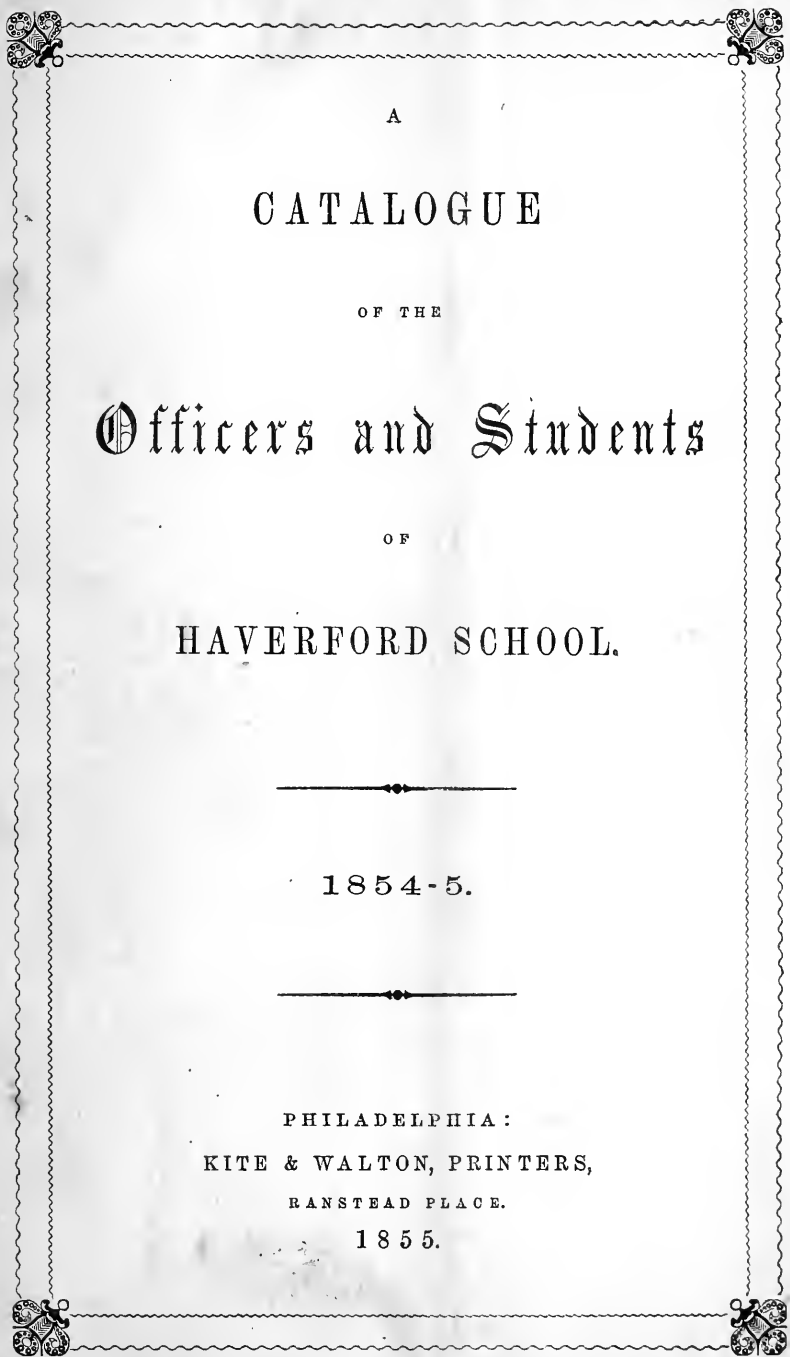
There are two terms in the year; the Winter Term of six months, commencing on the second Fourth-day in the Tenth Month; and the Summer Term of four months, commencing on the second Fourth-day in the Fifth month. Two vacations of four weeks each occur, one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Session, and never for a period less than one year. A rule of the Association directs that "The school shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society."

The price for Board and Tuition is \$200 per annum, payable as follows, viz. \$60 at the opening of the Winter Term; \$60 at the middle of it, and \$80 at the opening of the Summer Term.









A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD SCHOOL.

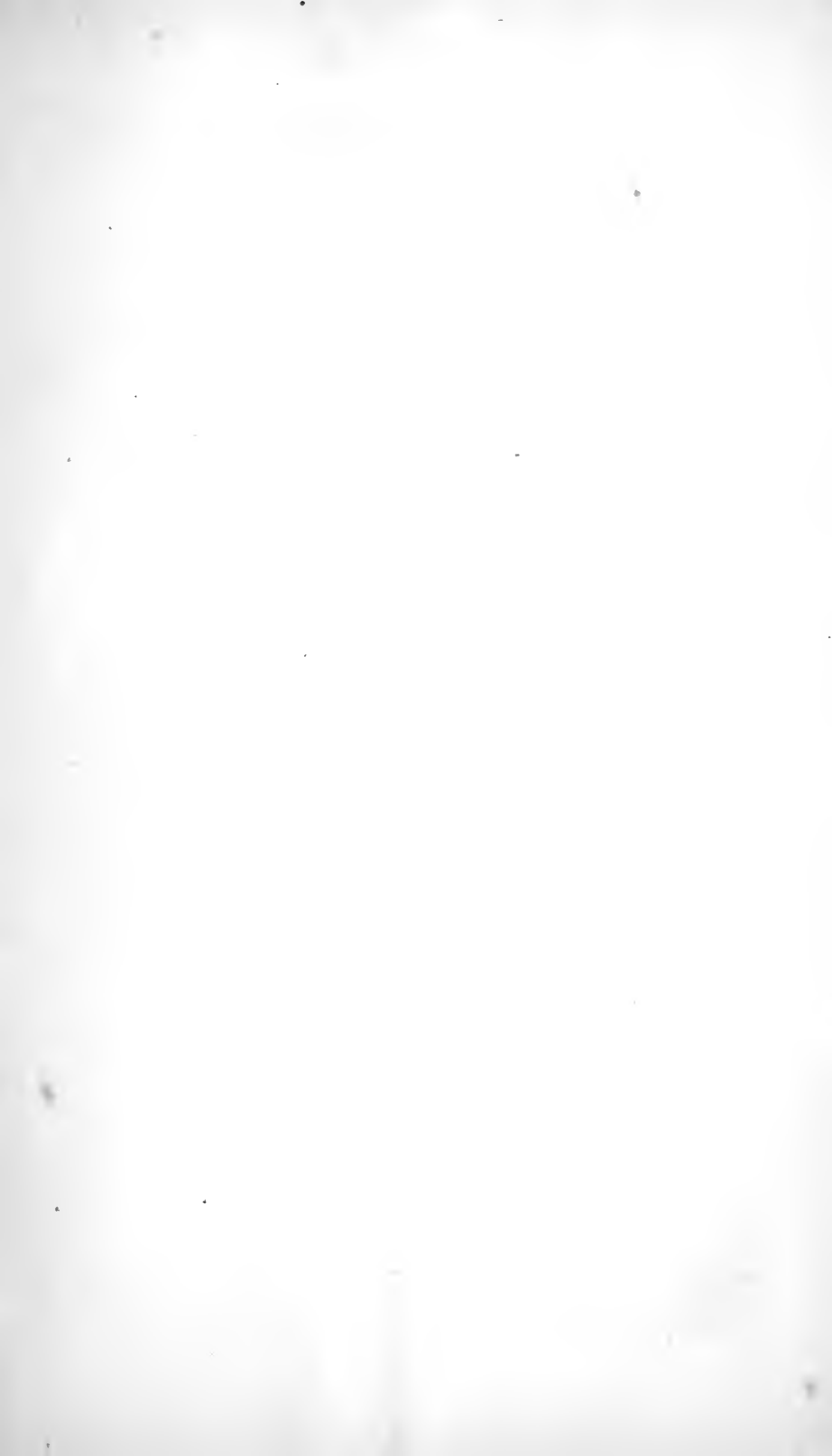
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1854-5.

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RANSTEAD PLACE.  
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Stoughton School  
1880

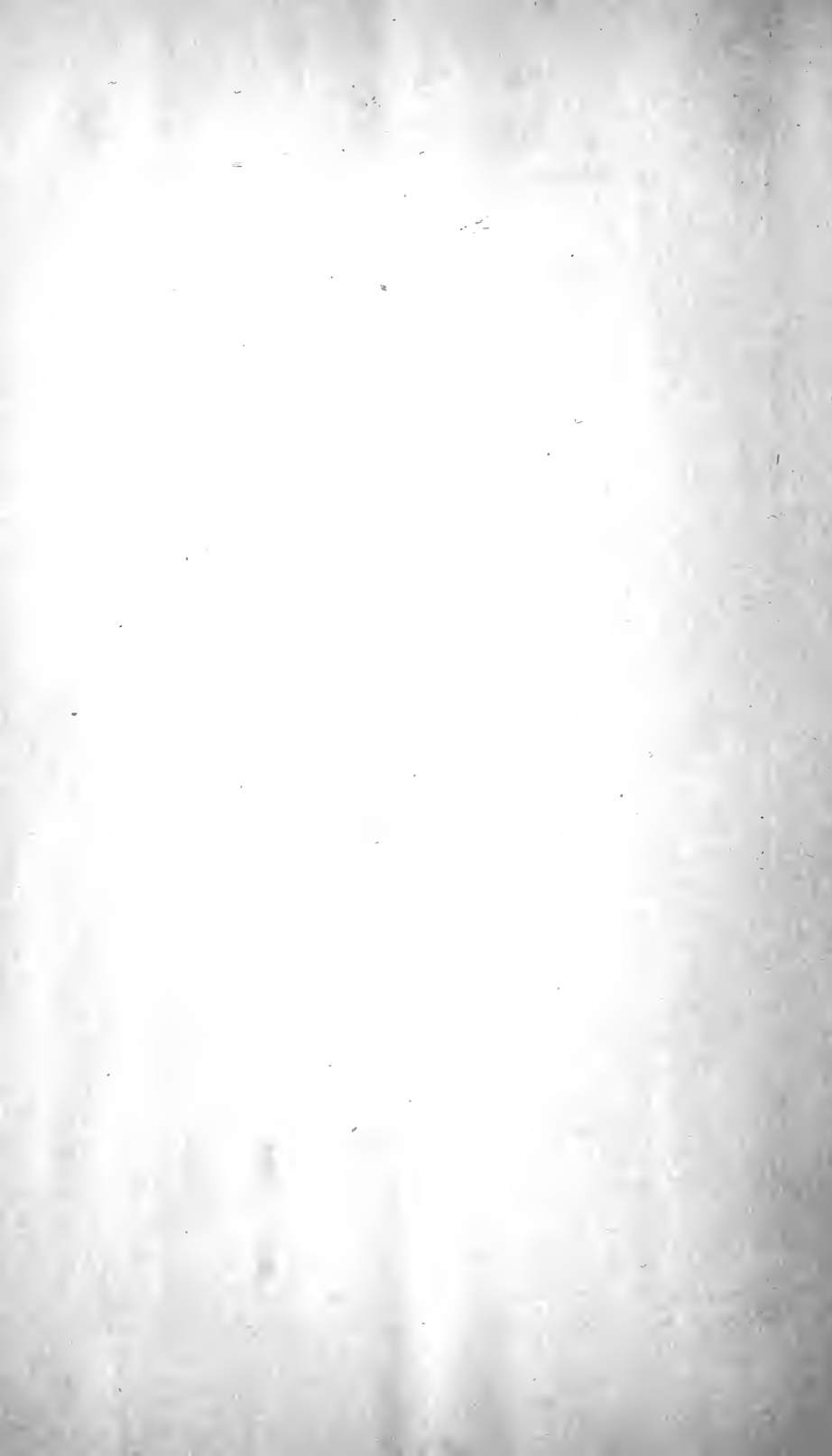
A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD SCHOOL.

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1854-5.

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PHILADELPHIA :  
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# BOARD OF MANAGERS.

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WISTAR MORRIS,  
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JONATHAN RICHARDS.  
MATRON.  
MARGARET C. RICHARDS.



## BOARD OF INSTRUCTORS.

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JOSEPH G. HARLAN,

TEACHER OF MATHEMATICS, NATURAL PHILOSOPHY AND ASTRONOMY.

PAUL SWIFT, M. D.,

TEACHER OF ENGLISH LITERATURE, MORAL PHILOSOPHY AND CHEMISTRY.

WILLIAM AUGUSTUS REYNOLDS, B. A.,

TEACHER OF THE LATIN AND GREEK LANGUAGES AND ANCIENT  
LITERATURE.

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THOMAS H. BURGESS,

ASSISTANT IN THE INTRODUCTORY DEPARTMENT.

# GRADUATES.

1836.

NAMES.	RESIDENCE.
Thomas F. Cock,.....	New York City.....
Joseph Walton, Jun.,.....	Philadelphia.....

1837.

William C. Longstreth,.....	Philadelphia.....
David C. Murray,.....	New York City.....
Lindlay Murray, Jun.,.....	New York City.....
Benjamin V. Marsh,.....	Rahway, N. J.....
Joseph L. Penuock,.....	Philadelphia.....
Robert B. Parsons,.....	Flushing, N. Y.....
Charles L. Sharpless,.....	Philadelphia.....
Lloyd P. Smith,.....	Philadelphia.....
B. Wyatt Wistar,.....	Philadelphia.....

1838.

James V. Emlen,.....	Philadelphia.....
John Elliott, Jun.,.....	Philadelphia.....

1839.

Frederick Collins,.....	Philadelphia.....
Thomas P. Cope, Jun.,.....	Philadelphia.....
Henry Hartshorne,.....	Philadelphia.....
Nereus Mendenhall,.....	Guilford Co., N. C.....
Richard Randolph, Jun.,.....	Philadelphia.....
Charles Taber,.....	New Bedford, Mass.....

## 1840.

NAMES.	RESIDENCE.
Joseph Howell, Jun.,.....	Philadelphia.....
Anthony M. Kimber,.....	Philadelphia.....
Henry H. G. Sharpless,.....	Philadelphia.....
John R. Winslow,.....	Hertford, N. C.....

## 1841.

Richard H. Lawrence,.....	New York City.....
James P. Perot,.....	Philadelphia.....
Elias A. White,.....	North Carolina.....

## 1842.

Robert Bowne,.....	New York City.....
Richard Cadbury,.....	Philadelphia.....
William S. Hilles,.....	Wilmington, Del.....
Thomas Kimber, Jun.,.....	Philadelphia.....
James J. Levick,.....	Philadelphia.....
Edmund Rodman,.....	New Bedford, Mass.....
Thomas Rodman,.....	New Bedford, Mass.....
Benjamin R. Smith,.....	Haverford, Pa.....
Augustus Taber,.....	New Bedford, Mass.....
Cabel Winslow,.....	Hertford, N. C.....

## 1843.

Robert B. Howland,.....	New Bedford, Mass.....
Francis White,.....	North Carolina.....
William D. Strond,.....	Philadelphia.....

## 1844.

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

## 1845.

Edmund Crenshaw,.....	Richmond, Va.....
Robert Pearsall,.....	Philadelphia.....

## 1849.

NAMES.	RESIDENCE.
Albert K. Smiley,.....	Vassalborough, Me.....
Alfred H. Smiley,.....	Vassalborough, Me.....

## 1851.

Joseph L. Bailey,.....	Berks Co., Pa.....
Philip C. Garrett,.....	Philadelphia.....
Thomas J. Levick,.....	Philadelphia.....
Franklin E. Paige,.....	Weare, N. H.....
Zaccheus Test,.....	Richmond, Ind.....
James C. Thomas,.....	Baltimore.....
Richard Wood,.....	Philadelphia.....

## 1852.

Dougan Clark,.....	New Garden, N. C.....
Lewis N. Hopkins,.....	Baltimore.....
William L. Kinsman,.....	Salem, Mass.....
William E. Newhall,.....	Philadelphia.....
James Whitall,.....	Philadelphia.....

## 1853.

William B. Morgan,.....	Raysville, Ind.....
William H. Pancoast,.....	Philadelphia.....

## 1854.

Frederick Arthur, Jun.,.....	Nantucket.....
John W. Cadbury,.....	Philadelphia.....
John B. Garrett,.....	Philadelphia.....
David Scull, Jun.,.....	Philadelphia.....

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## UNDER GRADUATES.

### SENIORS.

John R. Hubbard,.....	New Garden, N. C.....
Samuel Bettle,.....	Philadelphia.....

## JUNIORS.

NAMES.	RESIDENCE.
Bartholomew W. Beeseley.....	Philadelphia.....
Jonathan J. Comfort,.....	Tecumseh, Mich.....
Joel Cadbury, Jun.,.....	Philadelphia.....
William C. Taber, Jun.....	New Bedford, Mass.....
Edward R. Wood,.....	Philadelphia.....
James M. Walton,.....	Philadelphia.....

## SECOND JUNIORS.

Lewis T. Brooke,.....	Radnor, Pa.....
Jesse S. Cheyney,.....	Thornbury, Pa.....
Paschal Hacker,.....	Philadelphia.....
Samuel Hopkins,.....	Baltimore.....
James C. Iddings,.....	Philadelphia.....
Cyrus Mendenhall,.....	Thornton, Ind.....
William T. Valentine.....	Bellefonte, Pa.....
Stephen Wood,.....	Brambleworth, N. Y.....
Ellis H. Yarnall,.....	Philadelphia.....

## THIRD JUNIORS.

Samuel Crowe,.....	Paoli, Ind.....
Daniel W. Hunt.....	Annapolis, Ind.....
Henry Morris,.....	Philadelphia.....
David Street,.....	Salem, O.....

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## ACADEMICAL DEPARTMENT.

William W. Colket,.....	Philadelphia.....
Joseph R. Livezey,.....	Germantown, Pa.....
James R. Magee,.....	Philadelphia.....
William Mellor,.....	Philadelphia.....
Richard C. Paxson.....	Philadelphia.....
John S. Witmer,.....	Paradise, Lan. Co.....

## STUDENTS PURSUING A PARTIAL COURSE.

Thomas W. Acton,.....	Salem, N. J.....
Wm. Charles Alderson,.....	Burlington, N. J.....

NAMES.	RESIDENCE.
Alfred Brooke,	Radnor, Pa.
Jos. Howell Brown,	Philadelphia
James E. Carmalt,	Susquehannah Co., Pa.
Samuel Cooper,	Cooper's Point, N. J.
Edgar Cope,	Montrose, Pa.
William H. Crew,	Richmond, Va.
William M. Dawson,	Philadelphia.
Elihu J. Farmer,	Salineville, O.
Joseph E. Hickman,	Willistown, Pa.
George H. Hopkins,	Haddonfield, N. J.
Gerard Hopkins,	Baltimore.
Ephraim Hopkins,	Darlington, Md.
John Livezey,	Germantown, Pa.
Samuel Longstreth,	Chester Co.
Morton Morris,	West Chester, Pa.
William H. Miller,	Providence, Pa.
Joseph T. Newbold,	Philadelphia.
Samuel F. Pilcher,	Richmond, Va.
William W. Potts,	Norristown, Pa.
William B. Price,	Jefferson Co., O.
William G. Rhoads,	Blockley, Pa.
Samuel T. Satterthwaite,	Burlington, N. J.
Thomas C. Smith,	Philadelphia.
George Street,	Salem, O.
Ogden Street,	Salem, O.
George Tatum,	Woodbury, N. J.
Edgar L. Thomson,	Philadelphia.
William J. Tomlinson,	Camden, N. J.
Stephen Underhill,	Croton Landing, N. Y.
Abram Valentine,	Bellefonte.
George Valentine,	Bellefonte.
William W. Wistar,	Philadelphia.
Thomas Wistar,	Philadelphia.
James Wood,	Mount Kisko, N. Y.

## COURSE OF STUDY.

### INTRODUCTORY CLASSES.

Arithmetic.	
Algebra, . . . . .	<i>Alsop's First Lessons.</i>
Latin Reader, . . . . .	<i>Andrews.</i>
Viri Romæ, . . . . .	"
Cæsar, . . . . .	"
Greek Grammar, . . . . .	<i>Sophocles.</i>
Greek Reader, . . . . .	<i>Jacobs.</i>
Geography, . . . . .	<i>Smith or Olney.</i>
English Grammar, . . . . .	<i>Brown.</i>
Elements of History.	
English Composition, . . . . .	<i>Parker.</i>

### THIRD JUNIOR CLASS.

#### MATHEMATICS.

✓ Algebra continued, . . . . .	<i>Alsop.</i>
✓ Elementary Trigonometry, . . . . .	<i>Gummeré.</i>
✓ Geometry, . . . . .	<i>First Six Books of Euclid.</i>
✓ Surveying, . . . . .	<i>Gummeré, through Ch. 3.</i>

#### LATIN AND GREEK LANGUAGES.

✓ Virgil, . . . . .	<i>Schmidt or Cooper.</i>
✓ Greek Testament, . . . . .	<i>Greenfield.</i>
✓ Xenophon's Anabasis, . . . . .	<i>Owen.</i>

## ENGLISH LITERATURE, ETC.

- ✓ Chemistry, . . . . . *Stockport*  
 . . . . . *Johnson's Turner's.*  
 ✓ Outlines of History, . . . . . *Weber.*  
 ✓ Geology commenced, . . . . . *Hitchcock. Lyle!*  
 English Composition, continued.

## SECOND JUNIOR CLASS.

## MATHEMATICS.

- ✓ Surveying completed.  
 ✓ Geometry of Planes.  
 ✓ Plane and Spherical Trigonometry, . . . . . *Lewis.*  
 ✓ Descriptive Astronomy, to Part II., . . . . . *Herschel.*

## LATIN AND GREEK LANGUAGES.

- ✓ Cicero's Orations, . . . . . *Folsom.*  
 ✓ Livy, . . . . . *Lincoln.*  
 ✓ Anabasis, completed.  
 Iliad or Odyssey.  
 ✓ Latin and Greek Prose Composition, . . . . . *Arnold.*  
 Antiquities.

## ENGLISH LITERATURE, ETC.

- ✓ Physical Geography.  
 ✓ Geology continued.  
 ✓ Chemistry.  
 ✓ Evidences of Christianity, . . . . . *Paley.*

## JUNIOR CLASS.

## MATHEMATICS.

- ✓ Descriptive Astronomy, continued, . . . . . *Herschel.*  
 ✓ Natural Philosophy, . . . . . *Olmstead.*  
 ✓ Analytical Geometry, . . . . . *Loomis or Davies.*



## LATIN AND GREEK LANGUAGES.

Horace, . . . . .	<i>Lincoln.</i>
Tacitus, . . . . .	<i>Tyler or Kingsley.</i>
Sophocles or Euripides, . . . . .	<i>Woolsey.</i>
Demosthenes.	
Latin and Greek Composition, continued,	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Rhetoric, . . . . .	<i>Whately.</i>
Intellectual Philosophy, . . . . .	<i>Wayland.</i>
Commentaries on the Constitution, . . . . .	<i>Story.</i>
Moral Philosophy, . . . . .	<i>Dymond.</i>

## SENIOR CLASS.

## MATHEMATICS.

Differential and Integral Calculus, . . . . .	<i>Loomis.</i>
Astronomy. . . . .	<i>Gummeré.</i>

## LATIN AND GREEK LANGUAGES.

Juvenal, or Equivalent. . . . .	<i>Leverett.</i>
Thucydides, . . . . .	<i>Owen.</i>
Latin and Greek Composition, completed,	<i>Arnold.</i>
Antiquities.	

## ENGLISH LITERATURE, ETC.

Logic, . . . . .	<i>Whately.</i>
Political Economy, . . . . .	<i>Say.</i>
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>

## Examinations.

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STUDENTS who have completed the full course of study, and are candidates for the Diploma of the Institution, will be subjected to close written examinations on all the studies. These examinations are conducted on the following plan.

The members of the class under Examination, are placed in a room by themselves, and each student is furnished with a set of questions, (the same to each), upon some book in the course, which he is required to answer in writing, without consulting any person or book. The time of writing varies from two to five hours, the latter being the limit allowed. The questions are upon topics and passages selected indiscriminately throughout the text-books, and are calculated to test the student's knowledge of the subject.

To each question a certain number is affixed, varying according to its importance and difficulty. If a student answers it correctly, he receives credit for the full number. If an error is committed, a deduction is made in the number received, proportioned to its importance. A student must gain credit for at least one half of all the numbers in each study of the course, and also for two thirds of all the numbers in each Department, before the Diploma of the Institution can be awarded. The Diplomas are thus designed to be honorary distinctions, corresponding rather to the Class-honors than to the Diplomas which are usually awarded in Colleges.

## Object and Situation of the School.

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ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object, —Subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833.

The Institution has a remarkably pleasant and healthy location on the Columbia Rail Road, 9 miles West of Philadelphia. The building is situated in the midst of a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. Connected with this is a green-house accessible to the members of the School. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 65. Gas-works have lately been put up, and gas introduced throughout the buildings. By the exertions of the students, a Gymnasium has recently been built and furnished, at an expense of \$1300.

## Observatory.

WITH the view of furnishing to the students in the higher classes the means of becoming familiar with the construction and use of astronomical instruments, and of acquiring from actual observation a practical acquaintance with astronomy, a handsome Observatory has recently been erected near the School. The building is of stone, and consists of a central part 20 feet square, and of about the same height, surmounted by a revolving dome 19 feet in diameter, and two wings, each about 15 feet square. In the west wing is the Transit room, and in the east one, a room for the observer.

The Instruments now in the Observatory are an Equatorial Telescope, a Meridian Transit Circle, a Sidereal Clock, a Magnetic Register for recording time, and several other smaller astronomical instruments. The Equatorial Instrument, by Fitz, is the largest in the State of Pennsylvania, the next in size to that of the National Observatory at Washington, being 11 feet long, with an achromatic object glass  $8\frac{1}{4}$  inches in diameter. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which is supported by a large stone pier, passing through, though entirely detached from, the floors of the building. By means of clock work, the telescope can be kept as steadily pointing towards the celestial object upon which it is turned, as though the object itself were stationary.

The Transit Instrument, which is of the German form, having the circles at the extremities of the axis, was made by Wm. J. Young, of Philadelphia. It has a telescope of 5 feet focus and

4 inches aperture ; and two circles 26 inches in diameter, one of which is divided to read to two seconds of arc ; the other is used only as a finder. Each end of the axis is supported on a permanent marble pier 5 feet high, having its foundations on solid mason work unconnected with the building. In the same room with the Transit Instrument, is an excellent sidereal clock, the gift of Thomas P. Cope. It is made with a glass pendulum, and a mercurial compensation, and is firmly secured to a marble slab built in the wall of the room. Connected with the clock there is a Magnetic Register, by Bond, of the Cambridge Observatory, which is a chronographic contrivance, by which, during observations, every second of time is recorded upon a moving sheet of paper : it is so arranged that the observer, by simply touching a spring, can mark the exact instant of the transit of a star across each wire of the instrument, and thus obtain its meridian passage to within  $\frac{1}{30}$ th of a single second.

The cost of the Observatory was \$2500 ; and that of the Instruments in it about \$4500.

---

## D r a w i n g .

WITHIN the past year, the study of Perspective and Mechanical Drawing, has been introduced, under the charge of Henry S. Schill, B. A., of the High School of Philadelphia. This, practically useful branch of education, is pursued by most of the students, and the interest which they manifest in it, as well as the progress made by many, give evidence that its utility is appreciated.

## Library.

---

THE Library belonging to the School has been selected with great care. The number of volumes is at present 2100, additions to which are frequently made. Besides a good selection of popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, and a complete set of Valpy's Latin Classics, with the most approved Lexicons, &c. ; and will shortly be enriched with many of the best German commentaries on the Greek and Latin Classics.

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## Philosophical Apparatus.

A LARGE and expensive apparatus has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires and the funds of the Institution permit.

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## Lecture and Apparatus Rooms.

A NEW building has recently been erected at a great expense, by the Managers, in the second story of which is a beautiful Lecture Room, admirably lighted and ventilated—and connected with it are the Apparatus Rooms, greatly facilitating the preparation and exhibition of Scientific experiments.

## Chemical Laboratory.

---

IN the rear of the Apparatus Rooms, is a large and thoroughly ventilated Laboratory, in which the Students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the teacher of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

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## Cabinet of Minerals.

THE extensive collection of the late Dr. Troost occupies the cases in the Collection Room. An interesting addition to it has recently been made in a complete suite of Minerals illustrating the Geology of New York, prepared for the Institution by the late Lardner Vanuxem.

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## The Loganian Society.

THIS Society, established by the Officers and Students of the School in 1834, for their improvement in literary and scientific pursuits, has been in successful operation to this time. The exercises are Discussions, Declamations, Original Essays, etc. It also publishes a manuscript paper, monthly. It has in its possession a library of about 500 volumes, and a museum of curiosities. It has also a flower-garden, and a carpenter's shop, furnished with a lathe, and a complete set of carpenters' tools.

## Terms, Tuition, &c.

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THERE are two terms in the year ; the Winter Term of six months, commencing on the second Fourth-day in the Tenth Month ; and the Summer Term of four months, commencing on the second Fourth-day in the Fifth month. Two vacations of four weeks each occur, one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Session, and never for a period less than one year. A rule of the Association directs that “The school shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society.”

The price for Board and Tuition is \$250 per annum, payable as follows, viz. \$75 at the opening of the Winter Term ; \$75 at the middle of it, and \$100 at the opening of the Summer Term.









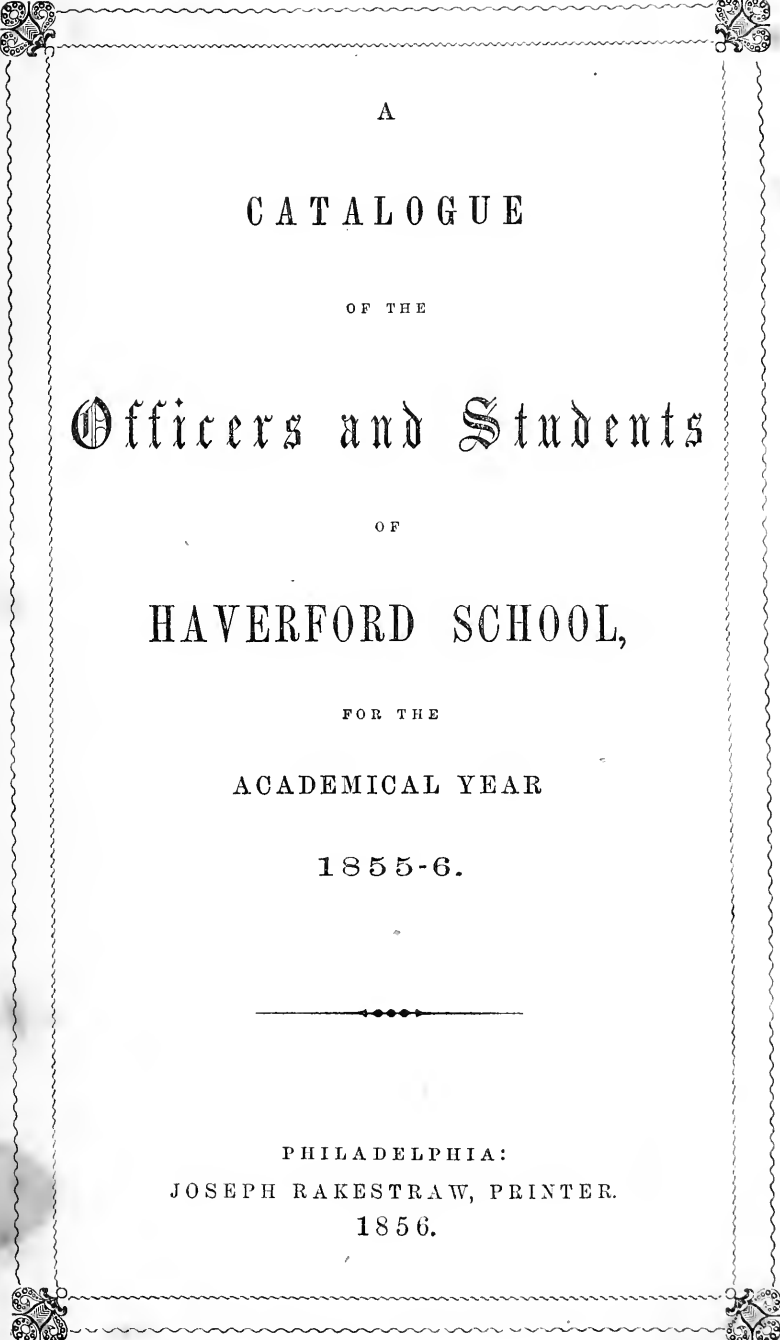
A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD SCHOOL,  
FOR THE  
ACADEMICAL YEAR  
1855-6.

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PHILADELPHIA:  
JOSEPH RAKESTRAW, PRINTER.  
1856.







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1856.



## BOARD OF MANAGERS.

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SECRETARY.

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TREASURER.

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JONATHAN RICHARDS.

MATRON.

MARGARET C. RICHARDS.



# BOARD OF INSTRUCTORS.

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PAUL SWIFT, M. D.,

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JOSEPH G. HARLAN, —

TEACHER OF MATHEMATICS, NATURAL PHILOSOPHY, AND ASTRONOMY.

THOMAS CHASE, A. M., —

TEACHER OF THE GREEK AND LATIN LANGUAGES AND ANCIENT  
LITERATURE.

TIMOTHY NICHOLSON, —

TEACHER OF THE ACADEMICAL DEPARTMENT.

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INSTRUCTOR IN DRAWING,

HENRY S. SCHELL, B. A.

# GRADUATES.

1836.

NAMES.	RESIDENCE.
Thomas F. Cock, M. D.,.....	New York City.....
Joseph Walton,.....	Philadelphia.....

1837.

William C. Longstreth,.....	Philadelphía.....
David C. Murray,.....	New York City.....
Lindley Murray,.....	New York City.....
Benjamin V. Marsh,.....	Rahway, N. J.....
Joseph L. Pennock,.....	Philadelphía.....
Robert B. Parsons,.....	Flushing, N. Y.....
Charles L. Sharpless,.....	Philadelphía.....
Lloyd P. Smith,.....	Philadelphía.....
B. Wyatt Wistar,.....	Philadelphía.....

1838.

James V. Emlen, M. D.,.....	Philadelphía.....
John Elliott,.....	Philadelphía.....

1839.

Frederick Collins,.....	Philadelphía.....
Thomas P. Cope,.....	Philadelphía.....
Henry Hartshorne, M. D.,.....	Philadelphía.....
Nereus Mendenhall, M. D.,.....	Guilford Co., N. C.....
Richard Randolph, Jun., M. D.,.....	Philadelphía.....
Charles Taber,.....	New Bedford, Mass.....

## 1840.

NAMES.	RESIDENCE.
Joseph Howell,	Philadelphia.....
Anthony M. Kimber,	Philadelphia.....
Henry H. G. Sharpless,	Philadelphia.....
John R. Winslow, M. D.,	Hertford, N. C.....

## 1841.

Richard H. Lawrence,	New York City.....
James P. Perot,	Philadelphia.....
Elias A. White,	North Carolina.....

## 1842.

Robert Bowne,	New York City.....
Richard Cadbury,	Philadelphia.....
William S. Hilles,	Wilmington, Del.....
Thomas Kimber, Jun.,	Philadelphia.....
James J. Levick, M. D.,	Philadelphia.....
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.

Robert B. Howland,	New Bedford, Mass.....
Francis White,	North Carolina.....
William D. Stroud, M. D.,	Philadelphia.....

## 1844.

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

## 1845.

Edmund Crenshaw,	Richmond, Va.....
Robert Pearsall,	Philadelphia.....

## 1849.

NAMES.	RESIDENCE.
Albert K. Smiley,.....	Vassalborough, Me.....
Alfred H. Smiley,.....	Vassalborough, Me.....

## 1851.

Joseph L. Bailey,.....	Berks Co., Pa.....
Philip C. Garrett,.....	Philadelphia.....
Thomas J. Levick,.....	Philadelphia.....
Franklin E. Paige,.....	Weare, N. H.....
Zaccheus Test, M. D.,.....	Richmond, Ind.....
James C. Thomas, M. D.,.....	Baltimore.....
Richard Wood,.....	Philadelphia.....

## 1852.

Dougan Clark,.....	New Garden, N. C.....
Lewis N. Hopkins,.....	Baltimore.....
William L. Kinsman,.....	Salem, Mass.....
William E. Newhall,.....	Philadelphia.....
James Whitall,.....	Philadelphia.....

## 1853.

William B. Morgan,.....	Raysville, Ind.....
William H. Pancoast,.....	Philadelphia.....

## 1854.

Frederick Arthur, Jun.,.....	Nantucket.....
John W. Cadbury,.....	Philadelphia.....
John B. Garrett,.....	Philadelphia.....
David Scull, Jun.,.....	Philadelphia.....

## 1855.

Samuel Bettle,.....	Philadelphia.....
John R. Hubbard,.....	New Garden, N. C.....

## UNDER GRADUATES.

### SENIORS.

NAMES.	RESIDENCE.
Bartholomew W. Beesley,	Arch and Tenth Streets, Philadelphia..
Joel Cadbury, Jun.,	No. 9 Franklin Square, Philadelphia....
Jonathan J. Comfort,	Tecumseh, Mich.....
*Eli M. Lamb,	Milton, Baltimore Co., Md.....
James M. Walton,	No. 199 Filbert Street, Philadelphia....
Edward R. Wood,	No. 421 Arch Street, Philadelphia.....

### JUNIORS.

Lewis T. Brooke,	Radnor P. O., Delaware Co., Pa.....
Jesse S. Cheyney,	Dilworthtown, Chester Co., Pa.....
†Thomas Clark,	Carthage, Ind.....
*Edgar Cope,	Montrose, Susquehanna Co., Pa.....
Cyrus Mendenhall,	Plainfield, Ind.....
*William B. Price,	Smithfield, Jefferson Co., O.....
†Thomas Wistar,	No. 184 Arch Street, Philadelphia.....
Stephen Wood,	Mount Kisko, N. Y.....

### SECOND JUNIORS.

*Thomas W. Acton,	Salem, N. J.....
*Alfred Brooke,	West Haverford P. O., Del. Co., Pa.....
†Thomas H. Burgess,	Harveysburg, Warren Co., O.....
Samuel Crowe,	Paoli, Ind.....
†Paschall Hacker,	No. 144 South Fourth St., Philadelphia.
*Ephraim Hopkins, Jun.,	Darlington, Md.....

\* Students whose names are marked thus (\*) are pursuing a Partial Course. Those marked (†), though studying in all the departments of the Collegiate course, recite in some departments with one class, in others with another, and belong to the class in which their names are placed, only in a majority of their studies.

NAMES.	RESIDENCE.
✓ *George H. Hopkins,	Haddonfield, N. J.
✓ Samuel Hopkins,	No. 74 Saratoga St., Baltimore, Md.
- † Daniel W. Hunt,	Annapolis, Ind.
† *William Mellor,	No. 5 Franklin Square, Philadelphia.
✓ *William R. Ratcliff,	Mount Pleasant, Jefferson Co., O.
- *William G. Rhoads,	Philadelphia, Pa.
† Samuel T. Satterthwaite,	Chesterfield, N. J.
- Joseph W. Starr,	Richmond, Ind.
✓ *George M. Tatum,	Woodbury, N. J.
✓ *Edgar L. Thomson,	No. 145 N. Sixth Street, Philadelphia.
- Wm. Graham Tyler,	Salem, N. J.
* Stephen Underhill,	Croton Landing, N. Y.
✓ *James Wood,	Mount Kisko, N. Y.
- Ellis H. Yarnall,	No. 30 S. Twelfth Street, Philadelphia.

### THIRD JUNIORS.

✓ *Morris Bacon,	Greenwich, N. J.
✓ *James E. Carmalt,	Friendsville, Susquehanna Co., Pa.
Nathan F. Comstock,	Adrian, Mich.
† James W. Cromwell,	New York City.
✓ *Samuel C. Decou,	Yardville, Mercer Co., N. J.
* Joseph E. Hickman,	Willistown, Pa.
- Powell Buxton Hill,	New Salem, N. C.
* George W. Iddings,	Broad and Pine Streets, Philadelphia.
* Jacob Johnson,	Philadelphia, Pa.
James R. Magee,	No. 465 Arch Street, Philadelphia.
* George T. Matlack,	West Chester, Pa.
✓ *Henry G. Morris,	Fifth and Franklin Sts., Philadelphia.
† Morton Morris,	West Chester, Pa.
- Theodore Morris,	No. 352 Arch Street, Philadelphia.
† Dillwyn Parrish,	No. 339 Race Street, Philadelphia.
Richard C. Paxson,	Philadelphia, Pa.
- Edward Rhoads,	Philadelphia, Pa.
- Abram Sharples,	Pine Street, below Broad St., Philada.
Benjamin H. Smith,	Upper Darby, Delaware Co., Pa.

NAMES.	RESIDENCE.
†Thomas C. Steele,	Pottstown, Pa.
*William I. Tomlinson,	Glendale P. O., N. J.
*Thomas Wildes,	Arneytown, Burlington Co., N. J.
†John S. Witmer,	Paradise, Lancaster Co., Pa.
*William H. Wood,	No. 48 Market Street, New York.

### ACADEMICAL DEPARTMENT.

†William H. Brown, Jun.,	Chesnut Hill, Philadelphia.
*William W. Colket,	No. 312 N. Seventh Street, Philada.
*Samuel C. Cooper,	Cooper's Point, N. J.
*William M. Corlies,	Strickersville, Chester Co., Pa.
†Joseph S. Hopkins,	No. 74 Saratoga Street, Baltimore, Md.
Walter G. Hopkins,	Haddonfield, N. J.
*Edward Maddock,	No. 607 Chesnut Street, Philadelphia.
*C. Israel Pleasants,	Sunbury, Pa.
*T. Jefferson Shinn,	Haddonfield, N. J.
*Thomas C. Smith,	No. 465 N. Eighth Street, Philada.
*Edwin Tomlinson,	Glendale P. O., N. J.
*Edward Underhill,	Whitestone, L. I.
*Roberts Vaux,	Chesnut and Nineteenth Sts., Philada.
George Wood,	No. 421 Arch Street, Philadelphia.

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### SUMMARY.

GRADUATES,.....66

#### UNDER GRADUATES.

SENIORS,.....6

JUNIORS,.....8

SECOND JUNIORS,.....20

THIRD JUNIORS,.....24

ACADEMICAL STUDENTS,.....14

TOTAL,.....72

## COURSE OF STUDY.

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### ACADEMICAL DEPARTMENT.

Arithmetic.	
Algebra, . . . . .	<i>Alsop's First Lessons.</i>
Latin Grammar, . . . . .	<i>Andrews &amp; Stoddard.</i>
First Latin Book, . . . . .	<i>Arnold.</i>
Latin Reader, . . . . .	<i>Andrews.</i>
Viri Romæ, . . . . .	“
Cæsar, . . . . .	“
Greek Grammar, . . . . .	<i>Sophocles.</i>
Greek Lessons, . . . . .	<i>Sophocles.</i>
Greek Reader, . . . . .	<i>Jacob's or Felton's.</i>
Geography, . . . . .	{ <i>Naylor's, with Pelton's</i> <i>Outline Maps.</i>
English Grammar, . . . . .	<i>Brown.</i>
Elements of History.	
English Composition.	
Elocution, . . . . .	<i>Town's Fourth Reader.</i>

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### THIRD JUNIOR CLASS.

#### MATHEMATICS.

Algebra continued, . . . . .	<i>Alsop.</i>
Elementary Trigonometry, . . . . .	<i>Gummeré.</i>
Geometry, . . . . .	<i>First Six Books of Euclid.</i>
Surveying, . . . . .	<i>Gummeré, through Ch. 3.</i>



## GREEK AND LATIN LANGUAGES.

Greek Testament, . . . . .	<i>Greenfield.</i>
Xenophon's Anabasis, . . . . .	<i>Owen.</i>
Greek Syntax, . . . . .	<i>Crosby.</i>
Virgil, . . . . .	<i>Schmitz or Gould.</i>
Latin Prosody.	
Latin Prose Composition, . . . . .	<i>Arnold.</i>

## ENGLISH LITERATURE, ETC.

Chemistry, . . . . .	<i>Stöckhardt.</i>
Outlines of History, . . . . .	<i>Weber.</i>
Geology, commenced, . . . . .	<i>Hitchcock.</i>
English Composition.	

## SECOND JUNIOR CLASS.

## MATHEMATICS.

Surveying completed.	
Geometry of Planes.	
Plane and Spherical Trigonometry, . . . . .	<i>Lewis.</i>
Descriptive Astronomy, to Part II., . . . . .	<i>Herschel.</i>

## GREEK AND LATIN LANGUAGES.

Anabasis completed.	
Iliad or Odyssey of Homer.	
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Cicero's Orations, . . . . .	<i>Johnson.</i>
Livy, . . . . .	<i>Lincoln.</i>
Latin Prose Composition continued.	

## ENGLISH LITERATURE, ETC.

Physical Geography, . . . . .	<i>Guyot.</i>
Geology continued.	
Chemistry, . . . . .	<i>Johnson's Turner's.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>

## JUNIOR CLASS.

### MATHEMATICS.

Descriptive Astronomy, continued,	. Herschel.
Natural Philosophy,	. . . . . Olmsted.
Analytical Geometry,	. . . . . Loomis, or Davies.

### GREEK AND LATIN LANGUAGES.

Sophocles or Euripides,	. . . . . Woolsey.
Demosthenes on the Crown,	. . . . . Champlin.
Greek Composition, continued,	. . . . . Arnold.
Horace,	. . . . . Lincoln.
Tacitus's Annals, or the Germania and the Agricola,	. . . . . Kingsley, or Tyler.
Latin Composition, continued,	. . . . . Arnold.

### ENGLISH LITERATURE, ETC.

Rhetoric,	. . . . . Whately.
Intellectual Philosophy,	. . . . . Wayland.
Commentaries on American Law,	. . . . . Kent.
Moral Philosophy,	. . . . . Dymond.

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## SENIOR CLASS.

### MATHEMATICS.

Practical Astronomy,	. . . . . Loomis.
Differential and Integral Calculus,	. . . . . Loomis.

### GREEK AND LATIN LANGUAGES.

Demosthenes on the Crown, completed,	Champlin.
Thucydides,	. . . . . Owen.
Greek Compositions.	
Juvenal,	. . . . . Leverett.
Plautus, or Terence.	
Latin Compositions and Extemporalia.	

### ENGLISH LITERATURE, ETC.

Logic,	. . . . . Whately.
Political Economy,	. . . . . Wayland.
Lectures on Modern History,	. . . . . Arnold.
Analogy of Natural and Revealed Religion,	Butler.

## Lectures.

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DURING the greater part of the Winter Term, Lectures are delivered weekly by the different Teachers, in regular order, on subjects connected with their Departments. The subjects vary from year to year, in order to give each class, in the four years of the collegiate course, as full a view of the different fields illustrated, as practicable. The course for the winter of 1855-56 is as follows :

<i>Geology,</i> . . . . .	PAUL SWIFT.
<i>Astronomy,</i> . . . . .	JOSEPH G. HARLAN.
<i>The Geography, Monuments, and Early Settlements of Greece and Italy,</i> . . .	THOMAS CHASE.
<i>Natural Philosophy,</i> . . .	TIMOTHY NICHOLSON.

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## Examinations.

Near the close of each Summer term, there is a private examination of the Second Junior 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 Diploma of the Institution. The examinations are conducted upon the following plan.

The members of the class under Examination are arranged in a room by themselves, and each student is furnished with a set of questions, (the same to each), upon some book 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 indiscriminately throughout the text-books, and are calculated to test the student's knowledge of the subject.

To each question a certain number is affixed, varying according to its importance and difficulty. The answers in each department are examined by the Teacher of that department, who places against each answer that is substantially correct, the number affixed to the corresponding question ; except when the answer is either imperfect, or distinguished for merit ; in which case, instead of this number, he places a lower or a higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one half of all the numbers in each study of the course, and also for two thirds of all the numbers in each Department, before he can be advanced to the Junior Class, or receive the Diploma of the Institution. The Diplomas are thus designed to be honorary distinctions, corresponding rather to the Class-honors than to the Diplomas which are usually awarded in Colleges.

Students pursuing a partial course in the Third and Second Junior Classes, undergo the written examination in the subjects pursued, before advancement to the Junior Class.

The Transit Instrument, which is of the German form, having the circles at the extremities of the axis, was made by Wm. J. Young, of Philadelphia. It has a telescope of 5 feet focus and 4 inches aperture; and two circles 26 inches in diameter, one of which is divided to read to two seconds of arc; the other is used only as a finder. Each end of the axis is supported on a permanent marble pier 5 feet high, having its foundations on solid mason work unconnected with the building. In the east wing is an excellent sidereal clock, the gift of the late Thomas P. Cope. It is made with a glass pendulum, and a mercurial compensation, and is firmly secured to a marble slab built in the wall of the room. Connected with the clock there is a Magnetic Register, by Bond, of the Cambridge Observatory, which is a chronographic contrivance, by which, during observations, every second of time is recorded upon a moving sheet of paper: it is so arranged that the observer, by simply touching a spring, can mark the exact instant of the transit of a star across each wire of the instrument, and thus obtain its meridian passage to within  $\frac{1}{30}$ th of a single second.

The cost of the Observatory was \$2500; and that of the Instruments in it about \$4500.

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## Drawing.

THE study of Perspective and Mechanical Drawing is pursued by most of the students, under the charge of Henry S. Schell, B. A., of the High School of Philadelphia. The interest manifested in it, as well as the progress made by many, give evidence that the value of this branch of education is appreciated.

## Library.

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THE Library belonging to the School has been selected with great care. The number of volumes is at present about 2350, additions to which are frequently made. Besides a good selection of popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, and a complete set of Valpy's Latin Classics, the most approved Lexicons, and many of the best German commentaries on the Greek and Latin authors.

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## Apparatus.

A LARGE and expensive apparatus has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires and the funds of the Institution permit.

Kiepert's valuable series of Wall Maps, illustrating Ancient Geography, has recently been procured for the Classical Department.

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## Lecture and Apparatus Rooms.

A BUILDING has been erected at a great expense, by the Managers, in the second story of which is a beautiful Lecture Room, admirably lighted and ventilated—and connected with it are the Apparatus Rooms, greatly facilitating the preparation and exhibition of experiments in the Natural Sciences.

## Chemical Laboratory.

---

IN the rear of the Apparatus Rooms, is a large and thoroughly ventilated Laboratory, in which the students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the teacher of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

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## Cabinet of Minerals.

THE extensive collection of the late Dr. Troost occupies the cases in the Collection Room. An interesting addition to it has recently been made in a complete suite of Minerals illustrating the Geology of New York, prepared for the Institution by the late Lardner Vanuxem.

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## The Loganian Society.

THIS Society, established by the Officers and Students of the School in 1834, for their improvement in literary and scientific pursuits, has been in successful operation to this time. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript journal, monthly. It has in its possession a carefully selected library of upwards of 700 volumes, a mu-

seum of curiosities, and a carpenter's shop, furnished with a lathe, and a complete set of tools. A well furnished gymnasium, also, is under its direction, and is much used by the members.

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## Object and Situation of the School.

ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833.

The Institution has a remarkably pleasant and healthy location on the Columbia Rail Road, nine miles west of Philadelphia. The building is situated in the midst of a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 75. Gas-works have been put up, and gas introduced throughout the buildings.



## Observatory.

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WITH the view of furnishing to the students in the higher classes the means of becoming familiar with the construction and use of astronomical instruments, and of acquiring from actual observation a practical acquaintance with astronomy, a handsome Observatory has recently been erected near the School. The building is of stone, and consists of a central part 20 feet square, and of about the same height, surmounted by a revolving dome 19 feet in diameter, and two wings, each about 15 feet square. In the west wing is the Transit room, and in the east wing, a room for the observer.

The Instruments now in the Observatory are an Equatorial Telescope, a Meridian Transit Circle, a Sidereal Clock, a Magnetic Register for recording time, and several other smaller astronomical instruments. The Equatorial Instrument, by Fitz, is the largest in the State of Pennsylvania, the next in size to that of the National Observatory at Washington, being 11 feet long, with an achromatic object glass  $8\frac{1}{4}$  inches in diameter. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which is supported by a large stone pier, passing through, though entirely detached from, the floors of the building. By means of clock work, the telescope can be kept as steadily pointing towards the celestial object upon which it is turned, as though the object itself were stationary.

## Terms, Tuition, Etc.

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THERE are two terms in the year; the Winter Term of six months, commencing on the second Fourth-day in the Tenth Month; and the Summer Term of four months, commencing on the second Fourth-day in the Fifth Month. Two vacations of four weeks each occur, one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Session, and never for a period less than one year. A rule of the Association directs that "The school shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society."

The price for Board and Tuition is \$250 per annum, payable as follows, viz.: \$75 at the opening of the Winter Term, \$75 at the middle of it, and \$100 at the opening of the Summer Term.



HAVERFORD.

A P R I Z E P O E M.

BY

JESSE S. CHEYNEY.



HAVERFORD.  
 A Loganian Prize Poem,

BY JESSE S. CHEYNEY,

OF THE JUNIOR CLASS.

---

WEEN, HAVERFORD, I tread thy cherished halls,  
 Softly the echo of each footstep falls,  
 Bright, youthful faces meet my every gaze,  
 In this sweet loved spot of my happiest days.  
 Whether, when morning crowns yon waving wood,  
 Along thy paths I stray in pensive mood,  
 Hear the sweet matins rise from every grove,  
 Or gentle songsters' plaintive notes of love ;  
 Whether I drink the fount of Classic Song,  
 Or toil unceasing Nature's laws among,  
 Sip the sweet spring of History's sacred stream,  
 And revel in the Past's mysterious dream ;  
 Whether I follow, with the few and lone,  
 The paths that Mathesis proclaims her own,  
 Where'er I wander, or whate'er I see,  
 But binds me closer to my God and thee.

Sweet are the streams that from the mountains flow,  
 To peaceful rivers in the vale below ;  
 Pure are their waters, flashing in the sun,  
 As, wildly grand, down craggy steeps they run,  
 Till, mingling in the valley's swelling stream,  
 Seaward they float in beauty's glorious mien.

So where the streams of knowledge rapid flow  
 From shady fountains to the plain below,  
 Each varied stream with rapid course descends,  
 Till with the valley's tide its current blends,  
 Then flowing onward with majestic sweep,  
 The mingled waters seek the boundless deep.

Here, one such streamlet hath its peaceful source,  
 And hence in beauty takes its winding course ;  
 While we may stoop to drink its crystal tide,  
 Or roam in pleasure on its flowery side,  
 Revel upon its meadows deck'd with green,  
 Or rest within its forests' leafy screen.  
 Here, then, is pleasure unalloyed and pure ;  
 Here are enjoyments that shall long endure.

But are these all ? Ah no ! for what were joy,  
 E'en though 'twere spotless and without alloy,  
 Did not Religion cheer us, blindly tost,  
 Faith take the helm, and Hope restore the lost.  
 Though sweet the fount of Learning's sacred stream,  
 Though pure its waters as the fading dream,  
 'Twere wrapped in night, did not Religion's ray  
 Disclose its beauties to the face of day.  
 This is the Sun that gilds the fountain's foam,  
 Lights the green vale where Learning's waters roam,  
 Fires the sweet landscape spread around to view,  
 And shows 'mid Nature's plans a purpose true.

And these are thine ; for joyful, hand in hand,  
 Within thy walls these heaven-born sisters stand ;  
 Thy votaries' steps with constant care they guide,  
 Lest faltering drop they in Destruction's tide.

But when the day's close task at last is done,  
 We wander forth to greet the sinking sun,  
 O'er wonted pathways oft our footsteps stray,  
 Till night's dark mantle checks our onward way.  
 Or oft, when autumn winds are sighing round,  
 We seek with sportive joy the foot-ball ground,

In contest warm we wage the healthful strife,  
Till blush our features with new glowing life.

Sometimes when winter binds with icy chain  
The glassy branchlets of the distant main,  
Upon their smooth expanse in glittering steel,  
In mimic warfare, shouting squadrons wheel,  
Or, like the swallow, dart amidst the throng,  
And then away in flight expert and long ;  
While ring the woodlands, robed in peaceful snow,  
With merry voices from the plain below.

When summer crowns thy lawn with beauty sweet,  
We stray along its pathways' cool retreat,  
Inhale the freshness of the opening rose,  
And every flower that here in beauty blows ;  
Or 'neath the maple's quivering shade we sit,  
While softly through, the trembling moonbeams fit.

Oft when the stars in night's blue crown are bright,  
And the pale moon looks down with modest light,  
A happy band, we seek thy open hall,  
For 'tis "Loganian's" sweetly ringing call.  
Dear are the teachings of this friend to youth,  
Leading its steps along the vale of Truth,  
Lighting the paths that lead where science dwells,  
Bearing the torch in History's misty cells,  
Urging the mind' to strive in grave debate,  
Or on the Muses' inspirations wait,  
In language strong and pure to clothe the thought,  
With force, sublimity, and beauty fraught ;  
Preparing still, in all her actions done,  
The student's mind life's little span to run.  
Where in the past her peaceful course appears,  
A line of silver in the mist of years,  
Her power exerted urged the rising day,  
And drove the morning mists from heaven away,  
When o'er these halls night's slumb'rous darkness hung,  
And cold stagnation's fogs around were flung.

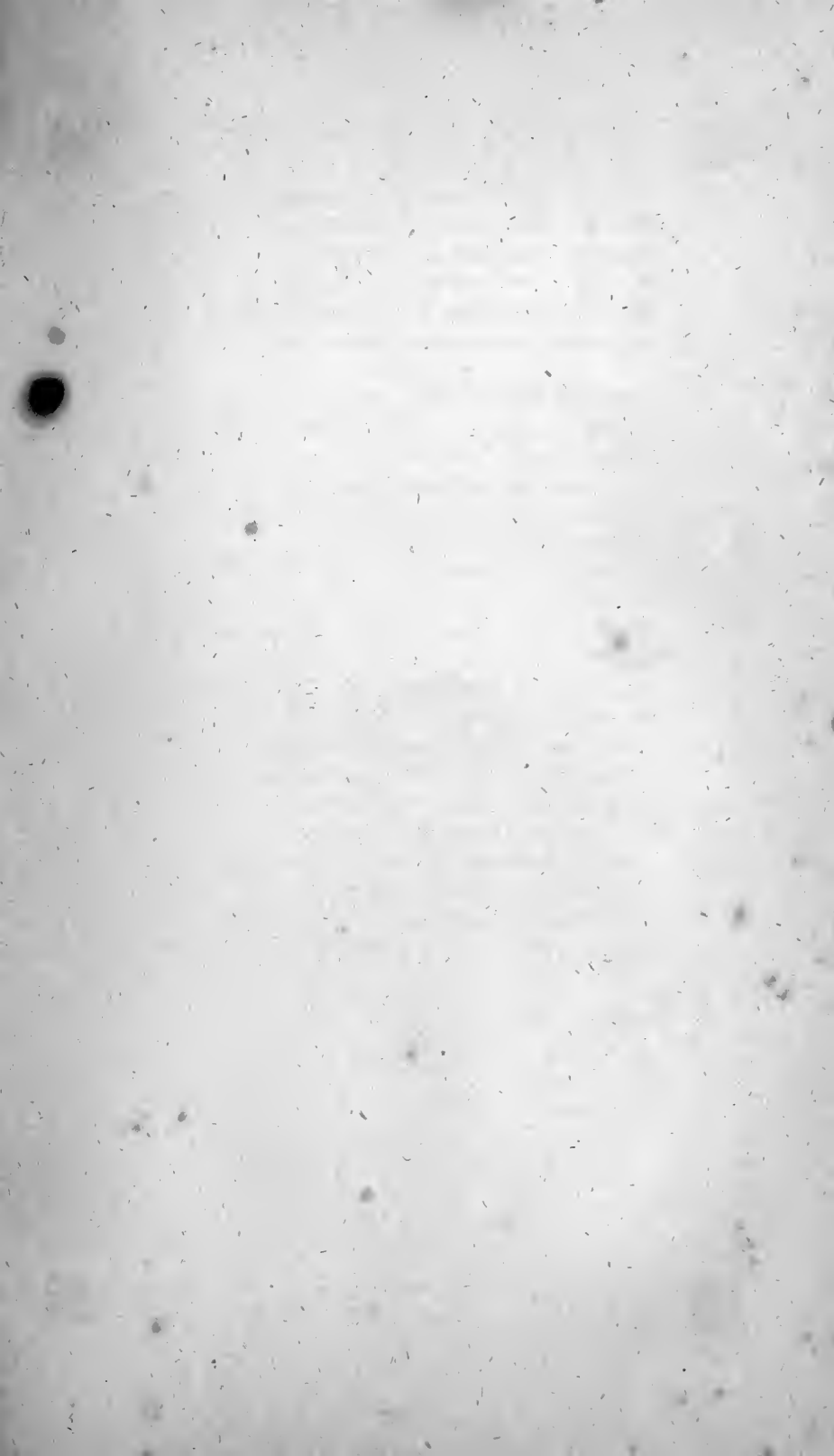
May the dim future prove for her no dream  
That fades away with morning's orient gleam,  
But as the wheels of quick departing Time,  
Roll the dim shadows from the future clime,  
May day's bright sunlight o'er her forehead play,  
And evening's radiance close her latest day.

But now I seek the Future's misty face,  
Through years to come, thy distant course to trace.  
Methinks I see, in lingering array,  
Thy future pupils, strengthened, turn away  
To meet the billows of the world's cold tide,  
The touch repulsive of obdurate pride,  
The many ills of life's uncertain date,  
The secret snares that round our pathway wait ;  
But stern they move, unscathed by threatening cares,  
Firm in their virtue, steadfast in their prayers,  
And ever turning till their latest day,  
Where gently flowed the tide of youth away.

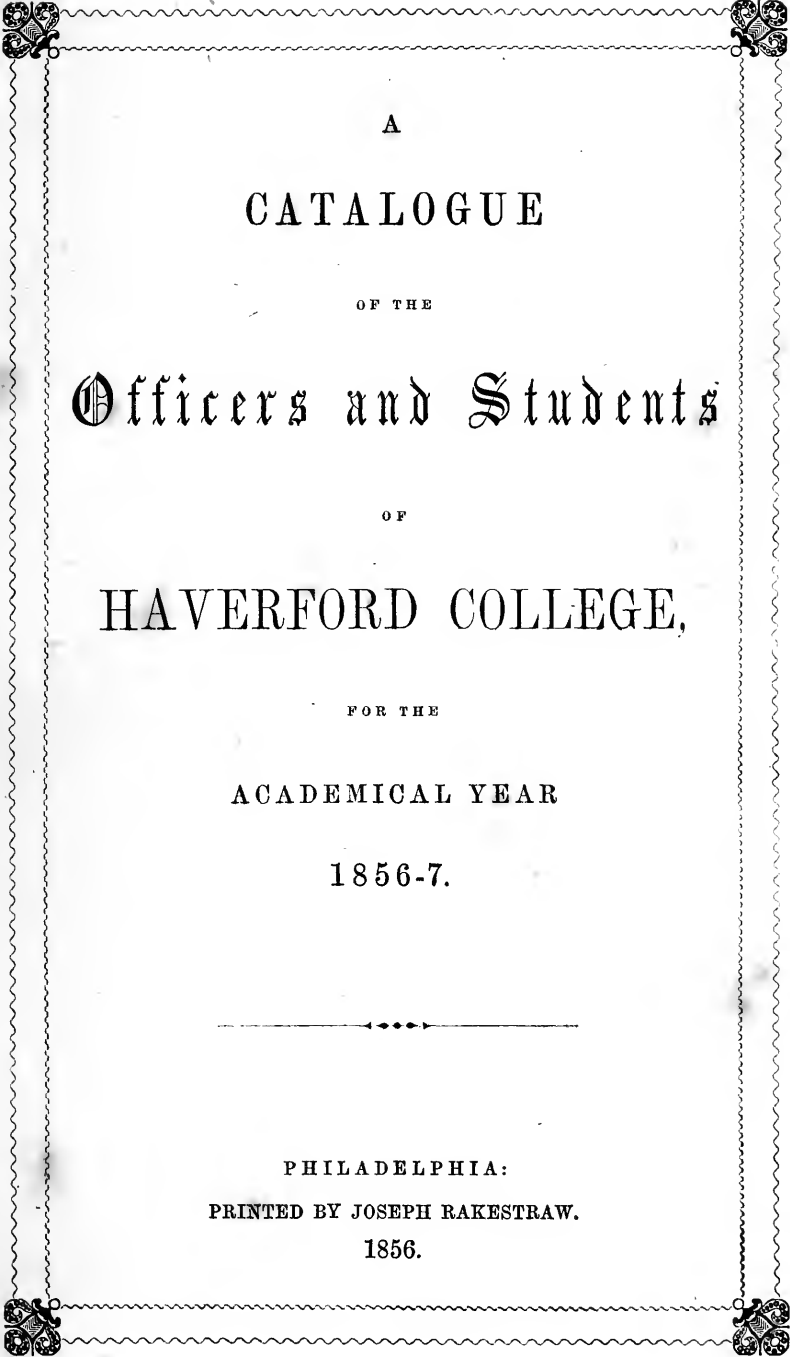
Long may thy ivied walls, thy beauteous lawn,  
Remain in pristine worth these plains upon,  
And peaceful 'mid thy bowers may others rove,  
Hear the sweet songsters in thy leafy grove,  
Tread the steep path to Learning's glorious throne,  
And woo Religion for their loved and own,  
When bloom the wild-flowers o'er the silent graves  
Of those who loved thee in thy early days.

HAVERFORD, 1856.









A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD COLLEGE,  
FOR THE  
ACADEMICAL YEAR  
1856-7.

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PHILADELPHIA:  
PRINTED BY JOSEPH RAKESTRAW.  
1856.

THE UNIVERSITY OF CHICAGO

OFFICE OF THE DEAN

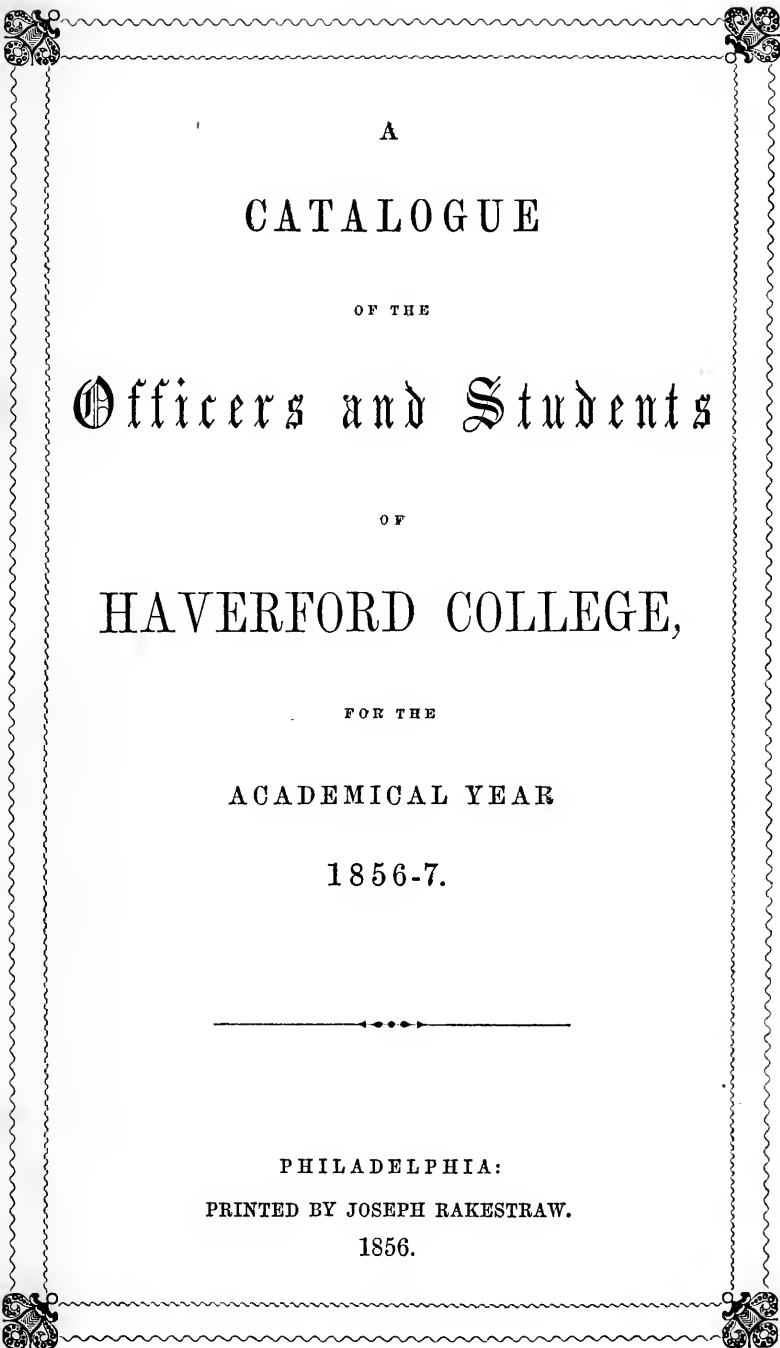
THE UNIVERSITY OF CHICAGO

CHICAGO, ILLINOIS

UNIVERSITY OF CHICAGO

OFFICE OF THE DEAN

1950



A  
CATALOGUE  
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1856-7.

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PRINTED BY JOSEPH RAKESTRAW.  
1856.



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LITERATURE.

TIMOTHY NICHOLSON,

TEACHER OF THE ACADEMICAL DEPARTMENT.

GEORGE STUART, A. B.,

TUTOR IN CLASSICS AND MATHEMATICS.

---

INSTRUCTOR IN DRAWING,

JOHN KERN.

## GRADUATES.

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### 1836.

NAMES.	RESIDENCE.
THOMAS F. COCK, M. D., .....	New York..... N. Y.
JOSEPH WALTON, .....	Philadelphia..... P'a.

### 1837.

WILLIAM C. LONGSTRETH, .....	Philadelphia..... P'a.
DAVID C. MURRAY, .....	New York..... N. Y.
LINDLEY MURRAY, .....	New York..... N. Y.
BENJAMIN V. MARSH, .....	Rahway..... N. J.
JOSEPH L. PENNOCK, .....	Philadelphia... .. P'a.
ROBERT B. PARSONS, .....	Flushing..... N. Y.
CHARLES L. SHARPLESS, .....	Philadelphia..... P'a.
LLOYD P. SMITH, .....	Philadelphia..... P'a.
B. WYATT WISTAR, .....	Philadelphia..... P'a.

### 1838.

JAMES V. EMLEN, M. D., .....	Philadelphia..... P'a.
JOHN ELLIOTT, .....	Philadelphia..... P'a.

### 1839.

FREDERICK COLLINS, .....	Philadelphia..... P'a.
THOMAS P. COPE, .....	Philadelphia..... P'a.
HENRY HARTSHORNE, M. D., .....	Philadelphia..... P'a.
NEREUS MENDENHALL, M. D., ..	Guilford Co..... N. C.
RICHARD RANDOLPH, Jun., M. D.,	Philadelphia..... P'a.
CHARLES TABER, .....	New Bedford..... Mass.

### 1840.

JOSEPH HOWELL, .....	Philadelphia..... P'a.
ANTHONY M. KIMBER, .....	Philadelphia..... P'a.
HENRY H. G. SHARPLESS, .....	Philadelphia..... P'a.
JOHN R. WINSLOW, M. D., .....	Hertford..... N. C.

## 1841.

NAMES.

RESIDENCE.

RICHARD H. LAWRENCE,.....New York.....N. Y.  
 JAMES P. PEROT,.....Philadelphia.....P'a.  
 ELIAS A. WHITE,.....North Carolina.....N. C.

## 1842.

ROBERT BOWNE,.....New York.....N. Y.  
 RICHARD CADBURY,.....Philadelphia.....P'a.  
 WILLIAM S. HILLES,.....Wilmington.....Del.  
 THOMAS KIMBER, Jun. ....Philadelphia.....P'a.  
 JAMES J. LEVICK, M. D.,.....Philadelphia.....P'a.  
 EDMUND RODMAN,.....New Bedford.....Mass.  
 THOMAS RODMAN,.....New Bedford.....Mass.  
 BENJAMIN R. SMITH,.....Haverford.....P'a.  
 AUGUSTUS TABER,.....New Bedford.....Mass.  
 CALEB WINSLOW, M. D.,.....Hertford.....N. C.

## 1843.

ROBERT B. HOWLAND,.....New Bedford.....Mass.  
 FRANCIS WHITE,.....North Carolina.....N. C.  
 WILLIAM D. STROUD, M. D.,.....Philadelphia.....P'a.

## 1844.

EVAN T. ELLIS,.....Philadelphia.....P'a.  
 ISAAC HARTSHORNE,.....Philadelphia.....P'a.  
 ROBERT B. HAINES,.....Germantown.....P'a.

## 1845.

EDMUND CRENSHAW,.....Richmond.....V'a.  
 ROBERT PEARSALL,.....Philadelphia.....P'a.

## 1849.

ALBERT K. SMILEY,.....Vassalborough.....M'e.  
 ALFRED H. SMILEY,.....Vassalborough.....M'e.

## 1851.

JOSEPH L. BAILEY,.....Berks Co.....P'a.  
 PHILIP C. GARRETT,.....Philadelphia.....P'a.  
 THOMAS J. LEVICK,.....Philadelphia.....P'a.  
 FRANKLIN E. PAIGE,.....Weare.....N. H.  
 ZACCHEUS TEST, M. D.,.....Richmond.....Ind.  
 JAMES C. THOMAS, M. D.,.....Baltimore.....M'd.  
 RICHARD WOOD,.....Philadelphia.....P'a.

## 1852.

NAMES.	RESIDENCE.
DOUGAN CLARK, .....	New Garden..... N. C.
LEWIS N. HOPKINS, .....	Baltimore..... M'd.
WILLIAM L. KINSMAN, .....	Salem..... Mass.
WILLIAM E. NEWHALL, .....	Philadelphia..... P'a.
JAMES WHITALL, .....	Philadelphia..... P'a.

## 1853.

WILLIAM B. MORGAN, .....	Raysville..... Ind'a.
WILLIAM H. PANCOAST, ... ..	Philadelphia..... P'a.

## 1854.

FREDERICK ARTHUR, JUN., .....	Nantucket..... R. I.
JOHN W. CADBURY, .....	Philadelphia..... P'a.
JOHN B. GARRETT, .....	Philadelphia..... P'a.
DAVID SCULL, JUN., .....	Philadelphia..... P'a.

## 1855.

SAMUEL BETTLE, .....	Philadelphia..... P'a.
JOHN R. HUBBARD, .....	New Garden..... N. C.

## 1856.

BARTHOLOMEW W. BEESLEY, ..	Philadelphia..... P'a.
JOEL CADBURY, JUN., .....	Philadelphia..... P'a.
JONATHAN J. COMFORT, ... ..	Tecumseh..... Mich.
JAMES M. WALTON, .....	Philadelphia..... P'a.
EDWARD R. WOOD, .....	Philadelphia..... P'a.

# UNDER GRADUATES.

## SENIORS.

NAMES.	RESIDENCE.
Jesse S. Cheyney,.....	Thornbury..... P'a.
*Edgar Cope,.....	Montrose... P'a.
Cyrus Mendenhall,.....	Plainfield..... Ind'a.
Stephen Wood, .....	Bedford..... N. Y.

## JUNIORS.

*Alfred Brooke, .....	West Haverford..... P'a.
Thomas H. Burgess,.....	Harveysburg..... O.
Thomas Clark,.....	Carthago..... Ind'a.
Paschall Hacker,.....	Philadelphia..... P'a.
Daniel W. Hunt,.....	Annapolis..... Ind'a.
*William G. Rhoads,.....	Philadelphia..... P'a.
Samuel T. Satterthwaite,.....	Chesterfield..... N. J.
Joseph W. Starr,.....	Richmond..... Ind'a.
William G. Tyler,.....	Salem..... N. J.
Thomas Wistar,.....	Philadelphia..... P'a.
*James Wood,.....	Bedford..... N. Y.
Ellis H. Yarnall,.....	Philadelphia..... P'a.

## SECOND JUNIORS.

William H. Brown, Jun., .....	Chestnut Hill..... P'a.
Richard W. Chase, .....	Burlington..... N. J.
James W. Cromwell, .....	New York..... N. Y.
Fowell Buxton Hill,.....	New Market..... N. C.
*George H. Hopkins,.....	Haddonfield..... N. J.

\* Pursuing a partial Course.

NAMES.	RESIDENCE.	
Cyrus Lindley,.....	Monrovia.....	Ind'a.
*Henry G. Morris,.....	Philadelphia.....	P'a.
Morton Morris,.....	West Chester.....	P'a.
Theodore H. Morris,.....	Philadelphia.....	P'a.
James R. Magee,.....	Philadelphia.....	P'a.
*Dillwyn Parrish, Jun.,.....	Philadelphia.....	P'a.
*James C. Parrish,.....	Philadelphia.....	P'a.
Richard C. Paxson,.....	Philadelphia.....	P'a.
Edward Rhoads,.....	Philadelphia.....	P'a.
Edward C. Sampson,.....	Manchester.....	Me.
George Sampson,.....	Manchester.....	Me.
*Henry Sampson,.....	Manchester.....	Me.
Abram Sharples,.....	Ivy Mills.....	P'a.
Benjamin H. Smith,.....	Upper Darby.....	P'a.
Thomas C. Steele,.....	Pottstown.....	P'a.
*William I. Tomlinson,.....	Laurel Mills.....	N. J.
*Thomas Wildes,.....	Arney.....	N. J.
John S. Witmer,.....	Paradise.....	P'a.

### THIRD JUNIORS.

Benjamin Brooke,.....	Media.....	P'a.
*William W. Colket,.....	Philadelphia.....	P'a.
William B. Corbit,.....	Odessa.....	Del.
William M. Corlies,.....	Strickersville.....	P'a.
John S. Harris,.....	Westminster.....	N. C.
Walter G. Hopkins,.....	Haddonfield.....	N. J.
William J. Hull,.....	Baltimore.....	M'd.
Benjamin H. Jessup,.....	Cinnaminson.....	N. J.
John A. Lang,.....	Vassalborough.....	M'e.
Joshua Lippincott, Jun.,.....	Cinnaminson.....	N. J.
Frederick W. Morris,.....	Philadelphia.....	P'a.
Isaac N. Merritt,.....	Harts Village.....	N. Y.
Richard Pancoast,.....	Philadelphia.....	P'a.
*Charles I. Pleasants,.....	Sunbury.....	P'a.
Clement L. Smith,.....	Upper Darby.....	P'a.
Thomas C. Smith,.....	Philadelphia.....	P'a.
*Edward B. Underhill, Jun.,.....	White Stone.....	L. I.
William H. Underhill,.....	Indianapolis.....	Ind'a.
Francis A. N. Wood,.....	New York.....	N. Y.
George Wood,.....	Philadelphia.....	P'a.
Edwin Yardley,.....	Yardleyville.....	P'a.

## ACADEMICAL DEPARTMENT.

NAMES.	RESIDENCES.
William Broomall, .....	Chester..... P'a
Joseph Exton, .....	Clinton..... N. J.
Ivins D. Jones, .....	Florence..... N. J.
William N. Potts, .....	Germantown..... P'a.
William E. Smith, .....	Philadelphia..... P'a.
Theodore Starr, .....	Philadelphia..... P'a.
John Spencer Stokes, .....	Moorestown..... N. J.
*Edwin Tomlinson, .....	Laurel Mills..... N. J.
Roberts Vaux, .....	Philadelphia..... P'a.
William H. Willets, .....	New York..... N. Y.

## SUMMARY.

GRADUATES,.....71

## UNDER GRADUATES.

SENIORS, .....4

JUNIORS, .....12


SECOND JUNIORS, .....23

THIRD JUNIORS, .....21

ACADEMICAL STUDENTS, .....10

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 TOTAL, .....70

 APPLICATIONS FOR ADMISSION must be made to the Secretary of the Board of Managers, CHARLES YARNALL, No. 39 Market Street, Philadelphia.

It is desirable that candidates should be equally advanced in the Classical, Mathematical, and English departments, that they may be able to enter in regular standing.

# COURSE OF STUDY.

## THIRD JUNIOR CLASS.

### MATHEMATICS.

Algebra, . . . . .	<i>Alsop.</i>
Elementary Trigonometry, . . . . .	<i>Gummere.</i>
Geometry, . . . . .	<i>First Six Books of Euclid.</i>
Surveying, . . . . .	<i>Gummere, through Ch. 3.</i>

### GREEK AND LATIN LANGUAGES.

Greek Testament, . . . . .	<i>Greenfield.</i>
The Anabasis of Xenophon. . . . .	<i>Owen.</i>
Greek Syntax, . . . . .	<i>Crosby.</i>
Virgil, . . . . .	<i>Schmitz or Gould.</i>
Latin Prosody.	
Latin Prose Composition, . . . . .	<i>Arnold.</i>

### ENGLISH LITERATURE, ETC.

English Compositions.	
Chemistry, . . . . .	<i>Stockhardt.</i>
Universal History, . . . . .	<i>Weber.</i>
Geology, commenced, . . . . .	<i>Hitchcock.</i>
Drawing.	

## SECOND JUNIOR CLASS:

### MATHEMATICS.

Surveying, completed.	
Geometry of Planes.	
Plane and Spherical Trigonometry, . . . . .	<i>Lewis.</i>
Descriptive Astronomy, to Part II., . . . . .	<i>Herschel.</i>



## GREEK AND LATIN LANGUAGES.

The Anabasis of Xenophon, . . . .	<i>Owen.</i>
The Iliad or Odyssey of Homer.	
Greek Prose Composition, . . . .	<i>Arnold.</i>
Cicero's Orations, . . . . .	<i>Johnson.</i>
Livy, . . . . .	<i>Lincoln.</i>
Latin Prose Composition continued.	

## ENGLISH LITERATURE, ETC.

Physical Geography, . . . . .	<i>Guyot.</i>
Geology continued,	
Chemistry, . . . . .	<i>Johnson's Turner's.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>
Drawing.	

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 JUNIOR CLASS.

## MATHEMATICS.

Descriptive Astronomy, continued, . . . .	<i>Herschel.</i>
Natural Philosophy, . . . . .	<i>Olsted.</i>
Analytical Geometry, . . . . .	<i>Davies.</i>

## GREEK AND LATIN LANGUAGES.

The Œdipus Tyrannus of Sophocles, . . . .	<i>Crosby.</i>
Demosthenes on the Crown, . . . . .	<i>Champlin.</i>
Greek Composition, continued, . . . .	<i>Arnold.</i>
Horace, . . . . .	<i>Lincoln.</i>
Tacitus's Germania and Agricola, . . . .	<i>Tyler.</i>
Latin Composition, continued, . . . .	<i>Arnold.</i>
Latin Syntax, . . . . .	<i>Zumpt.</i>

## ENGLISH LITERATURE, ETC.

Rhetoric, . . . . .	<i>Whately</i>
Intellectual Philosophy, . . . . .	<i>Wayland,</i>
Commentaries on American Law, . . . .	<i>Kent.</i>
Moral Philosophy, . . . . .	<i>Dymond.</i>
Themes,	
Drawing.	

## SENIOR CLASS.

## MATHEMATICS.

Practical Astronomy, . . . . .	<i>Loomis.</i>
Differential and Integral Calculus, . . .	<i>Courtenay.</i>

## GREEK AND LATIN LANGUAGES.

Demosthenes on the Crown, completed, . . .	<i>Champlin.</i>
Thucydides, . . . . .	<i>Owen,</i>
Greek Compositions.	
Cicero's Tusculan Disputations, I., . . .	<i>Chase.</i>
Juvenal, . . . . .	<i>Leverett.</i>
The Captivi of Plautus.	
Latin Compositions and Extemporalia.	

## ENGLISH LITERATURE, ETC.

Logic, . . . . .	<i>Whately.</i>
Political Economy, . . . . .	<i>Wayland.</i>
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>

## ACADEMICAL DEPARTMENT.

Arithmetic.	
Algebra, . . . . .	<i>Alsop's First Lessons.</i>
Latin Grammar, . . . . .	<i>Andrews &amp; Stoddard.</i>
Latin Reader, . . . . .	<i>Andrews.</i>
Cæsar, . . . . .	"
Greek Grammar, . . . . .	<i>Crosby or Sophocles.</i>
Greek Reader, . . . . .	<i>Jacob or Felton.</i>
Geography, . . . . .	<i>Pelton's, with Outline Maps.</i>
English Grammar, . . . . .	<i>Brown.</i>
Elements of History.	
English Composition.	
Elocution, . . . . .	<i>Town's Fourth Reader.</i>

## Lectures.

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DURING the Winter Term, Lectures are delivered by the different Teachers, in regular order, on subjects connected with their Departments. The subjects vary from year to year, in order to give each class, in the four years of the collegiate course, as full a view of the different fields illustrated as practicable. The course for the winter of 1856-57 is as follows :

<i>Chemistry,</i> . . . . .	PROFESSOR SWIFT.
<i>Greek Literature,</i> . . . . .	“ CHASE.
<i>Anatomy and Physiology,</i> . . . . .	TIMOTHY NICHOLSON.
<i>Astronomy,</i> . . . . .	TUTOR STUART.

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## Examinations.

Near the close of each Summer Term, there is a Private Examination of the Second Junior 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, and each student is furnished with a set of questions, (the same to each), upon some book 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 subject.

To each question a certain numerical value is assigned, according to its importance and difficulty. The answers in each Department are examined by the Teacher of that Department, who places against each answer that is substantially correct, the number affixed to the corresponding question; except when the answer is either imperfect, or distinguished for merit; in which case, instead of this number, he places a lower or a higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one half of all the numbers in each book studied in the course, and also for two-thirds of all the numbers in each Department, before he can be advanced to the Junior Class, or be graduated and receive the Diploma of a Bachelor of Arts.

At the end of each Term there is a Public Examination of all the Classes.

## Astronomical Observatory.

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With a view of furnishing to the Students in the higher classes, the means of becoming familiar with the construction and use of Astronomical Instruments, and of acquiring, from actual observation, a practical acquaintance with Astronomy, an excellent Observatory has within a few years been erected near the College. The building is of stone, and consists of a central part 20 feet square, and of nearly the same height, with wings 15 feet square to the East and West, and surmounted by a revolving Dome, 19 feet in diameter.

The instruments with which it is furnished, are an Equatorial Telescope; a Meridian Transit Circle; a Prime-Vertical Transit; a Siderial Clock; and Bond's ingenious and beautiful "Spring Governor."

The Equatorial, by Henry Fitz of New York, has an aperture of  $8\frac{1}{2}$  inches, and a focal length of 11 feet. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which rests upon a stone pier 6 feet in diameter, passing through, but not in contact with, the floors of the building, and solidly imbedded several feet below the surface of the ground. The Telescope has an excellent spider-line, and also an annular-micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times. It is likewise provided with a Clock movement, by which the object is kept steadily in the field of view, and whose attachment is such as allows the tube to be turned while the clock is in operation.

In the West wing is mounted the Meridian Circle, of the German form, and made by William J. Young of Philadelphia. It

has an excellent 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. The instrument is supported by marble piers, 5 feet high, firmly based on masonry.

In the Eastern wing is a Siderial Clock by Harpur of Philadelphia, the gift of the late Thomas P. Cope. It is made with a glass pendulum, and the well known mercurial compensation, and is in all respects a most elegant and trustworthy instrument. In the same room with the clock, and connected with it by copper wires,—which wires also lead to a Grove's Battery in a small adjoining apartment and thence to all the other instruments in the Observatory,—is the "Spring Governor." This is the name of an instrument, devised by its inventor, William C. Bond, of Cambridge, Massachusetts, to carry a cylinder, with an equable rotary motion, so that it may make one entire revolution in one minute of Siderial time. A sheet of paper is wrapped around the cylinder, and on this paper the commencement of each second is recorded by a fountain pen, whose movements are produced by a soft iron magnet, coiled with the copper wire which leads to the Battery, and are in exact coincidence with the beats of the clock. The Observer at each Telescope is furnished with a "break-circuit" key, by which means he is enabled to make a record of his observations on the paper covering the cylinder, among the second marks of the clock, in such a manner, and with such accuracy, that the tenths of a second may be read off without difficulty or possibility of error.

The whole cost of the Observatory was about \$7000. Of this, \$2500 was expended upon the building alone; the remainder in furnishing the instruments it contains.

## Library and Apparatus.

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The LIBRARY of the College has been selected with great care. The number of volumes is at present about 2500, additions to which are frequently made. Besides a good selection of classical, scientific, and popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, the most approved Lexicons, and many of the best German commentaries on the Greek and Latin authors.

The Library of the Loganian Society contains about 800 volumes.

A large and expensive APPARATUS has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires. The Classical Department is furnished with Kiepert's valuable series of Wall Maps.

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## Chemical Laboratory.

IN the rear of the Lecture and Apparatus Rooms, is a large, thoroughly ventilated, and well-furnished Laboratory, in which the students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the Professor of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

## Mineralogical and Geological Cabinets.

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THE extensive Mineralogical collection of the late Dr. Troost occupies the cases in the Collection Room. A Geological Cabinet has also been formed, comprising complete suites of specimens illustrating the Geology of New York and South Carolina, prepared for the College by the late Lardner Vanuxem. Continual additions are making to this department.

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## The Loganian Society.

THIS Society, established by the Officers and Students of the School in 1834, has been in successful operation to this time. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, monthly. It has in its possession a carefully selected library of upwards of 800 volumes, a museum of curiosities, and a carpenter's shop, furnished with a lathe and a complete set of tools. A large and well furnished gymnasium, also, is under its direction, and is much used by the members.

Committees are appointed in the Departments of Ornithology, Entomology, Botany, and Meteorology. Their researches and observations are presented to the Society in monthly reports, often of great interest and value. Another Committee has attached labels to the trees and shrubs on the Lawn, bearing their scientific and popular names, thus greatly enhancing the practical value of the Arboretum. Funds for this purpose were kindly furnished by friends of the College.



## Object and Situation of the College.

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ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833. In 1856 an additional act of the Legislature was procured, giving the Institution the rights and title,—as it had always had the character,—of a College.

The College has a remarkably pleasant and healthy location, on the Columbia Rail Road, nine miles west of Philadelphia. The buildings are situated on a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 75. Gas-works have been put up, and gas introduced throughout the buildings.

## Terms, Tuition, Etc.

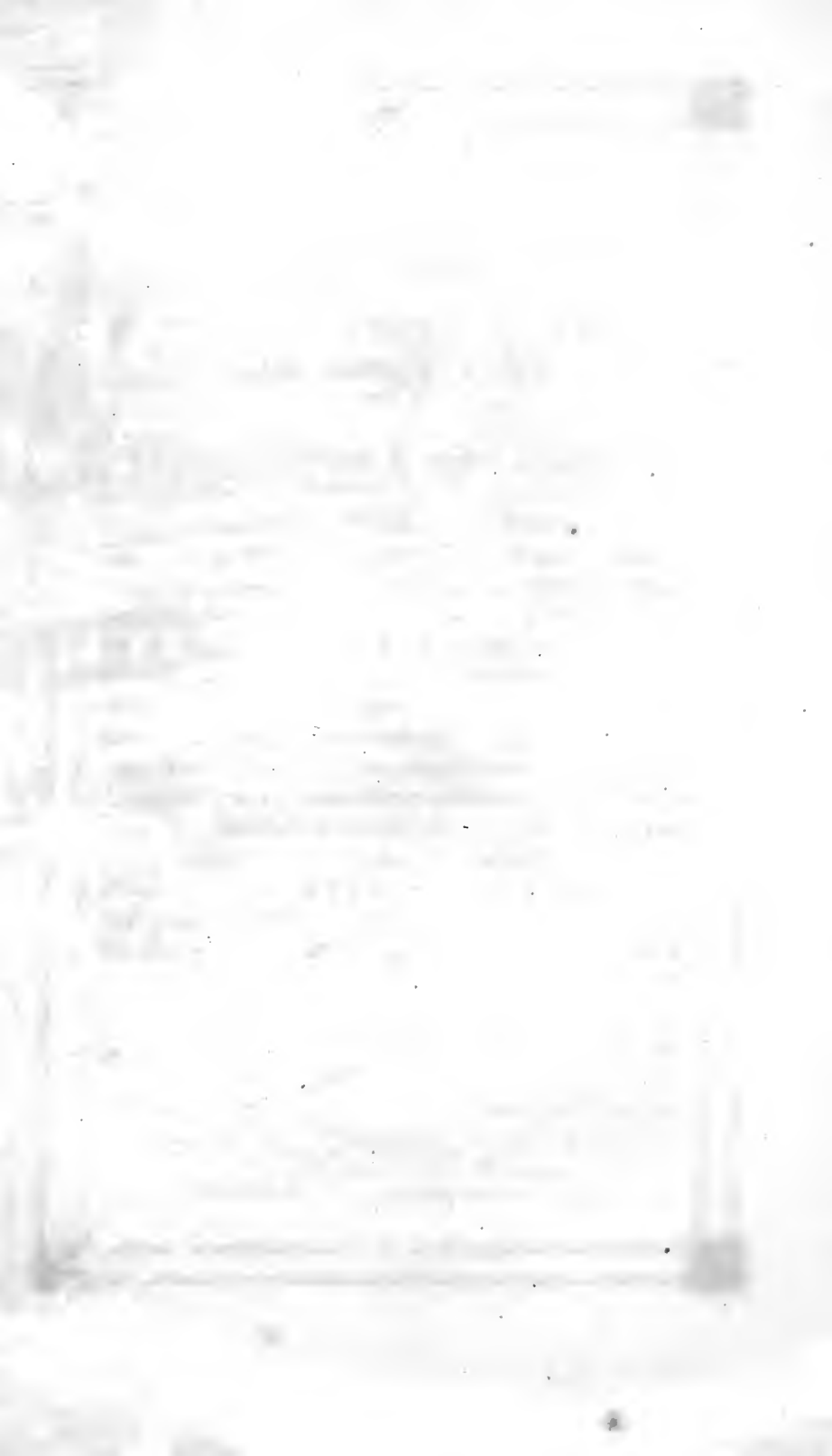
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THERE are two Terms in the year; the Winter Term of six months, commencing on the second Fourth-day in the Tenth month;—and the Summer Term of four months, commencing on the second Fourth-day in the Fifth month. Two vacations occur—one in the Spring and the other in the Autumn. No student is admitted except at the opening of a Term, and never for a period less than one year. A rule of the Association directs, that “The College shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society.”

The price for Board and Tuition is \$250 per annum, payable as follows, viz: \$75 at the opening of the Winter Term, \$75 at the middle of it, and \$100 at the opening of the Summer Term.







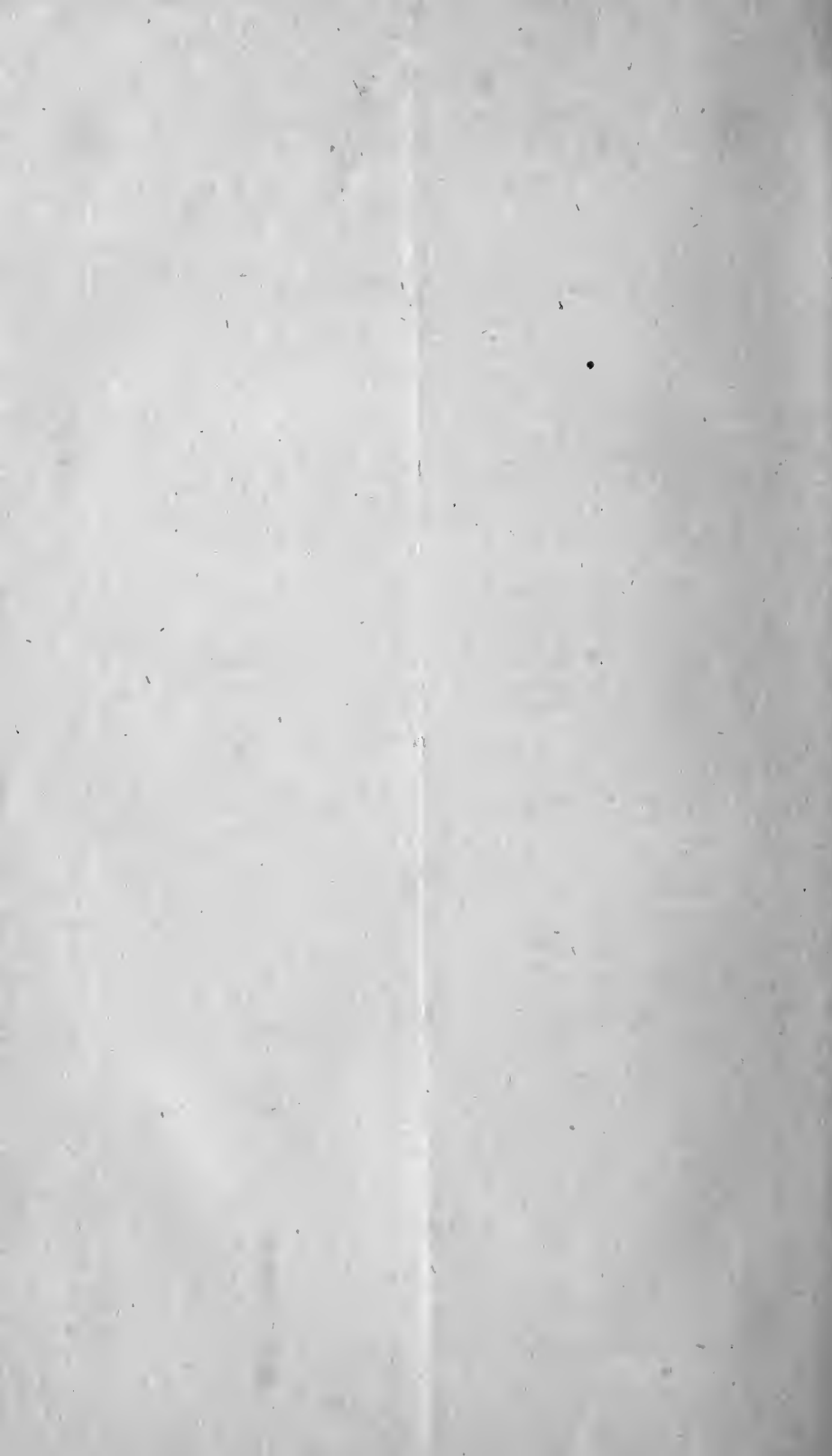


*B. H. A.*

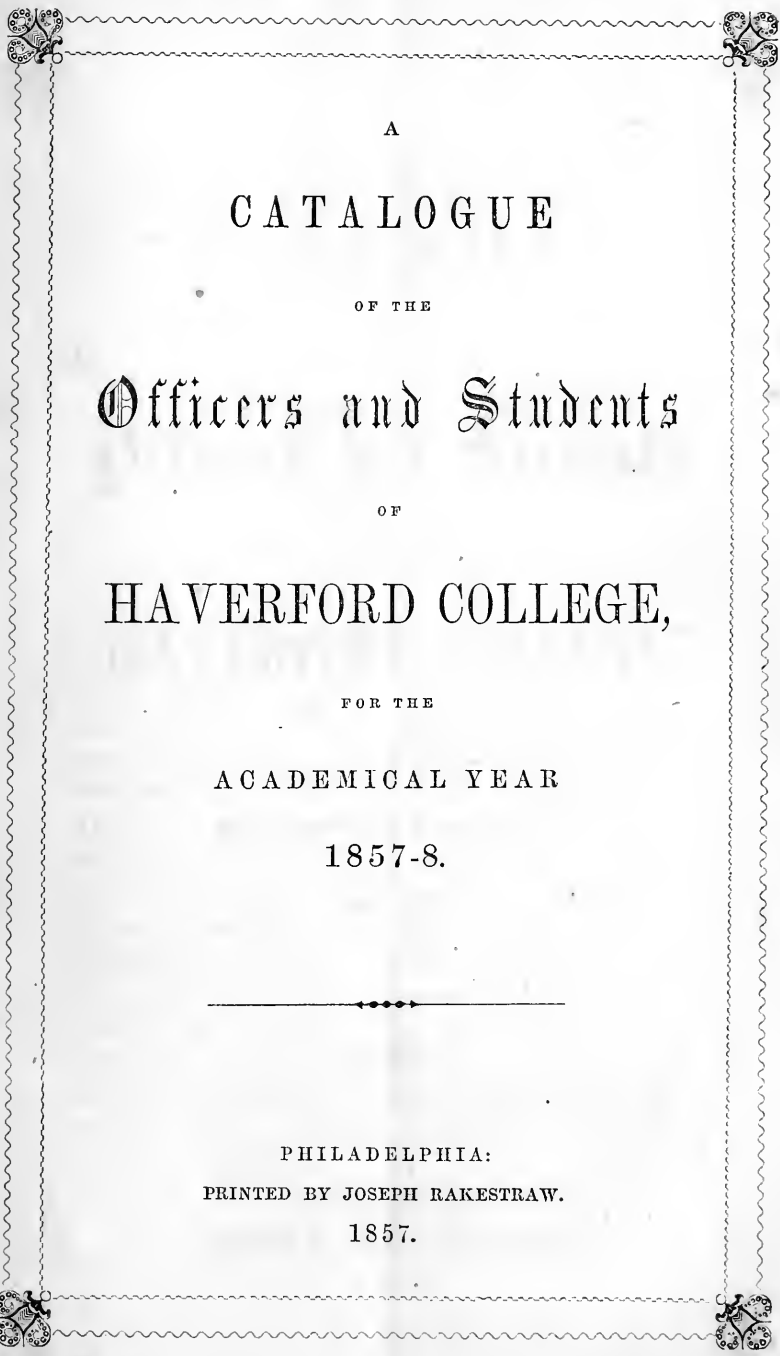
A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD COLLEGE,  
FOR THE  
ACADEMICAL YEAR  
1857-8.

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PHILADELPHIA:  
PRINTED BY JOSEPH RAKESTRAW.  
1857.







A  
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THE HISTORY OF THE

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1660

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# THE UNIVERSITY OF CHICAGO

## PH.D. THESIS

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1836.

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THOMAS F. COCK, M. D.,.....	New York..... N. Y.
JOSEPH WALTON, .....	Philadelphia..... P'a.

1837.

WILLIAM C. LONGSTRETH, .....	Philadelphia..... P'a.
DAVID C. MURRAY,.....	New York..... N. Y.
LINDLEY MURRAY, .....	New York..... N. Y.
BENJAMIN V. MARSH,.....	Rahway..... N. J.
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ROBERT B. PARSONS,.....	Flushing..... N. Y.
CHARLES L. SHARPLESS,.....	Philadelphia..... P'a.
LLOYD P. SMITH,.....	Philadelphia..... P'a.
B. WYATT WISTAR, .....	Philadelphia.... P'a.

1838.

JAMES V. EMLEN, M. D., ...	Philadelphia..... P'a.
JOHN ELLIOTT,.....	Philadelphia..... P'a.

1839.

FREDERICK COLLINS,.....	Philadelphia..... P'a.
THOMAS P. COPE,.....	Philadelphia..... P'a.
HENRY HARTSHORNE, M. D.,...	Philadelphia..... P'a.
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RICHARD RANDOLPH, Jun. M. D.	Philadelphia..... P'a.
CHARLES TABER,.....	New Bedford..... Mass.

1840.

JOSEPH HOWELL, .....	Philadelphia..... P'a.
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HENRY H. G. SHARPLESS,.....	Philadelphia..... P'a.
JOHN R. WINSLOW, M. D.,.....	Hertford.... N. C.

## 1841.

NAMES.	RESIDENCE.
RICHARD H. LAWRENCE,.....	New York..... N. Y.
JAMES P. PEROT,.....	Philadelphia..... P'a.
ELIAS A. WHITE,.....	North Carolina..... N. C.

## 1842.

ROBERT BOWNE,.....	New York..... N. Y.
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THOMAS KIMBER, Jun.....	Philadelphia..... P'a.
JAMES J. LEVICK, M. D.,.....	Philadelphia..... P'a.
EDMUND RODMAN,.....	New Bedford..... Mass.
THOMAS RODMAN,.....	New Bedford..... Mass.
BENJAMIN R. SMITH,.....	Haverford..... P'a.
AUGUSTUS TABER,.....	New Bedford..... Mass.
CALEB WINSLOW, M. D.,.....	Hertford..... N. C.

## 1843.

ROBERT B. HOWLAND,.....	New Bedford..... Mass.
FRANCIS WHITE,.....	North Carolina..... N. C.
WILLIAM D. STROUD, M. D.,.....	Philadelphia..... P'a.

## 1844.

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ROBERT B. HAINES,.....	Germantown..... P'a.

## 1845.

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ROBERT PEARSALL,.....	Philadelphia..... P'a.

## 1849.

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ALFRED H. SMILEY,.....	Vassalborough..... M'e.

## 1851.

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ZACCHEUS TEST, M. D.,.....	Richmond..... Ind.
JAMES C. THOMAS, M. D.,.....	Baltimore..... M'd.
RICHARD WOOD,.....	Philadelphia..... P'a.

## 1852.

NAMES.	RESIDENCE.
DUGAN CLARK,.....	New Garden..... N. C.
LEWIS N. HOPKINS,.....	Baltimore..... M'd.
WILLIAM L. KINSMAN, ...	Salem..... Mass.
WILLIAM E. NEWHALL,.....	Philadelphia..... P'a.
JAMES WHITALL,.....	Philadelphia..... P'a.

## 1853.

WILLIAM B. MORGAN,.....	Raysville..... Ind'a.
WILLIAM H. PANCOAST,.....	Philadelphia..... P'a.

## 1854.

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JOHN W. CADBURY,.....	Philadelphia..... P'a.
JOHN B. GARRETT,.....	Philadelphia..... P'a.
DAVID SCULL, Jun.,.....	Philadelphia..... P'a.

## 1855.

SAMUEL BETTLE,.....	Philadelphia..... P'a.
JOHN R. HUBBARD,.....	New Garden..... N. C.

## 1856.

BARTHOLOMEW W. BEESLEY,..	Philadelphia..... P'a.
JOEL CADBURY, Jun.,.....	Philadelphia..... P'a.
JONATHAN J. COMFORT,.....	Tecumseh..... Mich.
JAMES M. WALTON,.....	Philadelphia..... P'a.
EDWARD R. WOOD,.....	Philadelphia..... P'a.

## 1857.

JESSE S. CHEYNEY,.....	Thornbury..... P'a.
CYRUS MENDENHALL,.....	Plainfield..... Ind'a.
STEPHEN WOOD,.....	Bedford..... N. Y.



## GREEK AND LATIN LANGUAGES.

The Anabasis of Xenophon, . . . .	<i>Owen.</i>
The Iliad or Odyssey of Homer.	
Greek Prose Composition, continued, . .	<i>Arnold.</i>
Cicero's Orations, . . . . .	<i>Johnson.</i>
Livy, . . . . .	<i>Lincoln.</i>
Latin Prose Composition, continued,	<i>Arnold.</i>

## ENGLISH LITERATURE, ETC.

Physical Geography, . . . . .	<i>Guyot.</i>
Geology, continued.	
Chemistry, . . . . .	<i>Johnson's Turner's.</i>
Evidences of Christiauity, . . . . .	<i>Paley.</i>
Drawing.	

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 JUNIOR CLASS.

## MATHEMATICS.

Descriptive Astronomy, continued, . . .	<i>Herschel.</i>
Natural Philosophy, . . . . .	<i>Olmsted.</i>
Analytical Geometry, . . . . .	<i>Davies.</i>

## GREEK AND LATIN LANGUAGES.

The Antigone of Sophocles, . . . . .	<i>Woolsey.</i>
Demosthenes on the Crown, . . . . .	<i>Champlin.</i>
Greek Composition, continued, . . . .	<i>Arnold.</i>
Horace, . . . . .	<i>Lincoln, or Maclean.</i>
Tacitus's Germania and Agricola, . . .	<i>Tyler.</i>
Latin Composition, continued, . . . .	<i>Arnold.</i>
Latin Syntax, . . . . .	<i>Zumpt.</i>

## ENGLISH LITERATURE, ETC.

Rhetoric, . . . . .	<i>Whately.</i>
Gurney's Observations.	
Commentaries on the Law of Nations and American Law, }	<i>Kent.</i>
Moral Philosophy, . . . . .	<i>Dymond.</i>
Themes.	
Drawing.	

## SENIOR CLASS.

## MATHEMATICS.

- Practical Astronomy, . . . . *Loomis.*  
 Differential and Integral Calculus, . . . *Church.*

## GREEK AND LATIN LANGUAGES.

- Demosthenes on the Crown, completed, . *Champlin.*  
 Thucydides, . . . . . *Owen.*  
 Greek Compositions.  
 Cicero's Tusculan Disputations, I, . . . *Chase.*  
 Juvenal, . . . . . *Anthon.*  
 The Captivi of Plautus.  
 Latin Compositions and Extemporalia.

## ENGLISH LITERATURE, ETC.

- Political Economy, . . . . . *Wayland.*  
 Analogy of Natural and Revealed Religion, *Butler.*  
 Logic, . . . . . *Whately.*  
 Intellectual Philosophy, . . . . . *Wayland.*  
 Lectures on Modern History, . . . . *Arnold.*  
 Themes.

## ACADEMICAL DEPARTMENT.

- Arithmetic.  
 Algebra, . . . . . *Alsop's First Lessons.*  
 Latin Grammar, . . . . . *Andrews & Stoddard.*  
 Latin Reader, . . . . . *Andrews.*  
 Cæsar, . . . . . "  
 Greek Grammar, . . . . . *Sophocles.*  
 Greek Reader, . . . . . *Jacob or Felton.*  
 Greek Syntax, . . . . . *Crosby's Grammar, pages 80 & 81.*  
 Geography, . . . . . *Pelton's, with Outline Maps.*  
 English Grammar, . . . . . *Brown.*  
 Elements of History.  
 English Composition.  
 Elocution, . . . . . *Town's Fourth Reader.*

## ADMISSIONS.

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The list of studies in the Academical Department, will indicate the REQUISITIONS FOR ADMISSION into the Third Junior (or Freshman) Class. The best interests of the student demand thorough preparation *in all the studies*, and should prevent undue haste in his application for admission.\*

Students can be admitted to ADVANCED STANDING, when they can pass a satisfactory Examination in all the previous studies of the Course.

APPLICATIONS for Admission must be made to the Secretary of the Board of Managers, CHARLES YARNALL, No. 123 Market Street, Philadelphia. Candidates will present themselves at the College, for Examination by the Faculty, the morning preceding the opening of the Term.

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\* The average age of the present Third Junior Class is sixteen years; an average quite as low as is desirable, considering the maturity of mind which the studies require.

## Lectures.

DURING the Winter Term, Lectures are delivered by the different Professors, on subjects connected with their Departments. The subjects vary from year to year, in order to give each Class, in the four years of the Collegiate Course, as full a view of the different fields illustrated as practicable. The Course for the Winter of 1857-58 is as follows :

<i>Moral Philosophy,</i>	. . . . .	PROFESSOR SWIFT.
<i>Latin Literature,</i>	. . . . .	“ CHASE.
<i>Astronomy,</i>	. . . . .	TUTOR STUART.
<i>Natural Philosophy,</i>	. . . . .	TIMOTHY NICHOLSON.
<i>Intellectual Philosophy,</i>	. . . . .	PROFESSOR CHASE.

## Examinations.

Near the close of each Summer Term, there is a Private Examination of the Second Junior 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 :

## UNDER GRADUATES.

### SENIORS.

NAMES.	RESIDENCE.
Thomas H. Burgess,.....	Harveysburg..... Ohio.
Thomas Clark,.....	Carthage..... Ind'a.
Paschall Hacker,.....	Philadelphia..... P'a.
Daniel W. Hunt,.....	Annapolis..... Ind'a.
*William G. Rhoads,.....	Philadelphia..... P'a.
Samuel T. Satterthwaite,.....	Chesterfield..... N. J.
William G. Tyler,.....	Salem..... N. J.
Thomas Wistar,.....	Philadelphia..... P'a.
Ellis H. Yarnall,.....	Philadelphia..... P'a.

### JUNIORS.

William H. Brown, Jr.,.....	Chestnut Hill..... P'a.
Richard W. Chase,.....	Burlington..... N. J.
*Fowell Buxton Hill,.....	New Market..... N. C.
Cyrus Lindley,.....	Monrovia..... Ind'a.
James R. Magee,.....	Philadelphia..... P'a.
Richard C. Paxson,.....	Philadelphia..... P'a.
Edward Rhoads,.....	Philadelphia..... P'a.
Edward C. Sampson,.....	Manchester..... Me.
George Sampson,.....	Manchester..... Me.
Abram Sharples,.....	Ivy Mills..... P'a.
Benjamin H. Smith,.....	Upper Darby..... P'a.
Thomas C. Steele,.....	Pottstown..... P'a.

\* Pursuing a partial Course.

## SECOND JUNIORS.

NAMES.	RESIDENCE.
Charles Bettle,.....	Philadelphia..... P'a.
Lindley M. Clark,.....	Carthage..... Ind'a.
William B. Corbit,.....	Odessa... Del.
William M. Corlies,.....	Strickersville..... P'a.
William P. Flowers,.....	Newtown..... P'a.
Benjamin H. Jessup,.....	Cinnaminson, P. O.,..... N. J.
John A. Lang,.....	Vassalboro'..... Me.
Joshua Lippincott, Jr.,.....	Cinnaminson, P. O.,..... N. J.
Frederick W. Morris,.....	Philadelphia..... P'a.
Theodore H. Morris,.....	Philadelphia..... P'a.
Richard Panceast,.....	Philadelphia..... P'a.
John W. Pinkham,.....	North Vassalboro'..... Me.
Francis Richardson,.....	Philadelphia..... P'a.
Clement L. Smith,.....	Upper Darby..... P'a.
Thomas C. Smith,.....	Philadelphia..... P'a.
*George M. Tatum,.....	Woodbury..... N. J.
James Tyson,.....	Reading..... P'a.
Silas A. Underhill,.....	Brooklyn..... L. I.
William H. Underhill,.....	Indianapolis..... Ind'a.
John S. Witmer,.....	Paradise..... P'a.
Francis A. N. Wood,.....	New York City..... N. Y.
Edwin Yardley,.....	Yardleyville..... P'a.

## THIRD JUNIORS.

Edward Bettle,....	Philadelphia..... P'a.
Henry Bettle,.....	Philadelphia..... P'a.
William B. Broomall,.....	Chester..... P'a.
Howard F. Harkness,.....	Philadelphia..... P'a.
William J. Hull,.....	Baltimore..... Md.
C. Henry Jones,.....	Tamaqua..... P'a.
Ivins D. Jones,.....	Florence..... N. J.
Thomas W. Lamb,....	Newby's Bridge..... N. C.
Charles Lippincott,.....	Cinnaminson, P. O.,..... N. J.
Anthony J. Morris,.....	Pemberton..... N. J.
John B. Mott,.....	New York City..... N. Y.
Samuel Parsons,.....	Flushing..... L. I.
William N. Potts,.....	Germantown..... P'a.

NAMES.	RESIDENCE.
Theodore Starr,.....	Philadelphia..... P'a.
John Street,.....	Carthage..... Ind'a.
John C. Thomas,.....	Baltimore..... Md.
*Edwin Tomlinson,.....	Laurel Mills..... N. J.
George Wood,.....	Philadelphia..... P'a.

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## ACADEMICAL DEPARTMENT.

Horace G. Lippincott,.....	Philadelphia..... P'a.
James T. Morris,.....	Philadelphia..... P'a.
J. Spencer Stokes,.....	Moorestown..... N. J.
Roberts Vaux,.....	Philadelphia..... P'a.
Randolph Wood,.....	Philadelphia..... P'a.
*William H. Willets,.....	New York City..... N. Y.

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## SUMMARY.

GRADUATES,.....74

### UNDER GRADUATES.

SENIORS, .....9  
 JUNIORS, .....12  
 SECOND JUNIORS, .....22  
 THIRD JUNIORS, .....18  
 ACADEMICAL STUDENTS.....6

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TOTAL,.....67

# COURSE OF STUDY.

## THIRD JUNIOR CLASS.

### MATHEMATICS.

Algebra, . . . . .	<i>Alsop.</i>
Elementary Trigonometry, . . . . .	<i>Gummere.</i>
Geometry, . . . . .	<i>First Six Books of Euclid.</i>
Surveying, . . . . .	<i>Gummere, through Ch. 3.</i>

### GREEK AND LATIN LANGUAGES.

Greek Testament, . . . . .	<i>Greenfield.</i>
The Anabasis of Xenophon, . . . . .	<i>Owen.</i>
Greek Syntax, . . . . .	<i>Crosby.</i>
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Virgil, . . . . .	<i>Schmitz or Gould.</i>
Latin Prosody, . . . . .	
Latin Prose Composition, . . . . .	<i>Arnold.</i>

### ENGLISH LITERATURE, ETC.

English Compositions, . . . . .	
Chemistry, . . . . .	<i>Stöckhardt.</i>
Universal History, . . . . .	<i>Weber.</i>
Geology, commenced, . . . . .	<i>Hitecock.</i>
Drawing, . . . . .	

## SECOND JUNIOR CLASS.

### MATHEMATICS.

Surveying, completed, . . . . .	
Geometry of Planes, . . . . .	
Plane and Spherical Trigonometry, . . . . .	<i>Lewis.</i>
Descriptive Astronomy, to Part II, . . . . .	<i>Herschel.</i>



The members of the Class under Examination are seated in a room by themselves, and each student is furnished with a set of questions, (the same to each,) 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 subject.

To each question a certain numerical value is assigned, according to its importance and difficulty. The answers in each Department are examined by the Professor in that Department, who places against each answer that is substantially correct, the number affixed to the corresponding question; except when the answer is either imperfect, or distinguished for merit; in which case, instead of this number, he places a lower or a higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one half of all the numbers in each book studied in the Course, and also for two-thirds of all the numbers in each Department, before he can be advanced to the Junior Class, or be graduated and receive the Diploma of a Bachelor of Arts.

At the end of each Term there is a Public Examination of all the Classes.

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## Degree of Master of Arts.

GRADUATES of three years standing, can take the Degree of Master of Arts, on submitting to the Committee on Instruction satisfactory evidence of continued good moral character, and presenting a Thesis on some literary or scientific subject, which shall receive the approbation of the Faculty.

## Astronomical Observatory.

With a view of furnishing to the Students in the higher Classes the means of becoming familiar with the construction and use of Astronomical Instruments, and of acquiring, from actual observation, a practical acquaintance with Astronomy, an excellent OBSERVATORY has been erected near the College. The building is of stone, and consists of a central part 20 feet square, and of nearly the same height, with wings 15 feet square to the East and West, and surmounted by a revolving Dome, 19 feet in diameter.

The Instruments with which it is furnished, are an Equatorial Telescope; a Meridian Transit Circle; a Prime-Vertical Transit; a Sidereal Clock, and Bond's ingenious and beautiful "Spring Governor."

The Equatorial, by Henry Fitz of New York, has an aperture of  $8\frac{1}{4}$  inches, and a focal length of 11 feet. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which rests upon a stone pier 6 feet in diameter, passing through, but not in contact with, the floors of the building, and solidly imbedded several feet below the surface of the ground. The Telescope has an excellent spider-line, and also an annular-micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times. It is likewise provided with a Clock movement, by which the object is kept steadily in the field of view, and whose attachment is such as allows the tube to be turned while the Clock is in operation.

In the West wing is mounted the Meridian Circle, of the German form, and made by William J. Young of Philadelphia.

It has an excellent 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. The Instrument is supported by marble piers, 5 feet high, firmly based on masonry.

In the Eastern wing is a Sidereal Clock by Harpur of Philadelphia, the gift of the late Thomas P. Cope. It is made with a glass pendulum, and the well known mercurial compensation, and is in all respects a most elegant and trustworthy instrument. In the same room with the Clock, and connected with it by copper wires,—which wires also lead to a Grove's Battery in a small adjoining apartment and thence to all the other instruments in the Observatory,—is the "Spring Governor." This is the name of an instrument, devised by its inventor, William C. Bond, of Cambridge, Massachusetts, to carry a cylinder, with an equable rotary motion, so that it may make one entire revolution in one minute of Sidereal time. A sheet of paper is wrapped around the cylinder, and on this paper the commencement of each second is recorded by a fountain pen, whose movements are produced by a soft iron magnet, coiled with the copper wire which leads to the Battery, and are in exact coincidence with the beats of the Clock. The Observer at each Telescope is furnished with a "break-circuit" key, by which means he is enabled to make a record of his observations on the paper covering the cylinder, among the second marks of the Clock, in such a manner, and with such accuracy, that the tenths of a second may be read off without difficulty or possibility of error.

The whole cost of the Observatory was about \$7000. Of this, \$2500 was expended upon the building alone; the remainder in furnishing the instruments it contains.

## Library and Apparatus.

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The LIBRARY of the College has been selected with great care. The number of volumes is at present about 2500, additions to which are frequently made. Besides a good selection of classical, scientific, and popular works in various departments, it includes the valuable mathematical collection of the late John Gummeré, the most approved Lexicons, and many of the best German commentaries on the Greek and Latin authors.

The Library of the Loganian Society contains about 1000 volumes; making the whole number of books in the two Libraries, 3500.

A large and expensive APPARATUS has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires.

The extensive MINERALOGICAL COLLECTION of the late Dr. Troost occupies the cases in the Collection Room. A GEOLOGICAL CABINET has also been formed, comprising complete suites of specimens illustrating the Geology of New York and South Carolina, prepared for the College by the late Lardner Vanuxem. Continual additions are making to this department.

For the illustration of Ancient Geography, the College is furnished with Kiepert's series of WALL MAPS.

In the rear of the Lecture and Apparatus Rooms, is a large, thoroughly ventilated, and well-furnished LABORATORY, in which the students are familiarized with Chemical Manipulations. These operations are conducted under the supervision of the Professor of Chemistry, and afford ample means for a practical acquaintance with this important branch of study.

## The Logonian Society.

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THIS Society, established by the Officers and Students of Haverford School in 1834, has been in successful operation to this time. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, monthly. It has in its possession a carefully selected library of nearly 1000 volumes, a museum of curiosities, and a carpenter's shop, furnished with a lathe and tools. A large and well-furnished Gymnasium, also, is under its direction, and is much used by the members.

A Committee of the Society has attached labels to the trees and shrubs on the Lawn, bearing their scientific and popular names, thus greatly enhancing the practical value of the Arboretum. Funds for this purpose were kindly furnished by friends of the College.

## Object and Situation of the College.

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ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833. In 1856 an additional act of the Legislature was procured, giving the Institution the rights and title,—as it had always had the character—of a College.

The College has a remarkably pleasant and healthy location, on the Pennsylvania Rail Road, nine miles west of Philadelphia. The buildings are situated on a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the state. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 70.

## Commencement, Terms, Tuition, Etc.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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-one weeks, beginning two 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 two 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 Association directs, that “The College shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society.”

The price of Board and Tuition is \$250 per annum, payable as follows, viz: \$75 at the opening of each Term, and \$50 at the middle of it.









*Joel Wadsworth*

A

CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE,

FOR THE

ACADEMICAL YEAR

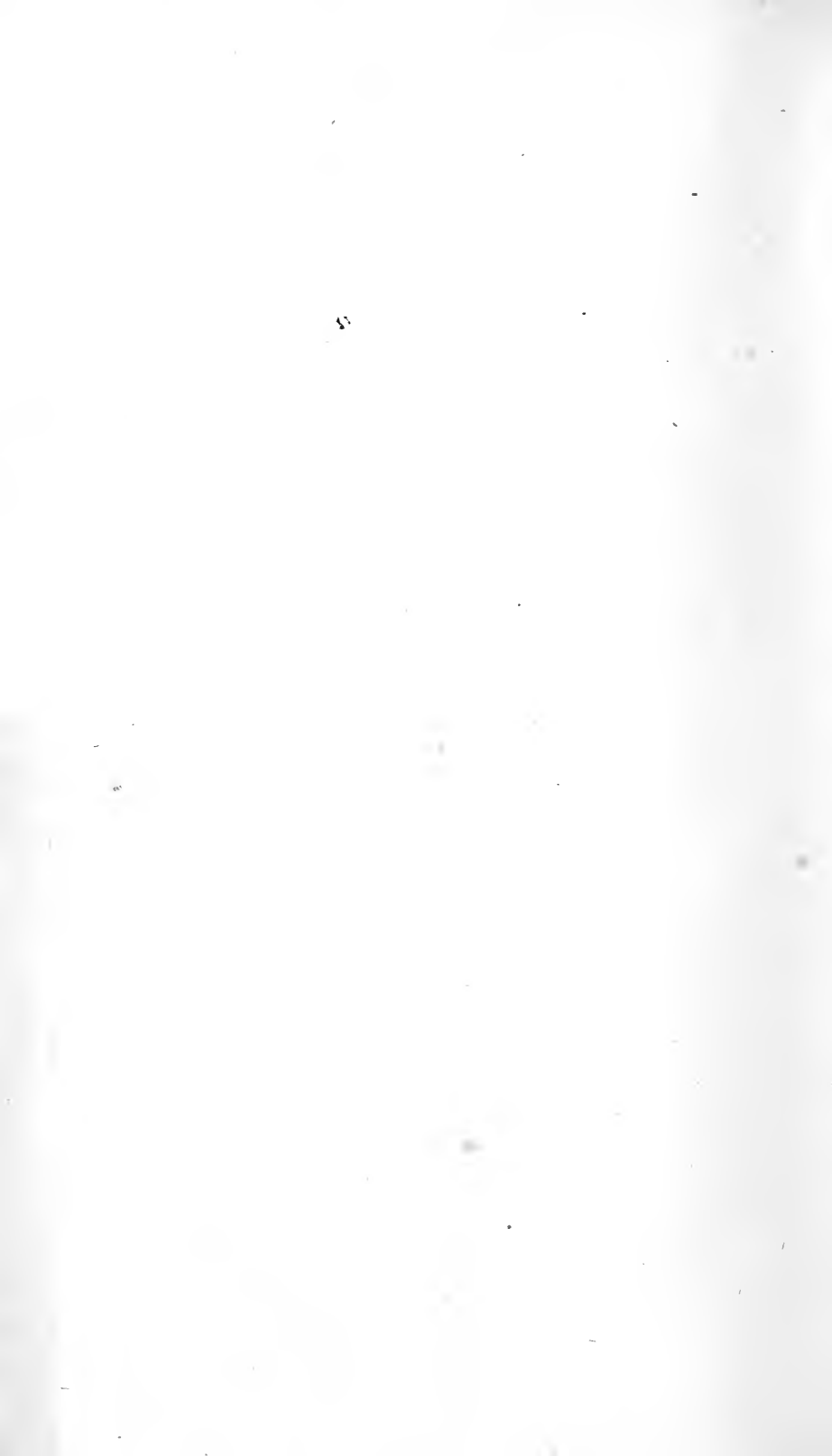
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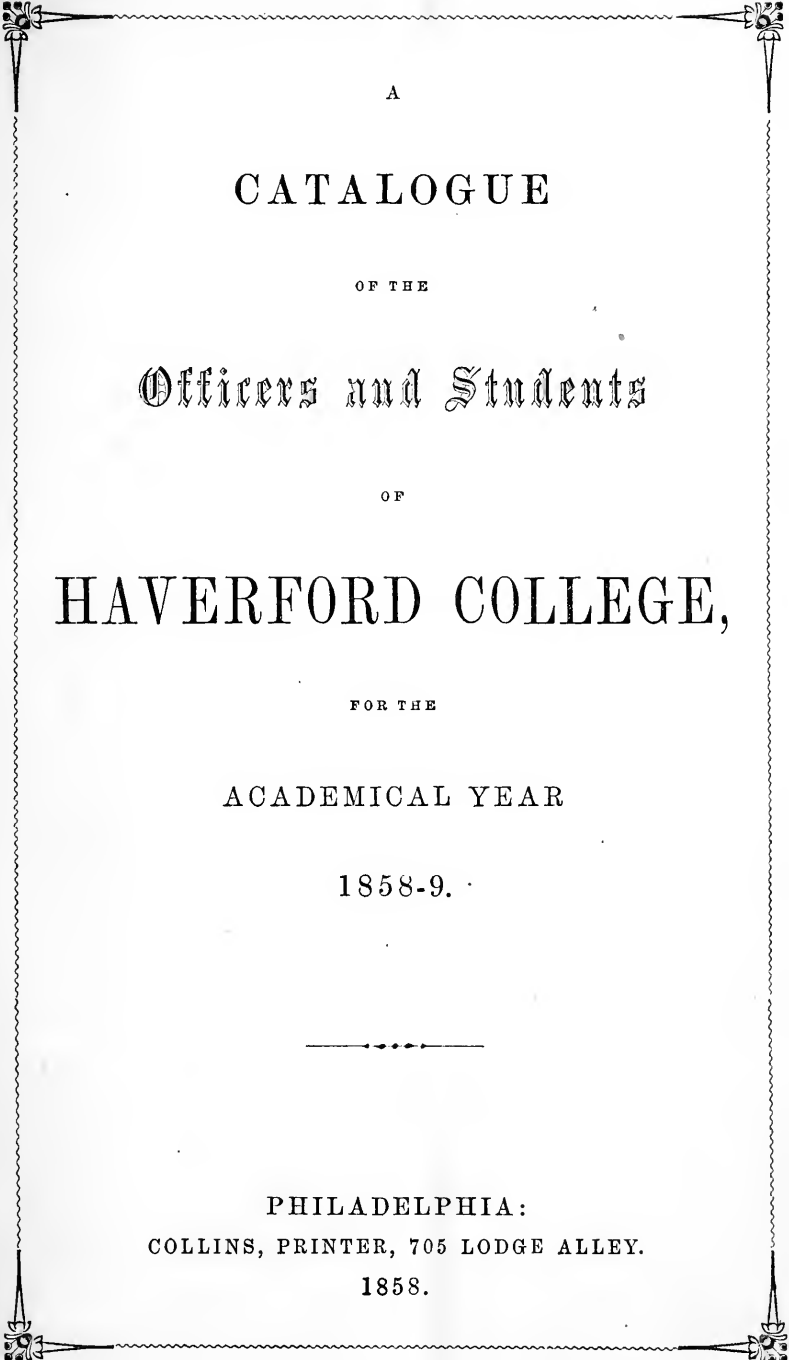
1858.



Joel Cadbury  
From G. Wood



Illustration of the College  
Harvard College



A  
CATALOGUE  
OF THE  
*Officers and Students*  
OF  
HAVERFORD COLLEGE,  
FOR THE  
ACADEMICAL YEAR  
1858-9.

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1858.

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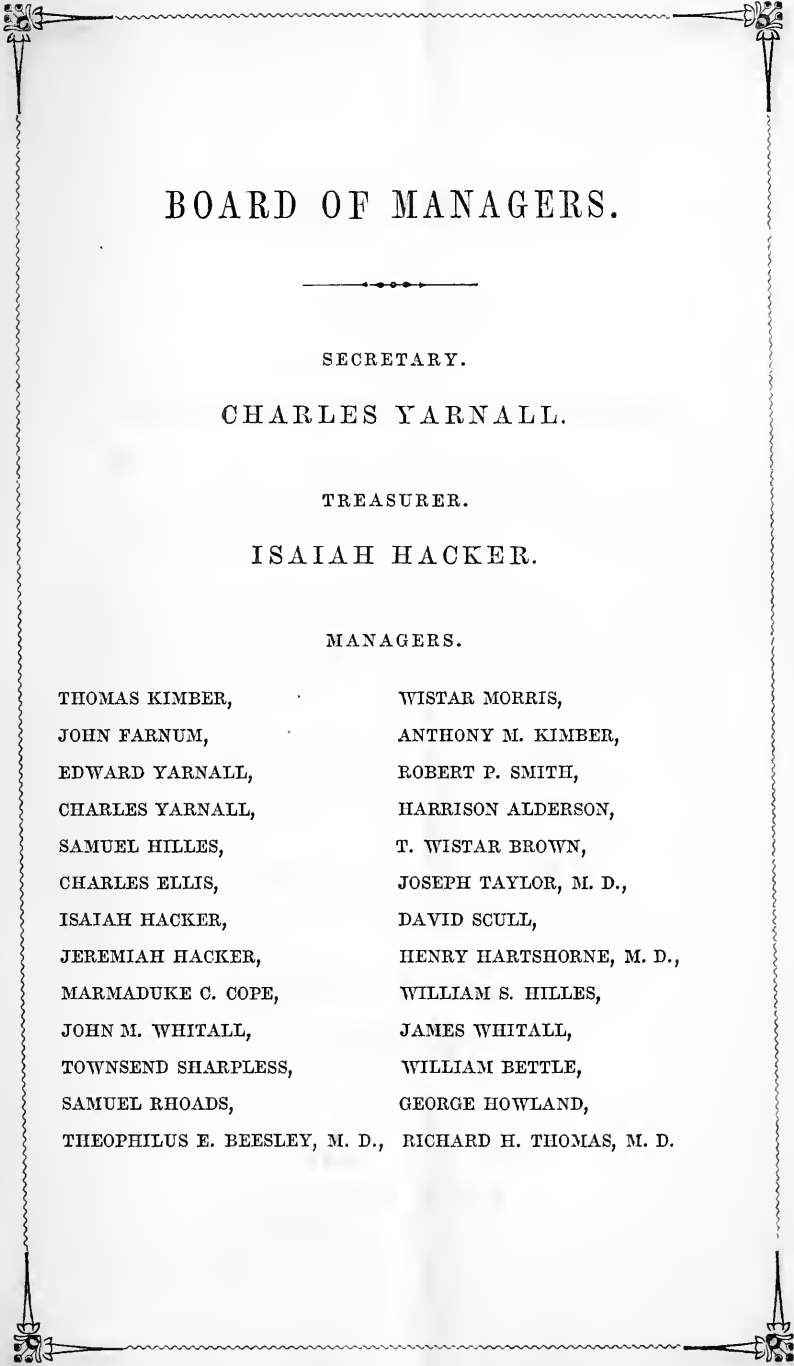
UNIVERSITY OF CALIFORNIA

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UNIVERSITY OF CALIFORNIA

LIBRARY





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FACULTY.

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PROFESSOR OF ENGLISH LITERATURE AND NATURAL SCIENCE.

THOMAS CHASE, A. M.,

PROFESSOR OF THE GREEK AND LATIN LANGUAGES AND ANCIENT  
LITERATURE.

MOSES C. STEVENS,

PROFESSOR OF MATHEMATICS, NATURAL PHILOSOPHY, AND ASTRONOMY.

GEORGE STUART, A. M.,

TUTOR IN CLASSICS AND MATHEMATICS.

TIMOTHY NICHOLSON,

TEACHER OF THE ACADEMICAL DEPARTMENT.

JOSEPH JONES,

SUPERINTENDENT.

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INSTRUCTOR IN DRAWING.

JOHN KERN.



# GRADUATES.

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1836.

NAMES.	RESIDENCE.
THOMAS F. COCK, M. D., . . .	New York . . . . . N. Y.
JOSEPH WALTON, . . . . .	Philadelphia . . . . . P'a.

1837.

WILLIAM C. LONGSTRETH, . . . . .	Philadelphia . . . . . P'a.
DAVID C. MURRAY, . . . . .	New York . . . . . N. Y.
LINDLEY MURRAY, . . . . .	New York . . . . . N. Y.
BENJAMIN V. MARSH, . . . . .	Rahway . . . . . N. J.
JOSEPH L. PENNOCK, . . . . .	Philadelphia . . . . . P'a.
ROBERT B. PARSONS, . . . . .	Flushing . . . . . N. Y.
CHARLES L. SHARPLESS, . . . . .	Philadelphia . . . . . P'a.
LLOYD P. SMITH, . . . . .	Philadelphia . . . . . P'a.
B. WYATT WISTAR, . . . . .	Philadelphia . . . . . P'a.

1838.

JAMES V. EMLLEN, M. D., . . . . .	Philadelphia . . . . . P'a.
JOHN ELLIOTT, . . . . .	Philadelphia . . . . . P'a.

1839.

FREDERICK COLLINS, . . . . .	Philadelphia . . . . . P'a.
THOMAS P. COPE, . . . . .	Philadelphia . . . . . P'a.
HENRY HARTSHORNE, M. D., . . . . .	Philadelphia . . . . . P'a.
NEREUS MENDENHALL, M. D., . . . . .	Guilford Co., . . . . . N. C.
RICHARD RANDOLPH, Jun. M. D., . . . . .	Philadelphia . . . . . P'a.
CHARLES TABER, . . . . .	New Bedford, . . . . . Mass.

## 1840.

NAMES.	RESIDENCE.
JOSEPH HOWELL, . . . .	Philadelphia . . . . P'a.
ANTHONY M. KIMBER, . . . .	Philadelphia . . . . P'a.
HENRY H. G. SHARPLESS, . . . .	Philadelphia . . . . P'a.
JOHN R. WINSLOW, M. D., . . . .	Hertford . . . . N. C.

## 1841.

RICHARD H. LAWRENCE, . . . .	New York . . . . N. Y.
JAMES P. PEROT, . . . .	Philadelphia . . . . P'a.
ELIAS A. WHITE, . . . .	North Carolina . . . . N. C.

## 1842.

ROBERT BOWNE, . . . .	New York . . . . N. Y.
RICHARD CADBURY, . . . .	Philadelphia . . . . P'a.
WILLIAM S. HILLES, . . . .	Wilmington . . . . Del.
THOMAS KIMBER, Jun., . . . .	Philadelphia . . . . P'a.
JAMES J. LEVICK, M. D., . . . .	Philadelphia . . . . P'a.
EDMUND RODMAN, . . . .	New Bedford . . . . Mass.
THOMAS RODMAN, . . . .	New Bedford . . . . Mass.
BENJAMIN R. SMITH, . . . .	Haverford . . . . P'a.
AUGUSTUS TABER, . . . .	New Bedford . . . . Mass.
CALEB WINSLOW, M. D., . . . .	Hertford . . . . N. C.

## 1843.

ROBERT B. HOWLAND, . . . .	New Bedford . . . . Mass.
FRANCIS WHITE, . . . .	North Carolina . . . . N. C.
WILLIAM D. STROUD, M. D., . . . .	Philadelphia . . . . P'a.

## 1844.

EVAN T. ELLIS, . . . .	Philadelphia . . . . P'a.
ISAAC HARTSHORNE . . . .	Philadelphia . . . . P'a.
ROBERT B. HAINES, . . . .	Germantown . . . . P'a.

## 1845.

EDMUND CRENSHAW, . . . .	Richmond . . . . Va.
ROBERT PEARSALL, . . . .	Philadelphia . . . . P'a.

## 1849.

ALBERT K. SMILEY, . . . .	Vassalborough . . . . M'e.
ALFRED H. SMILEY, . . . .	Vassalborough . . . . M'e.

## 1851.

NAMES.	RESIDENCE.
JOSEPH L. BAILEY, . . .	Berks Co. . . . . P'a.
PHILIP C. GARRETT, . . .	Philadelphia . . . . . P'a.
THOMAS J. LEVICK, . . .	Philadelphia . . . . . P'a.
FRANKLIN E. PAIGE, A. M., . .	Weare . . . . . N. H.
ZACCHEUS TEST, M. D., . . .	Richmond . . . . . Ind.
JAMES C. THOMAS, M. D., . . .	Baltimore . . . . . M'd.
RICHARD WOOD, . . . . .	Philadelphia . . . . . P'a.

## 1852.

DUGAN CLARK, . . . . .	New Garden . . . . . N. C.
LEWIS N. HOPKINS, . . . . .	Baltimore . . . . . M'd.
WILLIAM L. KINSMAN, . . . . .	Salem . . . . . Mass.
WILLIAM E. NEWHALL, . . . . .	Philadelphia . . . . . P'a.
JAMES WHITALL, . . . . .	Philadelphia . . . . . P'a.

## 1853.

WILLIAM B. MORGAN, A. M., . .	Raysville . . . . . Ind'a.
WILLIAM H. PANCOAST, . . . . .	Philadelphia . . . . . P'a.

## 1854.

FREDERICK ARTHUR, Jun., . . .	Nantucket . . . . . Mass.
JOHN W. CADBURY, . . . . .	Philadelphia . . . . . P'a.
JOHN B. GARRETT, . . . . .	Philadelphia . . . . . P'a.
DAVID SCULL, Jun., . . . . .	Philadelphia . . . . . P'a.

## 1855.

SAMUEL BETTLE, . . . . .	Philadelphia . . . . . P'a.
JOHN R. HUBBARD, . . . . .	New Garden . . . . . N. C.

## 1856.

BARTHOLOMEW W. BEESLEY, . .	Philadelphia . . . . . P'a.
JOEL CADBURY, Jun., . . . . .	Philadelphia . . . . . P'a.
JONATHAN J. COMFORT, M. D., .	Tecumseh . . . . . Mich.
JAMES M. WALTON, . . . . .	Philadelphia . . . . . P'a.
EDWARD R. WOOD, . . . . .	Philadelphia . . . . . P'a.

1857.

NAMES.	RESIDENCE.
JESSE S. CHEYNEY, . . .	Thornbury . . . . P'a.
CYRUS MENDENHALL, . . .	Plainfield . . . . Ind'a.
STEPHEN WOOD, . . . .	Bedford . . . . N. Y.

1858.

THOMAS H. BURGESS, . . .	Harveysburg . . . . Ohio.
THOMAS CLARK, . . . .	Carthage . . . . Ind'a.
DANIEL W. HUNT, . . . .	Annapolis . . . . Ind'a.
SAMUEL T. SATTERTHWAITE, . . .	Chesterfield . . . . N. J.
WILLIAM G. TYLER, . . . .	Salem . . . . N. J.
THOMAS WISTAR, . . . .	Philadelphia . . . . P'a.
ELLIS H. YARNALL, . . . .	Philadelphia . . . . P'a.

## HONORARY DEGREES.

1858.

HUGH D. VAIL, A. M., . . .	Plainfield . . . . N. J.
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# UNDER-GRADUATES.

## SENIORS.

NAMES.	RESIDENCE.
Chase, Richard W. . . . .	Burlington . . . . . N. J.
Magee, James R. . . . .	Philadelphia . . . . . P'a.
Paxson, Richard C. . . . .	Philadelphia . . . . . P'a.
Rhoads, Edward . . . . .	Philadelphia . . . . . P'a.
Sampson, Edward C. . . . .	Manchester . . . . . M'e.
Sampson, George . . . . .	Manchester . . . . . M'e.
Sharples, Abram . . . . .	Ivy Mills . . . . . P'a.
Smith, Benjamin H. . . . .	Upper Darby . . . . . P'a.

## JUNIORS.

Clark, Lindley M. . . . .	Carthage . . . . . Ind'a.
Corbit, William B. . . . .	Odessa . . . . . Del.
Corlies, William M. . . . .	Strickersville . . . . . P'a.
Lang, John A. . . . .	Vassalboro . . . . . M'e.
Lindley, Cyrus . . . . .	Monrovia . . . . . Ind'a.
Morris, Frederick W. . . . .	Philadelphia . . . . . P'a.
Morris, Theodore H. . . . .	Philadelphia . . . . . P'a.
Pancoast, Richard . . . . .	Philadelphia . . . . . P'a.
Pinkham, John W. . . . .	North Vassalboro . . . . . M'e.
Richardson, Francis . . . . .	Philadelphia . . . . . P'a.
*Sampson, Henry . . . . .	Manchester . . . . . M'e.
Smith, Clement L. . . . .	Upper Darby . . . . . P'a.
Tyson, James . . . . .	Reading . . . . . P'a.
Underhill, Silas A. . . . .	Brooklyn . . . . . L. I.
Yardley, Edwin . . . . .	Yardleyville . . . . . P'a.

\* Pursuing a partial course.

## SOPHOMORES.

NAMES.	RESIDENCE.
Bettle, Charles . . . . .	Philadelphia . . . . . P'a.
Bettle, Edward . . . . .	Philadelphia . . . . . P'a.
Bettle, Henry . . . . .	Philadelphia . . . . . P'a.
Broomall, William B. . . . .	Chester . . . . . P'a.
Flowers, William P. . . . .	Newtown . . . . . P'a.
Harkness, Howard F. . . . .	Philadelphia . . . . . P'a.
Jones, C. Henry . . . . .	Tamaqua . . . . . P'a.
Jones, Ivins D. . . . .	Florence . . . . . N. J.
Lamb, Thomas W. . . . .	Newby's Bridge . . . . . N. C.
Lippincott, Charles . . . . .	Cinnaminson, . . . . . N. J.
Mellor, Alfred . . . . .	Philadelphia . . . . . P'a.
Potts, William N. . . . .	Germantown . . . . . P'a.
Starr, Theodore . . . . .	Philadelphia . . . . . P'a.
Stuart, Jehu H. . . . .	Westminster . . . . . N. C.
*Tomlinson, Edwin . . . . .	Laurel Mills . . . . . N. J.
Thomas, John C. . . . .	Baltimore . . . . . Md.
Wood, Francis A. N. . . . .	New York City . . . . . N. Y.
Wood, George . . . . .	Philadelphia . . . . . P'a.

## FRESHMEN.

Coates, Henry T. . . . .	Philadelphia . . . . . P'a.
Cox, Robert B. . . . .	Hertford . . . . . N. C.
Farnum, Samuel . . . . .	Millville . . . . . Mass.
Hadley, Samuel A. . . . .	Osceola . . . . . Io.
Haines, Samuel B. . . . .	Philadelphia . . . . . P'a.
Lippincott, Heulings . . . . .	Cinnaminson . . . . . N. J.
Lippincott, Horace G. . . . .	Philadelphia . . . . . P'a.
Mellor, George B. . . . .	Philadelphia . . . . . P'a.
Morris, Anthony J. . . . .	Pemberton . . . . . N. J.
Morris, James T. . . . .	Philadelphia . . . . . P'a.
Mott, John B. . . . .	New York City . . . . . N. Y.
Pancoast, Henry B. . . . .	Philadelphia . . . . . P'a.
Parsons, Samuel . . . . .	Flushing . . . . . L. I.
Starr, Edward . . . . .	Philadelphia . . . . . P'a.

\* Pursuing a partial course.



NAMES.	RESIDENCE.
Stokes, J. Spencer . . . .	Moorestown . . . . N. J.
Thurston, William R. . . .	New York City . . . . N. Y.
*Willets, William H. . . .	New York City . . . . N. Y.
Williams, Horace . . . .	Newport . . . . R. I.

## ACADEMICAL STUDENTS.

Dawson, Charles P. . . . .	Philadelphia . . . . P'a.
Levick, Robert . . . . .	Philadelphia . . . . P'a.
Merritt, Walter . . . . .	Poughkeepsie . . . . N. Y.
Scott, Thomas . . . . .	Pittsburg . . . . P'a.
Pancoast, Albert . . . . .	Philadelphia . . . . P'a.
Thorne, Jonathan . . . . .	New York City . . . . N. Y.
Toms, Richard H. R. . . . .	Holly Grove . . . . Va.
Vaux, Roberts . . . . .	Philadelphia . . . . P'a.
Wood, Randolph . . . . .	Philadelphia . . . . P'a.

## SUMMARY.

Seniors . . . . .	8
Juniors . . . . .	15
Sophomores . . . . .	18
Freshmen . . . . .	18
Academical Students . . . . .	9
	—
Total . . . . .	68

\* Pursuing a partial course.

# COURSE OF STUDY.

## THIRD JUNIOR (OR FRESHMAN) CLASS.

### MATHEMATICS.

Algebra, . . . . .	<i>Alsop.</i>
Geometry, . . . . .	<i>Euclid.</i>

### GREEK AND LATIN LANGUAGES.

The Anabasis of Xenophon . . . . .	<i>Owen.</i>
Greek Syntax, . . . . .	<i>Crosby.</i>
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Virgil, . . . . .	<i>Schmitz or Gould.</i>
Latin Prosody.	
Latin Prose Composition, . . . . .	<i>Arnold.</i>

### ENGLISH LITERATURE, ETC.

English Compositions.	
Universal History, . . . . .	<i>Weber.</i>
Guizot's History of Civilization, . . . . .	<i>By Lectures.</i>
Geology, . . . . .	<i>Hitchcock.</i>
Physical Geography, . . . . .	<i>Guyot.</i>
Agassiz's Principles of Zoology, . . . . .	<i>By Lectures.</i>
Drawing.	

## SECOND JUNIOR (OR SOPHOMORE) CLASS.

### MATHEMATICS.

Plane Trigonometry and Surveying, . . . . .	<i>Alsop.</i>
Spherical Trigonometry, Conic Sections, and Spherical Projections, . . . . .	<i>Lewis.</i>
Astronomy, . . . . .	<i>Robinson.</i>

## GREEK AND LATIN LANGUAGES.

The Anabasis of Xenophon, . . . . .	<i>Owen.</i>
The Iliad of Homer.	
Greek Prose Composition, continued, . . . . .	<i>Arnold.</i>
Cicero's Orations, . . . . .	<i>Folsom or Johnson.</i>
Livy, . . . . .	<i>Lincoln.</i>
Latin Prose Composition, continued, . . . . .	<i>Arnold.</i>

## ENGLISH LITERATURE, ETC.

Inorganic Chemistry, . . . . .	<i>Stöckhardt.</i>
Organic Chemistry, . . . . .	<i>Johnston.</i>
Physics of Chemistry, . . . . .	<i>Johnston, Part I.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>
Drawing.	

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 JUNIOR CLASS.

## MATHEMATICS.

Astronomy, continued, . . . . .	<i>Robinson.</i>
Analytical Geometry, . . . . .	<i>Robinson.</i>
Calculus, . . . . .	<i>Robinson.</i>

## GREEK AND LATIN LANGUAGES.

The Alcestis of Euripides, . . . . .	<i>Woolsey.</i>
Demosthenes on the Crown, . . . . .	<i>Champlin.</i>
Greek Composition, continued, . . . . .	<i>Arnold.</i>
Horace, . . . . .	<i>Macleane.</i>
Tacitus's Germania and Agricola, . . . . .	<i>Tyler.</i>
Latin Composition, continued, . . . . .	<i>Arnold.</i>

## ENGLISH LITERATURE, ETC.

Rhetoric, . . . . .	<i>Whately.</i>
Gurney's Observations.	
Biblical Antiquities, . . . . .	<i>Nevin.</i>
Commentaries on the Law of Nations and American Law, . . . . .	<i>Kent.</i>
Moral Philosophy, . . . . .	<i>Dymond.</i>
Themes.	
Drawing.	

## SENIOR CLASS.

## MATHEMATICS.

Mechanical Philosophy, . . . . .	<i>Olmsted.</i>
Optics, . . . . .	<i>Olmsted.</i>
Physical and Practical Astronomy, . . . . .	<i>Robinson.</i>

## GREEK AND LATIN LANGUAGES.

Demosthenes on the Crown, . . . . .	<i>Champlin.</i>
Thucydides, . . . . .	<i>Owen.</i>
Greek Compositions.	
Cicero's Tusculan Disputations, I., . . . . .	<i>Chase.</i>
The Captivi of Plautus.	
Latin Compositions and Extemporalia.	
Modern Greek, . . . . .	<i>By Lectures.</i>

## ENGLISH LITERATURE, ETC.

Political Economy, . . . . .	<i>Wayland.</i>
Analogy of Natural and Revealed Religion, . . . . .	<i>Butler.</i>
Logic, . . . . .	<i>Whately.</i>
Intellectual Philosophy, . . . . .	<i>Wayland.</i>
English Literature . . . . .	<i>By Lectures.</i>
Themes.	

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 ACADEMICAL DEPARTMENT.

Arithmetic.	
Algebra, . . . . .	<i>Alsop's First Lessons.</i>
Latin Grammar, . . . . .	<i>Andrews &amp; Stoddard.</i>
Latin Reader, . . . . .	<i>Andrews.</i>
Cæsar, . . . . .	"
Greek Grammar, . . . . .	<i>Sophocles.</i>
Greek Reader, . . . . .	<i>Jacob or Felton.</i>
Greek Syntax, . . . . .	<i>Crosby's Grammar, pages 80 &amp; 81.</i>
Geography, . . . . .	<i>Pelton's, with Outline Maps.</i>
English Grammar . . . . .	<i>Brown.</i>
Elements of History.	
English Composition.	
Elocution, . . . . .	<i>Town's Fourth Reader.</i>



## ADMISSIONS.

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THE list of studies in the Academical Department, will indicate the REQUISITIONS FOR ADMISSION into the Freshman Class. The best interests of the student demand thorough and uniform preparation *in all the studies*; and it is very desirable that those intending to apply for admission should study with special reference to the course at Haverford, that they may enter equally well prepared in the different departments, and not be retarded by the necessity of making up deficiencies. Information in regard to the exact amount gone over in the different text-books, can be procured by addressing the Superintendent, at West Haverford, Delaware County, Penn.

Students can be admitted to ADVANCED STANDING, when they can pass a satisfactory Examination in all the previous studies of the Course.

APPLICATIONS for admission must be made to the Secretary of the Board of Managers, CHARLES YARNALL, No. 123 Market Street, Philadelphia. Candidates will present themselves at the College, for Examination by the Faculty, the morning preceding the opening of the Term.

## LECTURES.

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DURING the Winter, Lectures are delivered by the Professors, to the whole College, in addition to the special courses before single classes. The subjects vary from year to year, in order to give the members of each Class, in the four years of their College life, as full a view of the different fields illustrated as practicable. The Course for the winter of 1858-9 is as follows:—

<i>Elocution,</i> . . . . .	TUTOR STUART.
<i>The Antiquities and First Peopling of America,</i> . . . . .	PROFESSOR SWIFT.
<i>European Scenes and Institutions,</i> . . . . .	PROFESSOR CHASE.
<i>Natural Philosophy,</i> . . . . .	TIMOTHY NICHOLSON.
<i>On Zero and Infinity,</i> . . . . .	PROFESSOR STEVENS.

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## EXAMINATIONS.

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NEAR the close of each Summer Term, there is a private Examination 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, and each student is furnished with a set of

questions (the same to each), 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 subject.

To each question a certain numerical value is assigned, according to its importance and difficulty. The answers in each Department are examined by the Professor in that Department, who places against each answer that is substantially correct, the number affixed to the corresponding question; except when the answer is either imperfect, or distinguished for merit; in which case, instead of this number, he places a lower or higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one-half of all the numbers in each book studied in the Course, and also for two-thirds of all the numbers in each Department, before he can be advanced to the Junior Class, or be graduated and receive the Diploma of a Bachelor of Arts.

At the end of each Term there is a Public Examination of all the Classes.

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## DEGREE OF MASTER OF ARTS.

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GRADUATES of three years' standing can take the Degree of Master of Arts, on submitting to the Committee on Instruction satisfactory evidence of continued good moral character, and presenting a Thesis on some literary or scientific subject, which shall receive the approbation of the Faculty.

## ASTRONOMICAL OBSERVATORY.

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THE HAVERFORD OBSERVATORY is designed to furnish to 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. The building is of stone, and consists of a central part 20 feet square, and of nearly the same height, with wings 15 feet square to the east and west, and surmounted by a revolving dome, 19 feet in diameter.

The instruments with which it is furnished, are an Equatorial Telescope; a Meridian Transit Circle; a Prime-Vertical Transit; a Sidereal Clock, and Bond's Magnetic Register for recording time.

The Equatorial, by Henry Fitz, of New York, has an aperture of  $8\frac{1}{4}$  inches, and a focal length of 11 feet. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which rests upon a stone pier 6 feet in diameter, passing through, but not in contact with, the floors of the building, and solidly imbedded several feet below the surface of the ground. The Telescope has a spider-line, and also an annular-micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times. It is likewise provided with a clock movement, by which the object is kept steadily in the field of view, and whose attachment is such as allows the tube to be turned while the Clock is in operation.

In the west wing is mounted the Meridian Circle, of the German form, made by William J. Young, of Philadelphia. It has 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. The Instrument is supported by marble piers, 5 feet high, firmly based on masonry.

In the eastern wing is a Sidereal Clock, with the mercurial compensation, made by Harpur of Philadelphia. In the same room with the Clock, and connected with it by copper wires—which wires also lead to a Grove's Battery in a small adjoining apartment, and thence to all the other instruments in the Observatory—is the Magnetic Chronograph, or "Spring Governor." This is an instrument devised by its inventor, William C. Bond, of Cambridge, Massachusetts, to carry a cylinder, with an equable rotary motion, so that it may make one entire revolution in one minute of Sidereal time. A sheet of paper is wrapped around the cylinder, and on this paper the commencement of each second is recorded by a fountain pen, whose movements are produced by a soft iron magnet, coiled with the copper wire which leads to the Battery, and are in exact coincidence with the beats of the Clock. The Observer at each Telescope is furnished with a "break-circuit key," by which means he is enabled to make a record of his observations on the paper covering the cylinder, among the second marks of the Clock, in such a manner, and with such accuracy, that the tenths of a second may be read off without difficulty or possibility of error. The Observatory is lighted, and the instruments illuminated with gas.

The whole cost of the Observatory was about \$7000. Of this, \$2500 was expended upon the building alone; the remainder in furnishing the instruments it contains. The cost of the Telescope was \$2100; of the Transit Instrument, \$1000; the Sidereal Clock, \$300; the Magnetic Chronograph, \$300; the Sextant, \$150; the Dolland Transit, \$200; and the Solar Clock, \$150.



## LIBRARY AND APPARATUS.

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THE LIBRARY of the College contains about 2600 volumes, selected with great care; that of the Loganian Society, about 1000 volumes; making the whole number of books in the two Libraries, 3600.

A large and valuable APPARATUS has been provided for the illustration of Natural Philosophy and Chemistry; and additions are from time to time made to it, as the progress of the Sciences requires.

The extensive MINERALOGICAL COLLECTION of the late Dr. Troost occupies the cases in the Collection Room. A GEOLOGICAL CABINET has also been formed, comprising complete suites of specimens illustrating the Geology of New York and South Carolina, prepared for the College by the late Lardner Vanuxem. Continual additions are making to this department.

For the illustration of Ancient Geography, the College is furnished with Kiepert's series of WALL MAPS.

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. These operations are conducted under the supervision of the Professor of Chemistry, and afford ample means for a practical acquaintance with this branch of study.





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## THE LOGANIAN SOCIETY.

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THIS Society, established by the Officers and Students of Haverford School in 1834, continues in successful operation. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, monthly. It has in its possession a carefully selected Library of 1000 volumes, and a museum of curiosities. A large and well-furnished Gymnasium, also, is under its direction, and is much used by its members.

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## ALUMNI PRIZE ESSAYS.



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Two prizes are biennially offered by the Alumni Association, for English Essays, as follows:—

A prize of *thirty dollars*, called the Alumni Prize, for the best Essay by any student of the College or member of the Association;

And a prize of *fifteen dollars*, called the Under-Graduates' Prize, for the best Essay by any member of the Senior or Junior Class.

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.

Essays designed for the next competition must be sent to one of the Awarding Committee prior to 4th month 12th, 1859. The members of this Committee are William S. Hilles, of Wilmington, Del., John R. Winslow, M. D., of Baltimore, Md., and Francis C. Yarnall, of Philadelphia.

The subjects from which competitors for the prizes of 1859 must choose their theme, are as follows:—

FOR THE ALUMNI PRIZE.

1. *On the importance to the American People of maintaining in their Schools and Colleges an accurate and liberal course of study in the history and literature of Greece and Rome.*
2. *On the effect of religious superstition upon the condition and progress of a people.*
3. *On the best methods of maintaining literary exertion in connection with an active business or professional career.*

FOR THE UNDER-GRADUATES' PRIZE.

1. *On the trial and condemnation of Socrates.*
2. *On the spread of Christianity into heathen lands.*
3. *On the poetry of Alfred Tennyson.*



## OBJECT AND SITUATION OF THE COLLEGE.

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ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed, in the most thorough manner, in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature of Pennsylvania. The buildings were erected and the School was opened in the year 1833. In 1856 an additional act of the Legislature was procured, giving the Institution the rights and title—as it had always had the character—of a College.

The College has a remarkably pleasant and healthy location, on the Pennsylvania Rail Road, nine miles west of Philadelphia. The buildings are situated on a lawn of forty acres, which is finely laid out with walks and terraces, and which, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the State. All the Students board at the Institution, each one being furnished with a separate room. The number that can be accommodated is 70.

## COMMENCEMENT, TERMS, TUITION, ETC.

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COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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-one weeks, beginning two 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 two 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 Association directs, that "The College shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society."

The price of Board and Tuition is \$250 per annum, payable as follows, viz: \$75 at the opening of each Term, and \$50 at the middle of it.







A  
CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE,

FOR THE

ACADEMICAL YEAR

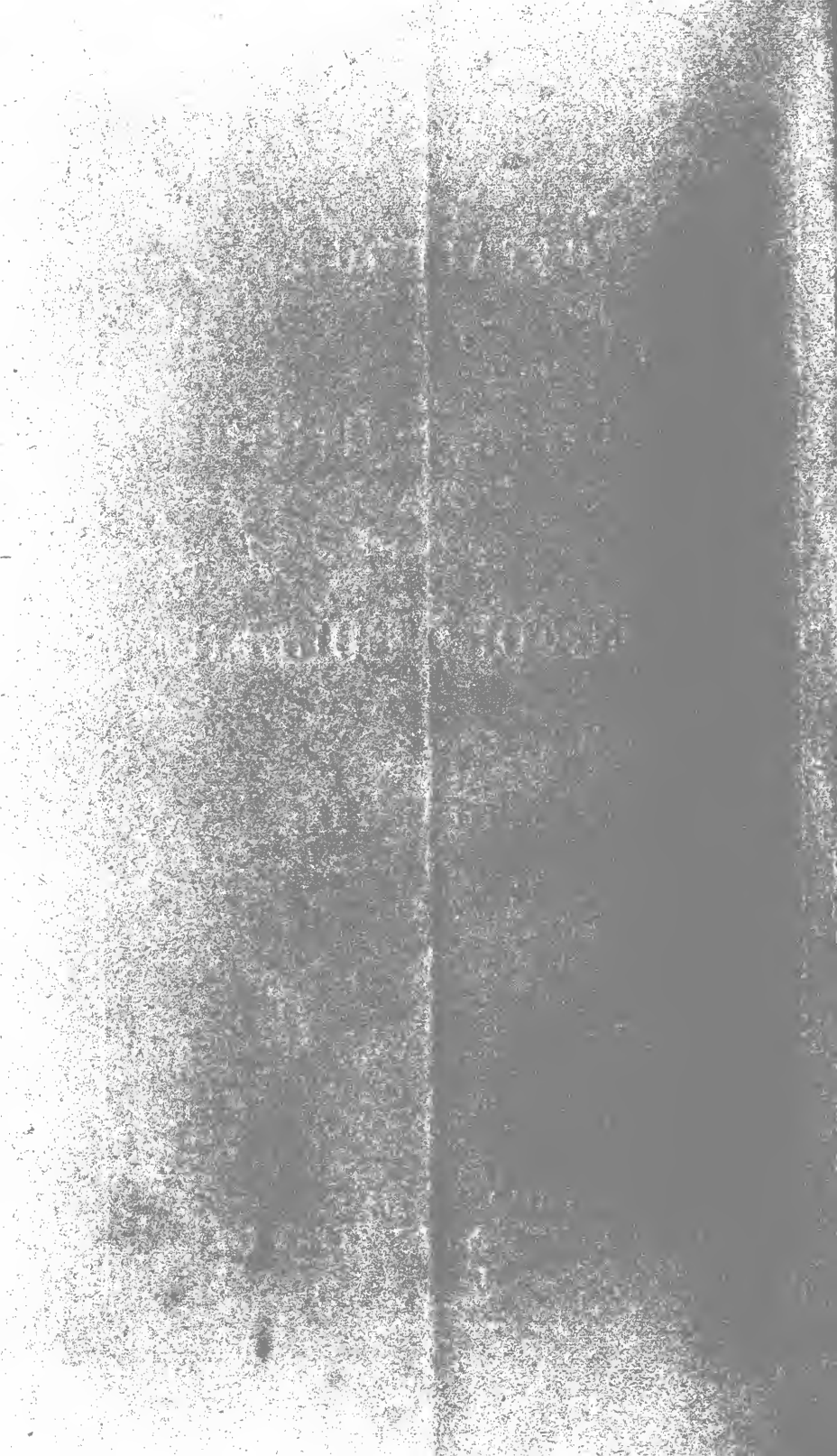
1859-60.

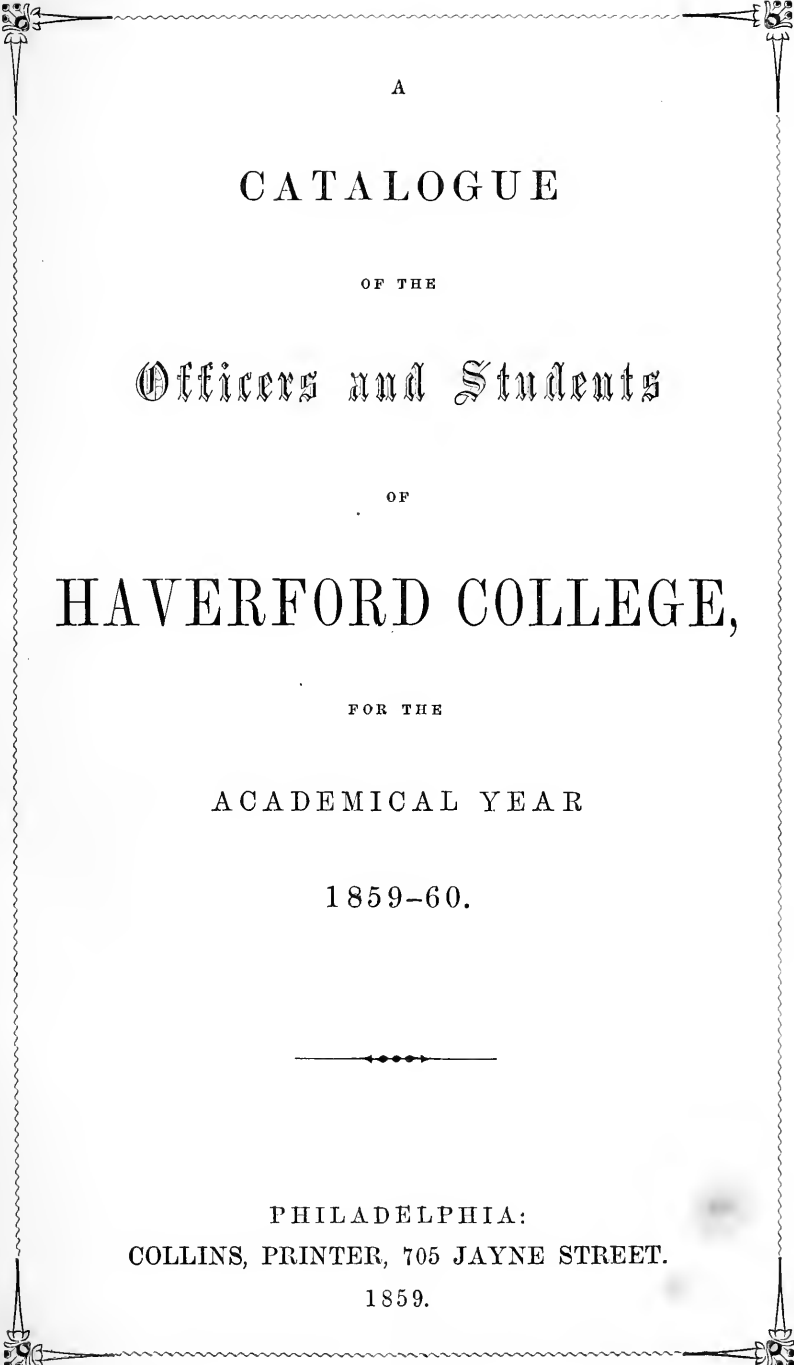
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PHILADELPHIA:

COLLINS, PRINTER, 705 JAYNE STREET.

1859.





A  
CATALOGUE  
OF THE  
*Officers and Students*  
OF  
HAVERFORD COLLEGE,  
FOR THE  
ACADEMICAL YEAR  
1859-60.

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PHILADELPHIA:  
COLLINS, PRINTER, 705 JAYNE STREET.

1859.



CORPORATION.

---

SECRETARY.

CHARLES ELLIS.

TREASURER.

ISAIAH HACKER.

---



SECRETARY OF THE BOARD.

CHARLES YARNALL.

MANAGERS.

THOMAS KIMBER,  
EDWARD YARNALL,  
CHARLES YARNALL,  
TOWNSEND SHARPLESS,  
CHARLES ELLIS,  
SAMUEL HILLES,  
ISAIAH HACKER,  
SAMUEL RHOADS,  
GEORGE HOWLAND, JR.,  
JEREMIAH HACKER,  
MARMADUKE C. COPE,  
JOHN M. WHITALL,  
ANTHONY M. KIMBER,

THEOPHILUS E. BEESLEY, M. D.,  
RICHARD H. THOMAS, M. D.,  
WISTAR MORRIS,  
T. WISTAR BROWN,  
JOSEPH W. TAYLOR, M. D.,  
HARRISON ALDERSON,  
DAVID SCULL,  
HENRY HARTSHORNE, M. D.,  
WILLIAM S. HILLES,  
JAMES WHITALL,  
WILLIAM BETTLE,  
HUGH D. VAIL, A. M.,  
HAYDOCK GARRIGUES.



*Committee on Instruction.*

THOMAS KIMBER,	SAMUEL RHOADS,
CHARLES YARNALL,	HARRISON ALDERSON,
EDWARD YARNALL,	DR. HENRY HARTSHORNE,
MARMADUKE C. COPE,	WILLIAM S. HILLES,
JEREMIAH HACKER,	WILLIAM BETTLE,
JOHN M. WHITALL,	JAMES WHITALL,
HUGH D. VAIL, A. M.	

*Committee on Finance and Economy.*

EDWARD YARNALL,	MARMADUKE C. COPE,
WISTAR MORRIS,	JAMES WHITALL.

*Committee on Property.*

EDWARD YARNALL,	JOHN M. WHITALL,
WISTAR MORRIS,	DR. J. W. TAYLOR,
HAYDOCK GARRIGUES.	

*Committee on Library and Apparatus.*

CHARLES YARNALL,	ANTHONY M. KIMBER,
T. WISTAR BROWN,	HUGH D. VAIL, A. M.

*Committee on Admissions.*

THOMAS KIMBER,	CHARLES YARNALL,
JOHN M. WHITALL,	MARMADUKE C. COPE,
JAMES WHITALL,	GEORGE HOWLAND, JR.

## FACULTY.



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PRINCIPAL.

PAUL SWIFT, M. D.,

PROFESSOR OF ENGLISH LITERATURE AND NATURAL SCIENCE.

THOMAS CHASE, A. M.,

PROFESSOR OF THE GREEK AND LATIN LANGUAGES AND ANCIENT  
LITERATURE.

MOSES C. STEVENS,

PROFESSOR OF MATHEMATICS, NATURAL PHILOSOPHY, AND ASTRONOMY.

TIMOTHY NICHOLSON,

TUTOR IN ENGLISH AND MATHEMATICS.

THOMAS WISTAR, A. B.,

TUTOR IN CLASSICS AND HISTORY.



TIMOTHY NICHOLSON,

SUPERINTENDENT.

JESSE H. HAINES,

STEWARD.

THOMAS WISTAR, A. B.,

LIBRARIAN.

\* \* \* \* \*

INSTRUCTOR IN DRAWING.

## GRADUATES.

1836.

NAMES.	RESIDENCE.
THOMAS F. COCK, M. D., . . .	New York . . . . N. Y.
JOSEPH WALTON, . . . .	Philadelphia . . . . Pa.

1837.

WILLIAM C. LONGSTRETH, . . . .	Philadelphia . . . . Pa.
DAVID C. MURRAY, . . . .	New York . . . . N. Y.
LINDLEY MURRAY, . . . .	New York . . . . N. Y.
BENJAMIN V. MARSH, . . . .	Rahway . . . . N. J.
JOSEPH L. PENNOCK, . . . .	Philadelphia . . . . Pa.
ROBERT B. PARSONS, . . . .	Flushing . . . . N. Y.
CHARLES L. SHARPLESS, . . . .	Philadelphia . . . . Pa.
LLOYD P. SMITH, . . . .	Philadelphia . . . . Pa.
B. WYATT WISTAR, . . . .	Philadelphia . . . . Pa.

1838.

JAMES V. EMLER, M. D., . . . .	Philadelphia . . . . Pa.
JOHN ELLIOTT, . . . .	Philadelphia . . . . Pa.

1839.

FREDERICK COLLINS, . . . .	Philadelphia . . . . Pa.
THOMAS P. COPE, . . . .	Philadelphia . . . . Pa.
HENRY HARTSHORNE, M. D., . . . .	Philadelphia . . . . Pa.
NEREUS MENDENHALL, M. D., . . . .	Guilford Co. . . . N. C.
RICHARD RANDOLPH, JR., M. D., . . . .	Philadelphia . . . . Pa.
CHARLES TABER, . . . .	New Bedford . . . . Mass.

1840.

JOSEPH HOWELL, . . . .	Philadelphia . . . . Pa.
ANTHONY M. KIMBER, . . . .	Philadelphia . . . . Pa.
HENRY H. G. SHARPLESS, . . . .	Philadelphia . . . . Pa.
JOHN R. WINSLOW, M. D., . . . .	Hertford . . . . N. C.

## 1841.

NAMES.	RESIDENCE.
RICHARD H. LAWRENCE, . . .	New York . . . . N. Y.
JAMES P. PEROT, . . . .	Philadelphia . . . . Pa.
ELIAS A. WHITE, . . . .	North Carolina . . . . N. C.

## 1842.

ROBERT BOWNE, , . . .	New York . . . . N. Y.
RICHARD CADBURY, . . . .	Philadelphia . . . . Pa.
WILLIAM S. HILLES, . . . .	Wilmington . . . . Del.
THOMAS KIMBER, JR., . . . .	Philadelphia . . . . Pa.
JAMES J. LEVICK, M. D., . . . .	Philadelphia . . . . Pa.
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.

ROBERT B. HOWLAND, . . . .	New Bedford . . . . Mass.
FRANCIS WHITE, . . . .	North Carolina . . . . N. C.
WILLIAM D. STROUD, M. D., . . . .	Philadelphia . . . . Pa.

## 1844.

EVAN T. ELLIS, . . . .	Philadelphia . . . . Pa.
ISAAC HARTSHORNE, . . . .	Philadelphia . . . . Pa.
ROBERT B. HAINES, . . . .	Germantown . . . . Pa.

## 1845.

EDMUND CRENSHAW, . . . .	Richmond . . . . Va.
ROBERT PEARSALL, . . . .	Philadelphia . . . . Pa.

## 1849.

ALBERT K. SMILEY, A. M., . . . .	Vassalborough . . . . Me.
ALFRED H. SMILEY, . . . .	Vassalborough . . . . Me.



## 1851.

NAMES.	RESIDENCE.
JOSEPH L. BAILEY, . . .	Berks Co . . . . Pa.
PHILIP C. GARRETT, . . .	Philadelphia . . . . Pa.
THOMAS J. LEVICK, . . .	Philadelphia . . . . Pa.
FRANKLIN E. PAIGE, A. M., . . .	Ware . . . . N. H.
ZACCHEUS TEST, M. D., . . .	Richmond . . . . Ind.
JAMES C. THOMAS, M. D., . . .	Baltimore . . . . Md.
RICHARD WOOD, . . . .	Philadelphia . . . . Pa.

## 1852.

DUGAN CLARK, M. D., . . .	New Garden . . . . N. C.
LEWIS N. HOPKINS, . . .	Baltimore . . . . Md.
WILLIAM L. KINSMAN, . . .	Salem . . . . Mass.
WILLIAM E. NEWHALL, . . .	Philadelphia . . . . Pa.
JAMES WHITALL, . . . .	Philadelphia . . . . Pa.

## 1853.

WILLIAM B. MORGAN, A. M., . . .	Raysville . . . . Ind.
WILLIAM H. PANCOAST, . . .	Philadelphia . . . . Pa.

## 1854.

FREDERICK ARTHUR, JR., . . .	Nantucket . . . . Mass.
JOHN W. CADBURY, . . .	Philadelphia . . . . Pa.
JOHN B. GARRETT, . . .	Philadelphia . . . . Pa.
DAVID SCULL, JR., . . .	Philadelphia . . . . Pa.

## 1855.

*SAMUEL BETTLE, . . .	Philadelphia . . . . Pa.
JOHN R. HUBBARD, . . .	New Garden . . . . N. C.

## 1856.

BARTHOLOMEW W. BEESLEY, . . .	Philadelphia . . . . Pa.
JOEL CADBURY, JR., . . .	Philadelphia . . . . Pa.
JONATHAN J. COMFORT, M. D., . . .	Tecumseh . . . . Mich.
JAMES M. WALTON, . . .	Philadelphia . . . . Pa.
EDWARD R. WOOD, A. M., . . .	Philadelphia . . . . Pa.

\* Obiit 1859.

## 1857.

NAMES.	RESIDENCE.
JESSE S. CHENEY, . . .	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.
THOMAS WISTAR, . . .	Philadelphia . . . . Pa.
ELLIS H. YARNALL, . . .	Philadelphia . . . . Pa.

## 1859.

RICHARD W. CHASE, . . .	Burlington . . . . N. J.
RICHARD C. PAXSON, . . .	Philadelphia . . . . Pa.
EDWARD RHOADS, . . .	Philadelphia . . . . Pa.
EDWARD C. SAMPSON, . . .	Manchester . . . . Me.
GEORGE SAMPSON, . . .	Manchester . . . . Me.
ABRAM SHARPLES, . . .	Ivy Mills, . . . . Pa.
BENJAMIN H. SMITH, . . .	Upper Darby . . . . Pa.

## HONORARY DEGREES.

## 1858.

HUGH D. VAIL, A. M., . . .	Plainfield . . . . N. J.
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## 1859.

JOSEPH W. ALDRICH, A. M., . . .	Philadelphia . . . . Pa.
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Alumnorum numerus integer . . . . . 88

E vivis cesserunt stelligeri . . . . . 2

\* Obiit 1858.

## UNDER-GRADUATES.

### SENIORS.

NAMES.	RESIDENCE.
Clark, Lindley M. . . . .	Carthage . . . . . Ind.
Corbit, William B. . . . .	Odessa . . . . . Del.
Corlies, William M. . . . .	Strickersville . . . . . Pa.
Lindley, Cyrus . . . . .	Monrovia . . . . . Ind.
Morris, Frederick W. . . . .	Philadelphia . . . . . Pa.
Morris, Theodore H. . . . .	Philadelphia . . . . . Pa.
Pancoast, Richard . . . . .	Philadelphia . . . . . Pa.
Pinkham, John W. . . . .	North Vassalboro . . . . . Me.
Richardson, Francis . . . . .	Philadelphia . . . . . Pa.
Smith, Clement L. . . . .	Upper Darby . . . . . Pa.
Tyson, James . . . . .	Reading . . . . . Pa.
Underhill, Silas A. . . . .	Brooklyn . . . . . N. Y.

### JUNIORS.

Bettle, Charles . . . . .	Philadelphia . . . . . Pa.
Bettle, Edward . . . . .	Philadelphia . . . . . Pa.
Bettle, Henry . . . . .	Philadelphia . . . . . Pa.
Broomall, William B. . . . .	Chester . . . . . Pa.
Jones, C. Henry . . . . .	Tamaqua . . . . . Pa.
Lamb, Thomas W. . . . .	Newby's Bridge . . . . . N. C.
Mellor, Alfred . . . . .	Philadelphia . . . . . Pa.
Murray, Joseph K. . . . .	Flushing . . . . . N. Y.
Potts, William N. . . . .	Philadelphia . . . . . Pa.
Stuart, J. Harlan . . . . .	Westminster . . . . . N. C.
Thomas, John C. . . . .	Baltimore . . . . . Md.
Wood, Francis A. . . . .	New York . . . . . N. Y.

## SECOND JUNIORS.

NAMES..	RESIDENCE.
Coates, Henry T. . . . .	Philadelphia . . . . Pa.
Cox, Robert B. . . . .	Hertford . . . . N. C.
Farnum, Samuel . . . . .	Milville . . . . Mass.
Hadley, Samuel A. . . . .	Osceola . . . . Ia.
Lippincott, Hewlings . . . . .	Cinnaminson . . . . N. J.
Lippincott, Horace G. . . . .	Philadelphia . . . . Pa.
Mellor, George B. . . . .	Philadelphia . . . . Pa.
Morris, Anthony J. . . . .	Pemberton . . . . N. J.
Morris, James T. . . . .	Philadelphia . . . . Pa.
Mott, John B. . . . .	New York . . . . N. Y.
Parsons, Samuel . . . . .	Flushing . . . . N. Y.
Starr, Edward . . . . .	Philadelphia . . . . Pa.
Starr, Theodore . . . . .	Philadelphia . . . . Pa.
Thurston, William R. . . . .	New York . . . . N. Y.
Williams, Horace . . . . .	Newport . . . . R. I.
Wood, George . . . . .	Philadelphia . . . . Pa.

## THIRD JUNIORS.

Batthey, Thomas J. . . . .	Burrillville . . . . R. I.
Coates, George M. . . . .	Philadelphia . . . . Pa.
Coates, William M. . . . .	Philadelphia . . . . Pa.
Davis, Henry W. . . . .	Philadelphia . . . . Pa.
Handy, Thomas P. . . . .	Baltimore . . . . Md.
Holme, John G. . . . .	Salem . . . . N. J.
Jessup, George W. . . . .	Cinnaminson . . . . N. J.
Jones, Richard T. . . . .	Philadelphia . . . . Pa.
Knight, Thomas W. . . . .	Philadelphia . . . . Pa.
Levick, Robert . . . . .	Philadelphia . . . . Pa.
Matthews, William W. . . . .	Cockeysville . . . . Md.
Merritt, J. Walter . . . . .	Poughkeepsie . . . . N. Y.
Morris, William H. . . . .	Philadelphia . . . . Pa.
Parrish, Joseph . . . . .	Philadelphia . . . . Pa.
Parrish, William W. . . . .	Philadelphia . . . . Pa.
Pancoast, Albert . . . . .	Philadelphia . . . . Pa.
Pancoast, Henry B. . . . .	Philadelphia . . . . Pa.

NAMES.	RESIDENCE.
Scott, Thomas . . . . .	Pittsburg . . . . . Pa.
Smyth, Horace . . . . .	Philadelphia . . . . . Pa.
Thorne, Jonathan . . . . .	New York . . . . . N. Y.
Tyler, J. Edgar . . . . .	Media . . . . . Pa.
Vaux, Roberts . . . . .	Philadelphia . . . . . Pa.

## ACADEMICAL STUDENTS.

Barney, William H. . . . .	Mobile . . . . . Ala.
Bacon, George W. . . . .	Philadelphia . . . . . Pa.
Dawson, Charles P. . . . .	Philadelphia . . . . . Pa.
Morris, Isaac W. . . . .	Philadelphia . . . . . Pa.
Wood, Randolph . . . . .	Philadelphia . . . . . Pa.

## SUMMARY.

Seniors . . . . .	12
Juniors . . . . .	12
Second Juniors . . . . .	16
Third Juniors . . . . .	22
Academical Students . . . . .	5
Total . . . . .	<u>67</u>

## Calendar.

Winter Term, 1859-60, begins . . . . .	9 Mo. 14th.
Winter Term, 1859-60, ends . . . . .	2 Mo. 1st.
Summer Term, 1860, begins . . . . .	2 Mo. 22d.
Summer Term, 1860, ends . . . . .	7 Mo. 11th.
Public Examinations, 1860, 1 Mo. 30th, 31st, and 7 Mo. 9th, 10th.	
Biennial Examinations, 1860, begin . . . . .	6 Mo. 2d.
Biennial Examinations, 1860, end . . . . .	7 Mo. 7th.
Oration before Loganian Society, 1860 . . . . .	1 Mo. 31st.
Junior Exhibition, 1860 . . . . .	2 Mo. 1st.
Public Meeting of Loganian Society, 1860 . . . . .	7 Mo. 9th.
Address before Alumni, 1860 . . . . .	7 Mo. 10th.
Commencement, 1860 . . . . .	7 Mo. 11th.
Winter Term, 1860-61, begins . . . . .	9 Mo. 12th.

# COURSE OF STUDY.

## THIRD JUNIOR CLASS.

### MATHEMATICS.

Geometry . . . . .	<i>Euclid.</i>
Algebra . . . . .	<i>Alsop.</i>

### GREEK AND LATIN.

The Anabasis of Xenophon . . . . .	<i>Owen.</i>
Greek Syntax . . . . .	<i>Crosby.</i>
Greek Prose Composition . . . . .	<i>Arnold.</i>
Virgil . . . . .	<i>Schmitz or Gould.</i>
Latin Prosody.	
Latin Prose Composition . . . . .	<i>Arnold.</i>

### ENGLISH.

Compositions.	
Universal History . . . . .	<i>Weber.</i>
Geology . . . . .	<i>Hitchcock.</i>
Physical Geography . . . . .	<i>Guyot.</i>
Agassiz's Principles of Zoology . . . . .	<i>By Lectures.</i>
Drawing.	

## SECOND JUNIOR CLASS.

### MATHEMATICS.

Plane Trigonometry and Surveying . . . . .	<i>Alsop.</i>
Spherical Trigonometry, Conic Sections, and Spherical Projections . . . . .	<i>Lewis.</i>
Astronomy . . . . .	<i>Robinson.</i>

## GREEK AND LATIN.

The Iliad of Homer.

Greek Prose Composition, continued . . . . . *Arnold.*Cicero's Orations . . . . . *Folsom or Johnson.*Livy . . . . . *Lincoln.*Latin Prose Composition, continued . . . . . *Arnold.*

## ENGLISH.

Inorganic Chemistry . . . . . *Stöckhardt.*Organic Chemistry . . . . . *Johnston.*Physics of Chemistry . . . . . *Johnston, Part I.*Evidences of Christianity . . . . . *Paley.*Botany . . . . . *Gray.*

Drawing.

## JUNIOR CLASS.

## MATHEMATICS.

Astronomy, continued . . . . . *Robinson.*Analytical Geometry . . . . . *Robinson.*Calculus . . . . . *Robinson.*

## GREEK AND LATIN.

The Antigone of Sophocles . . . . . *Woolsey.*Demosthenes on the Crown . . . . . *Champlin.*

Greek Compositions.

Horace . . . . . *Maclean.*The Histories of Tacitus . . . . . *Tyler.*

Latin Compositions.

Greek Testament . . . . . *Tischendorf.*

## ENGLISH.

Rhetoric . . . . . *Whately.*Biblical Antiquities . . . . . *Nevin.*Commentaries on the Law of Nations and American Law *Kent.*Moral Philosophy . . . . . *Dymond.*

Themes.

Drawing.



## SENIOR CLASS.

## MATHEMATICS.

Mechanical Philosophy . . . . .	<i>Olmsted.</i>
Optics . . . . .	<i>Olmsted.</i>
Physical and Practical Astronomy . . . . .	<i>Robinson.</i>

## GREEK AND LATIN.

Thucydides . . . . .	<i>Owen.</i>
The <i>Œdipus Tyrannus</i> of Sophocles . . . . .	<i>Schneidewin.</i>
Greek Compositions.	
Cicero's <i>Tusculan Disputations</i> . . . . .	<i>Chase.</i>
Horace's <i>Epistle to the Pisos</i> . . . . .	<i>Maclean.</i>
The <i>Captivi</i> of Plautus.	
Latin Compositions and Extemporalia.	
Greek Testament . . . . .	<i>Tischendorf.</i>
Modern Greek . . . . .	<i>By Lectures.</i>

## ENGLISH.

Political Economy . . . . .	<i>Wayland.</i>
Analogy of Natural and Revealed Religion . . . . .	<i>Butler.</i>
Gurney's <i>Observations</i> .	
Lectures on Modern History . . . . .	<i>Arnold.</i>
Logic . . . . .	<i>Whately.</i>
Mental Philosophy . . . . .	<i>Haven.</i>
Themes.	

## ACADEMICAL DEPARTMENT.

Arithmetic.

Algebra . . . . . *Alsop's First Lessons.*

Latin Grammar . . . . . *Andrews & Stoddard (Revised edition).*

Latin Reader . . . . . *Andrews.*

Cæsar . . . . . “

Greek Grammar . . . . . *Sophocles.*

Greek Reader . . . . . *Jacob or Felton.*

Greek Testament.

Greek Syntax . . . . . *Crosby's Grammar, pages 80 & 81.*

Geography . . . . . *Pelton's, with Outline Maps.*

English Grammar . . . . . *Brown.*

Physiology.

Elements of History.

English Composition.

Elocution . . . . . *Town's Fourth Reader, and Declamations.*

## ADMISSIONS.

THE list of studies in the Academical Department, will indicate the REQUISITIONS FOR ADMISSION into the Third Junior Class. It is very desirable that students should enter equally prepared in the different departments, and not be retarded by the necessity of making up deficiencies. Information in regard to the exact amount gone over in the different text-books, can be procured by addressing the Superintendent, at West Haverford, Delaware County, Penn.

Students can be admitted to ADVANCED STANDING, when they can pass a satisfactory Examination in all the previous studies of the Course.

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.

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## LECTURES.

DURING the Winter, Lectures are delivered by the Professors, to the whole College, in addition to the special courses before single classes. The Course for the winter of 1859-60 is as follows :—

*The History of Modern European Civilization*, PROF. SWIFT.  
*The English Language and Literature*, . . . . PROF. CHASE.

## EXAMINATIONS.

NEAR the close of each Summer Term, there is a private Examination of the Second Junior 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, and each student is furnished with a set of questions (the same to each), 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 subject.

To each question a certain numerical value is assigned, according to its importance and difficulty. The answers in each Department are examined by the Professor in that Department, who places against each answer that is substantially correct, the number affixed to the corresponding question; except when the answer is either imperfect, or distinguished for merit; in which case, instead of this number, he places a lower or higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one-half of all the numbers in each book studied in the Course, and also for two-thirds of all the numbers in each Department, before he can be advanced to

the Junior Class, or be graduated and receive the Diploma of a Bachelor of Arts.

At the end of each Term there is a public Examination of all the Classes.

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## DEGREE OF MASTER OF ARTS.

GRADUATES of three years' standing can take the Degree of Master of Arts, on submitting to the Committee on Instruction satisfactory evidence of continued good moral character, and presenting a Thesis on some literary or scientific subject, which shall receive the approbation of the Faculty. The fee for the Diploma is Five Dollars.

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## ASTRONOMICAL OBSERVATORY.

THE HAVERFORD OBSERVATORY is designed to furnish to 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. The instruments with which it is furnished, are an Equatorial Telescope; a Meridian Transit Circle; a Prime-Vertical Transit; a Sidereal Clock, and Bond's Magnetic Register for recording time.

The Telescope, made by Henry Fitz, of New York, has an aperture of  $8\frac{1}{4}$  inches, and a focal length of 11 feet. It is mounted

in the Fraunhofer style, on a marble pedestal 8 feet high, which rests upon a stone pier 6 feet in diameter, passing through, but not in contact with, the floors of the building, and solidly imbedded several feet below the surface of the ground. It has an annular-micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times. It is likewise provided with a clock movement, by which the object is kept steadily in the field of view, so attached as allows the tube to be turned while the Clock is in operation.

In the west wing is mounted the Meridian Circle, of the German form, made by William J. Young, of Philadelphia. It has 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. The Instrument is supported by marble piers, 5 feet high, firmly based on masonry.

In the eastern wing is a Sidereal Clock, with the mercurial compensation, made by Harpur, of Philadelphia. In the same room with the Clock, and connected with it by copper wires—which wires also lead to a Grove's Battery in a small adjoining apartment, and thence to all the other instruments in the Observatory—is the Magnetic Chronograph, or "Spring Governor." This is an instrument devised by its inventor, William C. Bond, of Cambridge, Massachusetts, to carry a cylinder, with an equable rotary motion, so that it may make one entire revolution in one minute of Sidereal time. A sheet of paper is wrapped around the cylinder, and on this paper the commencement of each second is recorded by a fountain pen, whose movements are caused by a soft iron magnet, coiled with the copper wire which leads to the Battery, and are in exact coincidence with the beats of the Clock. The Observer at each Telescope is furnished with a "break circuit key," by which means he is enabled to make a record of his observations on the paper covering the cylinder, among the second

marks of the Clock, in such a manner, and with such accuracy, that the tenths of a second may be read off without difficulty, or possibility of error. The Observatory is lighted, and the instruments illuminated, with gas.

The whole cost of the Observatory was about \$7000. Of this, \$2500 was expended upon the building alone; the remainder in furnishing the instruments it contains. The cost of the Telescope was \$2100; of the Transit Instrument, \$1000; the Sidereal Clock, \$300; the Magnetic Chronograph, \$300; the Sextant, \$150; the Dolland Transit, \$200; and the Solar Clock, \$150.

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## LIBRARY AND APPARATUS.

THE LIBRARY of the College contains about 3000 volumes; that of the Loganian Society, about 1250, making the whole number of books in the two Libraries, 4250.

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 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. These operations are conducted under the supervision of the Professor of Chemistry.

## SOCIETIES.

The LOGANIAN SOCIETY, established by the Officers and Students in 1834, continues in successful operation. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, monthly. It has in its possession a carefully selected Library of 1250 volumes, and cabinets of conchology, geology, natural history, medals, and coins. A large and well-furnished Gymnasium, also, is under its direction.

The ATHENÆUM and EVERETT are private literary societies.

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## ALUMNI PRIZE ESSAYS.

Two prizes are biennially offered by the Alumni Association, for English Essays, as follows :—

A prize of *thirty dollars*, called the Alumni Prize, for the best Essay by any student of the College or member of the Association ;

And a prize of *fifteen dollars*, called the Under-Graduates' Prize, for the best Essay by any member of the Senior or Junior Class.

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.



Essays designed for the next competition must be sent to one of the Awarding Committee prior to 6th month 1st, 1861. The subjects from which competitors must choose their theme, are as follows :—

FOR THE ALUMNI PRIZE.

1. On the benefits of Classical Education, especially in reference to the Condition and Prospects of the American People.
2. The History and Development of the English Common Law, and its transference to the nations and colonies of English descent.
3. Common Schools, and how far the education given in them should be extended.

FOR THE UNDER-GRADUATES' PRIZE.

1. The Causes which chiefly promote or retard the spread of Christianity.
2. The History and Structure of the English Language.
3. The Utility of Manual Labor Schools.

The Under-Graduates' Prize for the year 1859 was awarded to EDWARD RHOADS, of the Graduating Class.

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## OBJECT AND SITUATION OF THE COLLEGE.

ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed, in the most thorough manner, in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legisla-

ture of Pennsylvania. The buildings were erected and the School was opened in the year 1833. In 1856 an additional act of the Legislature was procured, giving the Institution the powers and title—as it had always had the character—of a College.

The College has a remarkably pleasant and healthy location, on the Pennsylvania Railroad, nine miles west of Philadelphia. The buildings are situated on a lawn of fifty acres, which is tastefully laid out, and, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the State. All the students board at the Institution.

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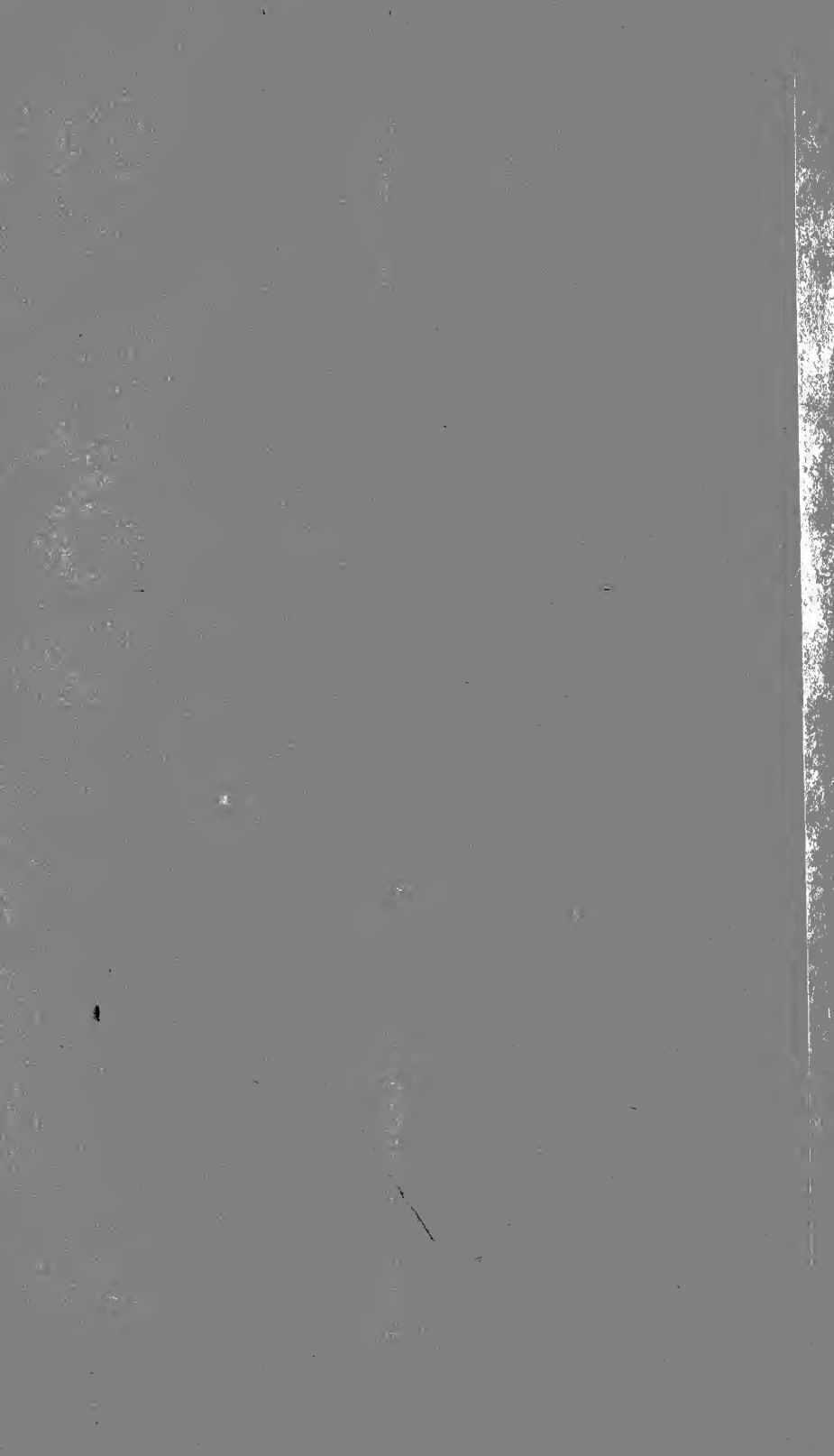
## COMMENCEMENT, TERMS, TUITION, ETC.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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 Association directs, that “The College shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society.”

The price of Board and Tuition is, for members, \$250 per annum; for non-members, \$300 per annum.





Haverford College,

1860-61.



CATALOGUE

OF THE

Officers and Students

OF

HVERFORD COLLEGE,

FOR THE

ACADEMICAL YEAR,

1860-61.

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PHILADELPHIA:

E. KETTERLINUS, PRINTER, N. W. COR. ARCH AND FOURTH STS.

1860.

# Corporation.

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*Secretary,*

CHARLES ELLIS.

*Treasurer,*

JOHN M. WHITALL.

---

*Secretary of the Board,*

CHARLES YARNALL.

## MANAGERS:

THOMAS KIMBER,	WISTAR MORRIS,
CHARLES YARNALL,	T. WISTAR BROWN,
TOWNSEND SHARPLESS,	JOSEPH W. TAYLOR, M. D.
CHARLES ELLIS,	HARRISON ALDERSON,
SAMUEL HILLES,	DAVID SCULL,
ISAIAH HACKER,	WILLIAM S. HILLES,
SAMUEL RHODES,	JAMES WHITALL,
GEORGE HOWLAND, A. M.	WILLIAM BETTLE,
JEREMIAH HACKER,	HUGH D. VAIL, A. M.,
MARMADUKE C. COPE,	HAYDOCK GARRIGUES,
JOHN M. WHITALL,	EDWARD GARRETT,
ANTHONY M. KIMBER,	BENJAMIN V. MARSH,
THEOPHILUS E BEESLEY, M.D.	JAMES CAREY THOMAS, M. D.



## Committee on Instruction.

THOMAS KIMBER,	SAMUEL RHOADS,
CHARLES YARNALL,	HARRISON ALDERSON,
MARMADUKE C. COPE,	WILLIAM S. HILLES,
JEREMIAH HACKER,	WILLIAM BETTLE,
JOHN M. WHITALL,	JAMES WHITALL,
HUGH D. VAIL, A. M.	

## Committee on Finance and Economy.

WISTAR MORRIS,	JAMES WHITALL.
MARMADUKE C. COPE,	T. WISTAR BROWN.

## Committee on Property.

JOHN M. WHITALL,	JOSEPH W. TAYLOR, M. D.
WISTAR MORRIS,	HAYDOCK GARRIGUES,
EDWARD GARRETT.	

## Committee on Library and Apparatus.

CHARLES YARNALL,	T. WISTAR BROWN,
ANTHONY M. KIMBER,	HUGH D. VAIL, A. M.

## Committee on Admissions.

CHARLES YARNALL,	MARMADUKE C. COPE,
JOHN M. WHITALL,	JAMES WHITALL,
THOMAS KIMBER,	GEORGE HOWLAND, A. M.,
JAMES CAREY THOMAS, M. D.	



SUPERINTENDENT,

TIMOTHY NICHOLSON.

GOVERNOR & BOOKKEEPER,

CHARLES ATHERTON.

MATRON,

*Miss, Mrs. H. H. H.* ELIZABETH B. HOPKINS. *Esq.*



Faculty.

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PRINCIPAL.

PAUL SWIFT, M. D.

PROFESSOR OF ENGLISH LITERATURE AND NATURAL SCIENCE.

THOMAS CHASE, A. M.

PROFESSOR OF THE GREEK AND LATIN LANGUAGES AND LITERATURE.

MOSES C. STEVENS,

PROFESSOR OF MATHEMATICS, NATURAL PHILOSOPHY, AND ASTRONOMY.

TIMOTHY NICHOLSON.

TUTOR IN ENGLISH AND MATHEMATICS.

THOMAS WISTAR, A. B.

TUTOR IN CLASSICS AND HISTORY.

CHARLES ATHERTON,

TEACHER OF ELOCUTION.

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THOMAS WISTAR, A. B.

LIBRARIAN.

LUCIEN CREPON, 1860.

JOHN WILSON, 1860-61.

INSTRUCTORS IN DRAWING.

## Under-Graduates.

### SENIORS.

NAMES.	RESIDENCE.
Bettle, Charles . . . .	Philadelphia, . . . . Pa.
Bettle, Edward . . . .	Philadelphia, . . . . Pa.
Bettle, Henry . . . .	Philadelphia, . . . . Pa.
Broomall, William Booth . . . .	Media, . . . . Pa.
Jones, Charles Henry . . . .	Tamaqua, . . . . Pa.
Lamb, Thomas White . . . .	Newby's Bridge, . . . . N. C.
Murray, Joseph K. . . .	Flushing, . . . . N. Y.
Potts, William Newlin . . . .	Philadelphia, . . . . Pa.
Stuart, Jehu Harlan . . . .	Westminster, . . . . N. C.
Thomas, John Clapp . . . .	Baltimore, . . . . Md.
Wood, Francis Augustus . . . .	New York, . . . . N. Y.

### JUNIORS.

Coates, Henry Troth . . . .	Philadelphia, . . . . Pa.
Farnum, Samuel . . . .	Milville, . . . . Mass.
Hadley, Samuel Allen . . . .	Osceola, . . . . Ia.
Lippincott, Horace Greenough . . . .	Philadelphia, . . . . Pa.
Mellor, George Brown . . . .	Philadelphia, . . . . Pa.
Starr, Edward . . . .	Philadelphia, . . . . Pa.
Williams, Horace . . . .	Newport, . . . . R. I.

### SECOND JUNIORS.

Battey, Thomas Jesse . . . .	Burrillville, . . . . R. I.
Coates, George Morrison . . . .	Philadelphia, . . . . Pa.
Coates, William Morrison . . . .	Philadelphia, . . . . Pa.
Corbit, Daniel W. . . .	Odessa, . . . . Del.

NAMES.	RESIDENCE.
-Handy, Thomas Poultney . . .	Baltimore, . . . Md.
-Jessup, George White . . .	Cinnaminson, . . . N. J.
Jones, Richard Thomas . . .	Philadelphia, . . . Pa.
Knight, Thomas Walter . . .	Philadelphia, . . . Pa.
-Leeds, Albert Ripley A.B. High School	Philadelphia, . . . Pa.
-Levick, Robert . . .	Philadelphia, . . . Pa.
-Morris, James Thompson . . .	Philadelphia, . . . Pa.
Morris, William Henry . . .	Philadelphia, . . . Pa.
Pancoast, Henry Boller . . .	Philadelphia, . . . Pa.
Pinkham, Joseph Gurney . . .	North Vassalboro', . . . Me.
Scott, Thomas . . .	Pittsburg, . . . Pa.
-Smyth, Horace . . .	Philadelphia, . . . Pa.
-Thorne, Jonathan . . .	New York, . . . N. Y.
Thurston, William Richardson	Flushing, . . . N. Y.
Tyler, John Edgar . . .	Media, . . . Pa.
-Vaux, Roberts . . .	Philadelphia, . . . Pa.

### THIRD JUNIORS.

Angell, Franklin . . .	South Corinth, . . . N. Y.
Ashbridge, William . . .	West Whiteland, . . . Pa.
Bacon, George Warder . . .	Philadelphia, . . . Pa.
Barney, William Henry . . .	Mobile, . . . Ala.
Coates, Edward H. . . .	Philadelphia, . . . Pa.
Dawson, Charles Poultney . . .	Philadelphia, . . . Pa.
Dennis, Jr., James . . .	Pawtucket, . . . R. I.
Garrett, Albin . . .	West Chester, . . . Pa.
Grier, George . . .	Altoona, . . . Pa.
Haines, Howard Lippincott . . .	Philadelphia, . . . Pa.
Hiatt, Oliver Smith . . .	Westfield, . . . Ind.
Longstreth, Morris . . .	Germantown, . . . Pa.
Merritt, Charles Frost . . .	Hart's Village, . . . N. Y.
Pancoast, Albert . . .	Philadelphia, . . . Pa.
Parrish, William Wright . . .	Philadelphia, . . . Pa.
Phillips, Albert Shreve . . .	Trenton, . . . N. J.

NAMES.	RESIDENCE.
Roberts, Charles . . .	Philadelphia, . . . Pa.
Scull, Edward L. . . .	Philadelphia, . . . Pa.
Thomas, Jonas Preston . .	West Whiteland, . . Pa.
Wood, Randolph . . . .	Philadelphia, . . . Pa.
Zook, John Miller . . . .	West Whiteland, . . Pa.

### ACADEMICAL.

Haines, Frederic . . . .	Marietta, . . . Pa.
Haviland, Arthur . . . .	Brooklyn, . . . N. Y.
Jones, William Brinton . .	Birmingham, . . Pa.
Miller, Charles Martin . .	Nashville, . . . Tenn.
Morris, Isaac Wistar . . .	Philadelphia, . . . Pa.
Roberts, Edward Churchman	Brooklyn, . . . N. Y.

### SUMMARY.

Seniors, . . . . .	11
Juniors, . . . . .	7
Second Juniors, . . . . .	20
Third Juniors, . . . . .	21
Academical Students, . . . . .	6
Total, . . . . .	<u>65</u>

## Calendar.

Winter Term, 1860-61, began . . . . .	9 Mo. 12th.
Winter Term, 1860-61, ends . . . . .	1 Mo. 30th.
Summer Term, 1861, begins . . . . .	2 Mo. 20th.
Summer Term, 1861, ends . . . . .	7 Mo. 10th.
Public Examinations, 1861, 1 Mo. 28th, 29th, and 7 Mo. 8th, 9th.	
Biennial Examinations, 1861, begin . . . . .	6 Mo. 1st.
Biennial Examinations, 1861, end . . . . .	7 Mo. 6th.
Oration before Loganian Society, 1861, . . . . .	1 Mo. 29th.
Junior Exhibition, 1861, . . . . .	1 Mo. 30th.
Public Meeting of Loganian Society, 1861, . . . . .	7 Mo. 8th.
Address before Alumni, 1861, . . . . .	7 Mo. 9th.
Commencement, 1861, . . . . .	7 Mo. 10th.
Winter Term, 1861-2, begins . . . . .	9 Mo. 11th.

# Course of Study.

## THIRD JUNIOR CLASS.

### MATHEMATICS.

Geometry, . . . . .	<i>Euclid.</i>
Algebra, . . . . .	<i>Alsop.</i>
Plane Trigonometry, . . . . .	<i>Gummere.</i>

### GREEK AND LATIN.

Greek Testament.	
The Anabasis of Xenophon, . . . . .	<i>Crosby.</i>
Greek Syntax, . . . . .	<i>Crosby.</i>
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Virgil, . . . . .	<i>Schmitz or Gould.</i>
Latin Prosody.	
Latin Prose Composition, . . . . .	<i>Arnold.</i>

### ENGLISH.

Compositions.	
Universal History, . . . . .	<i>Weber.</i>
Chemistry, . . . . .	<i>Stoeckhardt.</i>
Geology, Commenced, . . . . .	<i>Hitchcock.</i>
Drawing.	

## SECOND JUNIOR CLASS.

### MATHEMATICS.

Surveying, . . . . .	<i>Gummere.</i>
Spherical Trigonometry, Conic Sections and Spherical Projections, . . . . .	<i>Lewis.</i>
Astronomy, . . . . .	<i>Robinson.</i>



## GREEK AND LATIN.

The Iliad of Homer.

Greek Prose Composition, continued, . . .	<i>Arnold.</i>
Cicero's Orations, . . . . .	<i>Folsom or Johnson</i>
Livy, . . . . .	<i>Lincoln.</i>
Latin Prose Composition, continued, . . .	<i>Arnold.</i>

## ENGLISH.

Geology, continued, . . . . .	<i>Hitchcock.</i>
Physical Geography, . . . . .	<i>Guyot.</i>
Organic Chemistry, . . . . .	<i>Johnston.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>
Zoology, . . . . .	<i>By Lectures.</i>
Drawing.	

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 JUNIOR CLASS.

## MATHEMATICS.

Astronomy, continued, . . . . .	<i>Robinson.</i>
Analytical Geometry, . . . . .	<i>Robinson.</i>
Calculus, . . . . .	<i>Robinson.</i>

## GREEK AND LATIN.

The Philoctetes of Sophocles, . . . . .	<i>Schneidewin.</i>
Demosthenes on the Crown, . . . . .	<i>Champlin.</i>
Greek Compositions.	
Horace, . . . . .	<i>Maclean.</i>
The Germania and Agricola of Tacitus, . . .	<i>Tyler.</i>
Latin Compositions.	
Greek Testament, . . . . .	<i>Tischendorf.</i>

## ENGLISH.

Rhetoric, . . . . .	<i>Whately.</i>
Logic, . . . . .	<i>Whately.</i>
Biblical Antiquities.	
Political Economy, . . . . .	<i>Wayland.</i>
The Law of Nations and American Law, . . . . .	<i>Kent.</i>
Themes.	
Drawing.	

## SENIOR CLASS.

## MATHEMATICS.

Mechanical Philosophy, . . . . .	<i>Snell's Olmsted.</i>
Optics, . . . . .	<i>Snell's Olmsted.</i>
Physical and Practical Astronomy, . . . . .	<i>Robinson.</i>

## GREEK AND LATIN.

Thucydides, . . . . .	<i>Owen.</i>
The Prometheus of Æschylus, . . . . .	<i>Woolsey.</i>
Greek Compositions.	
Tacitus, . . . . .	<i>Tyler.</i>
Cicero's Tusculan Disputations, . . . . .	<i>Chase.</i>
The Captivi of Plautus.	
Latin Compositions and Extemporalia.	
Greek Testament, . . . . .	<i>Tischendorf.</i>
Modern Greek, . . . . .	<i>By Lectures.</i>

## ENGLISH.

Moral Philosophy, . . . . .	<i>Dymond.</i>
Analogy of Natural and Revealed Religion, . . . . .	<i>Butler.</i>
Gurney's Observations.	
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Mental Philosophy, . . . . .	<i>Haven.</i>
Themes.	

## Academical Department.

Arithmetic.

Algebra . . . . *Alsop's First Lessons.*

Latin Grammar . . . . *Andrews & Stoddard (Revised Edition)*

Latin Reader . . . . *Andrews.*

Cæsar . . . . . "

Greek Grammar . . . . *Sophocles or Hadley.*

Greek Reader . . . . *Jacob or Felton.*

Greek Testament.

Greek Syntax . . . . *Crosby's Grammar, pages 80 & 81.*

Geography . . . . *Pelton's, with Outline Maps.*

English Grammar . . . . *Brown.*

Physiology . . . . *Cutter.*

Elements of History.

English Composition.

Elocution . . . . *Reading and Declamations.*

## Admissions.

THE list of studies in the Academical Department will indicate the REQUISITIONS FOR ADMISSION into the College. It is very desirable that students should enter equally prepared in the different departments, and not be retarded by the necessity of making up deficiencies. Information in regard to the exact amount studied in the different text-books, can be procured by addressing the Superintendent, at West Haverford, Delaware County, Penn.

Students can be admitted to ADVANCED STANDING, when they can pass a satisfactory Examination in all the previous studies of the Course.

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.

## Lectures.

DURING the Winter, Lectures are delivered by the Professors, to the whole College, in addition to the special courses before single classes. The course for the winter of 1860-61 is as follows:—

<i>Geology,</i>	. . . . .	PROF. SWIFT.
<i>Greek and Roman Antiquities,</i>	. . . . .	PROF. CHASE.
<i>Astronomy,</i>	. . . . .	PROF. STEVENS.
<i>Natural Theology.</i>	. . . . .	TUTOR WISTAR.

## Examinations.

NEAR the close of each Summer Term, there is a private Examination of the Second Junior 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 under the following plan:

The members of the Class under Examination are seated in a room by themselves, and each student is furnished with a set of questions (the same to each), 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 subject.

To each question a certain numerical value is assigned, according to its importance and difficulty. The answers in each Department are examined by the Professor or Tutor in that Department, who places against each answer that is substantially correct, the number affixed to the corresponding question; except when the answer is either imperfect, or distinguished for merit; in which case, instead of this number, he places a lower or higher one, as the case may be, to express his estimate of the value of the answer. A student must gain credit for at least one-half of all the numbers in each book studied in the Course, and also for two-thirds of all the numbers in each Department, before he can be advanced to the Junior Class, or be graduated and receive the Diploma of Bachelor of Arts.

The Examination of each Class occupies about two weeks.

At the end of each Term there is a public Examination of all the Classes.

## Degree of Master of Arts.

GRADUATES of three years' standing can take the Degree of Master of Arts, on submitting to the Committee on Instruction satisfactory evidence of continued good moral character, and presenting a Thesis on some literary or scientific subject, which shall receive the approbation of the Faculty. 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.

The Equatorial Telescope, made by Henry Fitz, of New York, has an aperture of  $8\frac{1}{4}$  inches, and a focal length of 11 feet. It is mounted in the Fraunhofer style, on a marble pedestal 8 feet high, which rests upon a stone pier 6 feet in diameter, passing through, but not in contact with, the floors of the building, and solidly imbedded several feet below the surface of the ground. It has an annular-micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times. It is likewise provided with a clock movement, by which the object is kept steadily in the field of view, so attached as allows the tube to be turned while the Clock is in operation.

In the west wing is mounted the Meridian Transit Circle, of the German form, made by William J. Young, of Philadelphia. It has 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. The Instrument is supported by marble piers, 5 feet high, firmly based on masonry. The Solar Clock stands in the same apartment.

In the eastern wing is the Sidereal Clock, with the mercurial compensation, made by Harpur, of Philadelphia. In the same room with the Clock, and connected with it by copper wires—which wires also lead to a Grove's Battery in a small adjoining apartment, and thence to all the other Instruments in the Observatory—is the Magnetic Chronograph, or "Spring Governor." This is an instrument devised by the late William C. Bond, of Cambridge, Massachusetts, to carry a cylinder, with an equable rotary motion, so that it shall make one entire revolution in one minute of Sidereal time. A sheet of paper is wrapped around the cylinder, and on this paper the commencement of each second is recorded by a fountain pen, whose movements are caused by a soft iron magnet, coiled with the copper wire which leads to the Battery, and are in exact coincidence with the beats of the Clock. The Observer at each Telescope is furnished with a "break circuit key," by which means he is enabled to make a record of his observations on the paper covering the cylinder, among the second marks of the Clock, in such a manner, and with such accuracy, that the tenths of a second may be read off without difficulty, or possibility of error. The Observatory is lighted, and the instruments illuminated, with gas.

The whole cost of the Observatory was about \$7000. Of this, \$2500 was expended upon the building alone; the remainder in furnishing the instruments it contains. The cost of the Telescope was \$2100; of the Transit Instrument, \$1000; the Sidereal Clock, \$300; the Magnetic Chronograph, \$300; the Sextant, \$150; the Dolland Prime-Vertical Transit, \$200; and the Solar Clock, \$150.

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## Library and Apparatus.

THE LIBRARY of the College contains about 3000 volumes; that of the Loganian Society, about 1300, making the whole number of books in the two Libraries, 4300.

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 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. These operations are conducted under the supervision of the Professor of Chemistry.

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## Societies.

The LOGANIAN SOCIETY, established by the Officers and Students in 1834, continues in successful operation. 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 1300 volumes, and cabinets of conchology, geology, natural history, medals and coins. A large and well-furnished Gymnasium, also, is under its direction.

The ATHENÆUM and EVERETT are literary societies.

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## Alumni Prize Essays.

Two prizes are biennially offered by the Alumni Association, for English Essays, as follows:—

A prize of *thirty dollars*, called the Alumni Prize, for the best Essay by any student of the College or member of the Association;

And a prize of *fifteen dollars*, called the Under-Graduates' Prize, for the best Essay by any member of the Senior or Junior Class.



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.

Essays designed for the next competition must be sent to one of the Awarding Committee prior to 6th month 1st, 1861. The Committee is composed of the following gentlemen: HUGH D. VAIL, ISAAC S. SERRILL and CHARLES HARTSHORNE. The subjects from which competitors must choose their theme, are as follows:

1. On the benefits of Classical Education, especially in reference to the Condition and Prospects of the American People.

2. The History and Development of the English Common Law, and its transference to the nations and colonies of English descent.

3. Common Schools, and how far the education given in them should be extended.

1. The Causes which chiefly promote or retard the spread of Christianity.

2. The History and Structure of the English Language.

3. The Utility of Manual Labor Schools.

The Under-Graduates' Prize for the year 1859 was awarded to EDWARD RHOADS, of the Graduating Class.

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## Object & Situation of the College.

ABOUT the year 1830, a strong interest was manifested by Friends in New York, Philadelphia, and other places, for the establishment of a Collegiate Institution, where members of their own Society might be instructed, in the most thorough manner, in the higher branches of learning. Measures were accordingly taken for this object; subscriptions were opened, the site was selected, and an act of incorporation obtained from the Legislature

of Pennsylvania. The buildings were erected and the Institution was opened in the year 1833. In 1856 an additional act of the Legislature was procured, giving it the powers and title—as it had always had the character—of a College.

The College has a remarkably pleasant and healthy location, on the Pennsylvania Railroad, nine miles west of Philadelphia. The buildings are situated on a lawn of fifty acres, which are tastefully laid out, and, in the number and variety of its trees and shrubbery, is perhaps unsurpassed by any lawn in the State. All the students board at the Institution.

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## Commencement, Terms, Tuition, &c.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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 Association directs, that “The College shall be open for the admission of Friends, the children of Friends, and of professors with Friends, who may desire their children to be educated in conformity with the principles and testimonies of our religious Society.”

The price of Board and Tuition is \$300 per annum, payable as follows:—\$100 at the beginning of each Term, and \$50 at the middle of it.

## Graduates.

1836.

NAMES.	RESIDENCE.
THOMAS F. COCK, M. D., . . .	New York, . . . N. Y.
JOSEPH WALTON, . . .	Philadelphia, . . . Pa.

1837.

WILLIAM C. LONGSTRETH, . . .	Philadelphia, . . . Pa.
DAVID C. MURRAY, . . .	New York, . . . N. Y.
LINDLEY MURRAY, . . .	New York, . . . N. Y.
BENJAMIN V. MARSH, . . .	Rahway, . . . N. J.
JOSEPH L. PENNOCK, . . .	Philadelphia, . . . Pa.
ROBERT B. PARSONS, . . .	Flushing, . . . N. Y.
CHARLES L. SHARPLESS, . . .	Philadelphia, . . . Pa.
LLOYD P. SMITH, . . .	Philadelphia, . . . Pa.
B. WYATT WISTAR, . . .	Philadelphia, . . . Pa.

1838.

JAMES V. EMLLEN, M. D., . . .	Philadelphia, . . . Pa.
JOHN ELLIOTT, . . .	Philadelphia, . . . Pa.

1839.

FREDERICK COLLINS, . . .	Philadelphia, . . . Pa.
THOMAS P. COPE, . . .	Philadelphia, . . . Pa.
HENRY HARTSHORNE, A. M., M. D.	Philadelphia, . . . Pa.
NEREUS MENDENHALL, M. D., .	Guilford Co., . . . N. C.
RICHARD RANDOLPH, JR., M. D.,	Philadelphia, . . . Pa.
CHARLES TABER, . . .	New Bedford, . . . Mass.

1840.

JOSEPH HOWELL, . . .	Philadelphia, . . . Pa.
ANTHONY M. KIMBER, . . .	Philadelphia, . . . Pa.
HENRY H. G. SHARPLESS, . . .	Philadelphia, . . . Pa.
JOHN R. WINSLOW, M. D. . . .	Hertford, . . . N. C.

## 1841.

NAMES.	RESIDENCE.
RICHARD H. LAWRENCE, . . .	New York, . . . N. Y.
JAMES P. PEROT, . . . .	Philadelphia, . . . Pa.
ELIAS A. WHITE, . . . .	North Carolina, . . . N. C.

## 1842.

ROBERT BOWNE, . . . .	New York, . . . N. Y.
RICHARD CADBURY, . . . .	Philadelphia, . . . Pa.
WILLIAM S. HILLES, . . . .	Wilmington, . . . Del.
THOMAS KIMBER, JR., . . . .	Philadelphia, . . . Pa.
JAMES J. LEVICK, M. D. . . . .	Philadelphia, . . . Pa.
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.

ROBERT B. HOWLAND, . . . .	New Bedford, . . . Mass.
FRANCIS WHITE, . . . .	North Carolina, . . . N. C.
WILLIAM D. STROUD, M. D., . . . .	Philadelphia, . . . Pa.

## 1844.

EVAN T. ELLIS, . . . .	Philadelphia, . . . Pa.
ISAAC HARTSHORNE, . . . .	Philadelphia, . . . Pa.
ROBERT B. HAINES, . . . .	Germantown, . . . Pa.

## 1845.

EDMUND CRENSHAW, . . . .	Richmond, . . . Va.
ROBERT PEARSALL, . . . .	Philadelphia, . . . Pa.

## 1849.

ALBERT K. SMILEY, A. M., . . . .	Vassalborough, . . . Me.
ALFRED H. SMILEY, . . . .	Vassalborough, . . . Me.

## 1851.

NAMES.	RESIDENCE.
JOSEPH L. BAILEY, . . .	Berks Co. . . . Pa.
PHILIP C. GARRETT, . . .	Philadelphia, . . . Pa.
THOMAS J. LEVICK, . . .	Philadelphia, . . . Pa.
FRANKLIN E. PAIGE, A. M.,	Ware, . . . . N. H.
ZACCHEUS TEST, M. D., . . .	Richmond, . . . Ind.
JAMES C. THOMAS, M. D, . . .	Baltimore, . . . Md.
RICHARD WOOD, . . . .	Philadelphia, . . . Pa.

## 1852.

DOUGAN CLARK, M. D., . . .	New Garden, . . . N. C.
LEWIS N. HOPKINS, . . .	Baltimore, . . . Md.
WILLIAM L. KINSMAN, . . .	Salem, . . . . Mass.
WILLIAM E. NEWHALL, . . .	Philadelphia, . . . Pa.
JAMES WHITALL, . . . .	Philadelphia, . . . Pa.

## 1853.

WILLIAM B. MORGAN, A. M., .	Raysville, . . . . Ind.
WILLIAM H. PANCOAST, M. D.,	Philadelphia, . . . Pa.

## 1854.

FREDERICK ARTHUR, JR., . . .	Nantucket, . . . Mass.
JOHN W. CADBURY, . . . .	Philadelphia, . . . Pa.
JOHN B. GARRETT, . . . .	Philadelphia, . . . Pa.
DAVID SCULL, JR., . . . .	Philadelphia, . . . Pa.

## 1855.

*SAMUEL BETTLE, . . . .	Philadelphia, . . . Pa.
JOHN R. HUBBARD, A. M., . . .	New Garden, . . . N. C.

## 1856.

BARTHOLOMEW W. BEESLEY, .	Philadelphia, . . . Pa.
JOEL CADBURY, JR., . . . .	Philadelphia, . . . Pa.
JONATHAN J. COMFORT, M. D.,	Tecumseh, . . . . Mich.
JAMES M. WALTON, . . . .	Philadelphia, . . . Pa.
EDWARD R. WOOD, A. M., . . .	Philadelphia, . . . Pa.

## 1857.

NAMES.	RESIDENCE.
JESSE S. CHENEY, A. M., . . .	Thornbury, . . . Pa.
*CYRUS MENDENHALL, . . .	Plainfield, . . . Ind.
STEPHEN WOOD, . . .	Bedford, . . . N. Y.

## 1858.

THOMAS H. BURGESS, . . .	Harveysburg, . . . Ohio.
THOMAS CLARK, . . .	Carthage, . . . Ind.
DAINEL W. HUNT, . . .	Annapolis, . . . Ind.
SAMUEL T. SATTERTHWAITE, . . .	Chesterfield, . . . N. J.
WILLIAM G. TYLER, . . .	Salem, . . . N. J.
THOMAS WISTAR, . . .	Philadelphia, . . . Pa.
ELLIS H. YARNALL, . . .	Philadelphia, . . . Pa.

## 1859.

RICHARD W. CHASE, . . .	Burlington, . . . N. J.
JAMES R. MAGEE, . . .	Philadelphia, . . . Pa.
RICHARD C. PAXSON, . . .	San Francisco, . . . Cal.
EDWARD RHOADS, . . .	Philadelphia, . . . Pa.
EDWARD C. SAMPSON, . . .	Manchester, . . . Me.
GEORGE SAMPSON, . . .	Manchester, . . . Me.
ABRAM SHARPLES, . . .	Ivy Mills, . . . Pa.
BENJAMIN H. SMITH, . . .	Upper Darby, . . . Pa.

## 1860.

LINDLEY M. CLARK, . . .	Carthage, . . . Ind.
WILLIAM B. CORBIT, . . .	Odessa, . . . Del.
WILLIAM M. CORLIES, . . .	Philadelphia, . . . Pa.
CYRUS LINDLEY, . . .	Monrovia, . . . Ind.
FREDERICK W. MORRIS, . . .	Philadelphia, . . . Pa.
THEODORE H. MORRIS, . . .	Philadelphia, . . . Pa.
RICHARD PANCOAST, . . .	Philadelphia, . . . Pa.
JOHN W. PINKHAM, . . .	North Vassalborough, Me.
FRANCIS RICHARDSON, . . .	Philadelphia, . . . Pa.
CLEMENT L. SMITH, . . .	Upper Darby, . . . Pa.
JAMES TYSON, . . .	Reading, . . . Pa.
SILAS A. UNDERHILL, . . .	Brooklyn, . . . N. Y.

## Honorary Degrees.

1858.

HUGH D. VAIL, A. M., . . . Plainfield, . . . N. J.

1859.

JOSEPH W. ALDRICH, A. M., . . Philadelphia, . . Pa.

1860.

JOHN G. WHITTIER, A. M., (Also of Harvard, 1860.) Amesbury, . . Mass.

Whole number of Graduates, . . . . . 101

## GENERAL PLAN

OF THE

**Course of Study and of the Discipline**

It is believed that few places of instruction offer greater facilities than Haverford for young men who desire to obtain a sound and systematic education, such as shall develop all their intellectual powers harmoniously, and prepare them for usefulness in life.

Some exposition of the course of study may be interesting, both as unfolding the general theory on which it is based, and as showing the extent of the educational facilities presented.

## MORAL, POLITICAL, AND NATURAL SCIENCE.

In these Departments the method of instruction aims at making the lessons, whatever the subject, as nearly as may be, practical. In Moral or Political Science, for example, the principle is illustrated and enforced by applying it to the practices and the wants of every day life. If the subject be Natural Science, the student is brought 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 2400; together, over



5000. In Zoology, less has been done; yet a beginning has been made, and many valuable specimens are already in possession of the Institution. These collections, together with illustrations by diagrams, models, and maps, enable the teacher 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 the important study of 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 familiarizing them, by actual practice, with the principles and laws of the science, as well as securing dexterity in chemical manipulation.

The study of the Physics of Chemistry, and of Organic Chemistry, occupies a considerable portion of another term, and is accompanied with experiments.

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 geographical position—he is greatly assisted in acquiring and especially in retaining, a knowledge of both.

#### RHETORIC, LOGIC, AND MENTAL PHILOSOPHY.

The recitations in these studies are conducted by the Professor of Classical Literature, and are continued through the first term of the Junior and the second term of the Senior years. Occasional

exercises in the composition of Themes are required; and sufficient instruction is given in Declamation to put the student in the right way of self-improvement. The annual exhibition, at the end of the first term of the Junior year, gives the several members of that class the opportunity of original composition in Latin, Greek, or English, or of translation into Latin and Greek from some other language, and also of the public delivery of their compositions. Original exercises in the three languages named are also required of the graduating class at commencement.

#### GREEK AND LATIN CLASSICS.

In the Greek and Latin classics, every opportunity is offered of gaining accomplished scholarship. Preferring things to names, the College has placed in its course for the first two years some books, a knowledge of which is required for admission into many colleges; but, as daily recitations in this department are required throughout the *four years*, the Haverford student, at graduation, will not compare unfavorably, in classical attainments, with the average of the graduates of our first and oldest universities. In addition to the text-books read in the course, he will have had exercises in writing both languages; and instruction in history, antiquities, and classical geography in connection with his daily lessons. The most approved mural maps are provided to aid the student; and the library presents the best manuals of biography, mythology, antiquities, and geography.

It is aimed in this Department to improve 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 the Greek and Latin—the best practical logic.

## MATHEMATICS AND 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 the text-book are frequently proposed for solution. These exercises give him a fuller and more accurate knowledge of the subjects to which they pertain than he would otherwise acquire; and in many cases awaken a generous love for science, and incite to more vigorous and persevering efforts in its pursuit.

A large and valuable collection of apparatus belongs to the College, and is used in connection with the instruction in Mechanical Philosophy. Students have an opportunity of performing the experiments themselves, under the direction of the Professor. The well furnished Observatory presents peculiar advantages for the study of Astronomy.

In the College Library there is a valuable collection of mathematical works. If the more advanced students are disposed to become acquainted with Peirce's Analytical Mechanics, La Place's *Mecanique Celeste*, Gauss's *Theoria Motus*, or the Quaternions of Hamilton, they have here an opportunity of doing so.

## DRAWING.

Instruction in the best methods of Perspective and Mechanical Drawing is given by a competent teacher. The great importance of this study is fully recognized, and it is believed that the best facilities are presented for its pursuit.

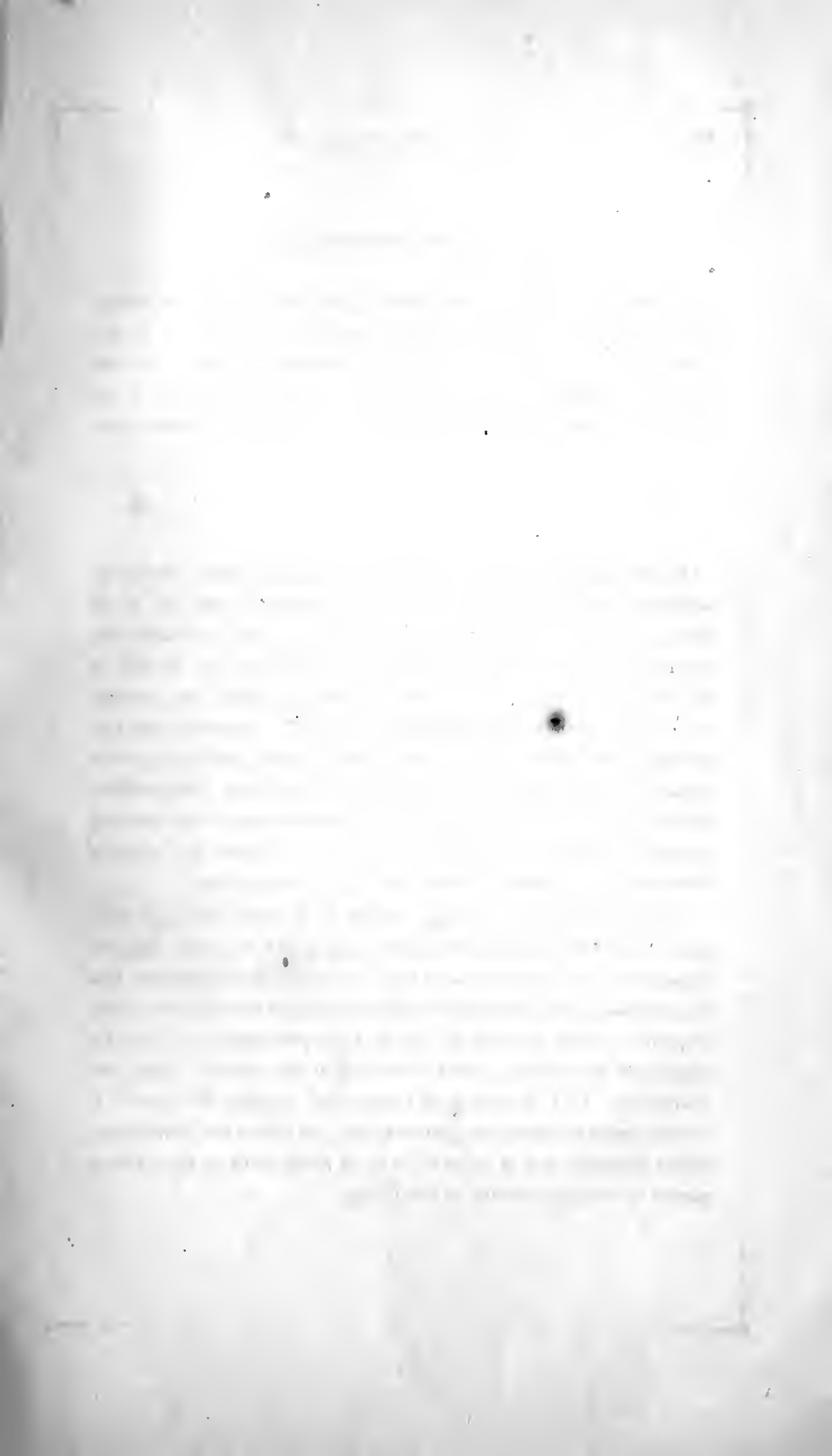
## RELIGIOUS INSTRUCTION.

In addition to the daily readings of the Holy Scriptures, recitations in them are required of each student once a week. In the last two years of the course there are recitations weekly in the Greek Testament. Gurney's Observations, and a treatise on Biblical Antiquities, are also studied in the Junior and Senior years.

## DISCIPLINE.

In the discipline of the College, while the executive 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, as well as 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 carrying out the discipline, private admonition and appeals to their good sense and conscientious feelings are much relied upon, and in most instances are the only means necessary. Even when this is not the case, the effect of this mode of treatment is believed to be always salutary.

The situation of the College, remote from cities and large villages, exempts the students from the temptations to which they are exposed in most institutions of the kind, while the supervision that is exercised by the officers is more thorough, in consequence of the regulation which requires all the students punctually to collect for meals and for retiring to bed, as well as at the times of study and recitation. This frequency of intercourse enables the officers to become more intimately acquainted with the habits and dispositions of the students, and is believed to be of great value as an auxiliary means in the government of the College.











*Chas Roberts*

**Haverford College,**

1861-62.



CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE,

FOR THE

ACADEMICAL YEAR

1861-62.

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PHILADELPHIA:  
E. KETERLINUS, PRINTER, N. W. COR. ARCH AND FOURTH STS.  
1861.

# Corporation.

---

*Secretary,*

CHARLES YARNALL.

*Treasurer,*

JOHN M. WHITALL.

## **MANAGERS:**

THOMAS KIMBER,	T. WISTAR BROWN,
CHARLES YARNALL,	JOSEPH W. TAYLOR, M. D.,
TOWNSEND SHARPLESS,	HARRISON ALDERSON,
SAMUEL HILLES,	DAVID SCULL,
ISAIAH HACKER,	HENRY HARTSHORNE, M. D.,
SAMUEL RHOADS,	WILLIAM S. HILLES,
GEORGE HOWLAND, A. M.,	JAMES WHITALL,
JEREMIAH HACKER,	WILLIAM BETTLE,
MARMADUKE C. COPE,	HUGH D. VAIL, A. M.,
JOHN M. WHITALL,	HAYDOCK GARRIGUES,
ANTHONY M. KIMBER,	EDWARD GARRETT,
THEOPHILUS E. BEESLEY, M. D.,	BENJAMIN V. MARSH,
WISTAR MORRIS,	JAMES CAREY THOMAS, M. D.

## Committee on Instruction.

THOMAS KIMBER,	SAMUEL RHOADS,
CHARLES YARNALL,	HARRISON ALDERSON,
MARMADUKE C. COPE,	WILLIAM S. HILLES,
JEREMIAH HACKER,	WILLIAM BETTLE,
JOHN M. WHITALL,	JAMES WHITALL,
HUGH D. VAIL, A. M.,	HENRY HARTSHORNE, M. D.

## Committee on Finance and Economy.

WISTAR MORRIS,	JAMES WHITALL,
MARMADUKE C. COPE,	T. WISTAR BROWN.

## Committee on Property.

JOHN M. WHITALL,	JOSEPH W. TAYLOR, M. D.,
WISTAR MORRIS,	HAYDOCK GARRIGUES,
	EDWARD GARRETT.

## Committee on Library and Apparatus.

CHARLES YARNALL,	T. WISTAR BROWN,
ANTHONY M. KIMBER,	HUGH D. VAIL, A. M.

## Committee on Admissions.

CHARLES YARNALL,	MARMADUKE C. COPE,
THOMAS KIMBER,	JAMES WHITALL,
JOHN M. WHITALL,	GEORGE HOWLAND, A. M.,
	JAMES CAREY THOMAS, M. D.

## Faculty.

SAMUEL HILLES,

PRESIDENT PRO TEM.

---

RESIDENT MEMBERS.

PAUL SWIFT, M. D.,

PROFESSOR OF MORAL, POLITICAL, AND NATURAL SCIENCE.

THOMAS CHASE, A. M.,

PROFESSOR OF THE GREEK AND LATIN LANGUAGES AND LITERATURE.

MOSES C. STEVENS,

PROFESSOR OF MATHEMATICS, NATURAL PHILOSOPHY, AND ASTRONOMY.

WILLIAM F. MITCHELL,

SUPERINTENDENT.

CHARLES ATHERTON,

LIBRARIAN.

THOMAS W. LAMB, A. B.,

TUTOR IN CLASSICS AND HISTORY, AND ASSISTANT LIBRARIAN.

---

JOHN WILSON,

INSTRUCTOR IN DRAWING.

## Under-Graduates.

### SENIOR CLASS.

NAMES.	RESIDENCE.
Coates, Henry Troth . . .	Philadelphia, . . . Pa.
Farnum, Samuel . . .	Milville, . . . Mass.
Hadley, Samuel Allen . . .	Osceola, . . . Ia.
Lippincott, Horace Greenough	Philadelphia, . . . Pa.
Mellor, George Brown . . .	Philadelphia, . . . Pa.
Williams, Horace . . .	Newport, . . . R. I.

### JUNIOR CLASS.

Batthey, Thomas Jesse . . .	Burrillville, . . . R. I.
Coates, Jr., George Morrison	Philadelphia, . . . Pa.
Coates, William Morrison . . .	Philadelphia, . . . Pa.
Corbit, Daniel W. . . .	Odessa, . . . Del.
Handy, Thomas Poultney . . .	Baltimore, . . . Md.
Jones, Richard Thomas . . .	Philadelphia, . . . Pa.
Morris, William Henry . . .	Philadelphia, . . . Pa.
Pinkham, Joseph Gurney . . .	North Vassalboro', . . . Me.

### SOPHOMORE CLASS.

Angell, Franklin . . .	South Corinth, . . . N. Y.
Ashbridge, William . . .	West Whiteland, . . . Pa.
Bacon, George Warder . . .	Philadelphia, . . . Pa.
Coates, Edward H. . . .	Philadelphia, . . . Pa.
Cooper, Howard M. . . .	Camden, . . . N. J.
Dennis, Jr., James . . .	Pawtucket, . . . R. I.
Garrett, Albin . . .	West Chester, . . . Pa.
Haines, Howard Lippincott . . .	Philadelphia, . . . Pa.
Hall, Frank Stevens . . .	Casco, . . . Me.
Lindley, John H. . . .	Indianapolis, . . . Ind.
Longstreth, Morris . . .	Germantown, . . . Pa.

NAMES.	RESIDENCE.
Pancoast, Albert . . .	Philadelphia, . . . Pa.
Parrish, William Wright . . .	Philadelphia, . . . Pa.
Roberts, Charles . . .	Philadelphia, . . . Pa.
Sampson, E. Pope . . .	Manchester, . . . Me.
Scull, Edward Lawrence . . .	Philadelphia, . . . Pa.
Shepherd, Caleb William . . .	Saratoga, . . . N. Y.
Smyth, Horace . . .	Philadelphia, . . . Pa.
Thomas, J. Preston . . .	West Whiteland, . . . Pa.
Wood, Randolph . . .	Philadelphia, . . . Pa.
Zook, John Miller . . .	West Whiteland, . . . Pa.

### FRESHMAN CLASS.

Brown, Edward Taylor . . .	Doylestown, . . . Pa.
Clapp, Samuel Hicks . . .	Philadelphia, . . . Pa.
Downing, Joseph Miller . . .	West Whiteland, . . . Pa.
Drake, James Haines . . .	Cincinnati, . . . O.
Febiger, Christian Carson . . .	Wilmington, . . . Del.
Gillis, John Pritchard . . .	Wilmington, . . . Del.
Haviland, Arthur . . .	Brooklyn, . . . N. Y.
Pharo, Joseph John . . .	Tuckerton, . . . N. J.
Roberts, Edward Churchman . . .	Brooklyn, . . . N. Y.
Shannon, John Relph . . .	Philadelphia, . . . Pa.
Sharpless, Harry Williams . . .	Philadelphia, . . . Pa.
Smith, Jr., George . . .	Upper Darby, . . . Pa.
Thomas, Allen Clapp . . .	Baltimore, . . . Md.
Vail, Benjamin Augustus . . .	Rahway, . . . N. J.
Wistar, Caleb Cresson . . .	Philadelphia, . . . Pa.

### SUMMARY.

Seniors, . . . . .	6
Juniors, . . . . .	8
Sophomores, . . . . .	21
Freshmen, . . . . .	15
Total, . . . . .	<u>50</u>



## Calendar.

Winter Term, 1861-62, began . . . . .	9 Mo. 11th.
Winter Term, 1861-62, ends . . . . .	1 Mo. 29th.
Summer Term, 1862, begins . . . . .	2 Mo. 19th.
Summer Term, 1862, ends . . . . .	7 Mo. 9th.
Public Examinations, 1862, 1 Mo. 27th, 28th, and 7 Mo. 7th, 8th.	
Biennial Examinations, 1862, begin . . . . .	5 Mo. 31st.
Biennial Examinations, 1862, end . . . . .	7 Mo. 5th.
Oration before Loganian Society, 1862, . . . . .	1 Mo. 28th.
Junior Exhibition, 1862, . . . . .	1 Mo. 29th.
Public Meeting of Loganian Society, 1862, . . . . .	7 Mo. 7th.
Address before Alumni, 1862, . . . . .	7 Mo. 8th.
Commencement, 1862, . . . . .	7 Mo. 9th.
Examinations for Admission, 1862, 2 Mo. 18th, and 9 Mo. 9th.	
Winter Term, 1862-3, begins . . . . .	9 Mo. 10th.

# Course of Study.

## FRESHMAN CLASS.

### MATHEMATICS.

Geometry, . . . . .	<i>Euclid.</i>
Algebra, . . . . .	<i>Alsop.</i>
Plane Trigonometry, . . . . .	<i>Gummere.</i>

### GREEK AND LATIN.

Greek Testament.

The Anabasis of Xenophon, . . . . .	<i>Crosby.</i>
Greek Syntax, . . . . .	<i>Crosby or Hadley.</i>
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Virgil, . . . . .	<i>Schmitz or Frieze.</i>

Latin Prosody.

Latin Prose Composition, . . . . .	<i>Arnold.</i>
Classical Geography and Antiquities, . . . . .	<i>Allen.</i>

### ENGLISH.

Compositions.

Universal History, . . . . .	<i>Weber.</i>
Chemistry, . . . . .	<i>Stoeckhardt.</i>
Geology, commenced, . . . . .	<i>Hitchcock.</i>

Biblical Antiquities.

Drawing.

## SOPHOMORE CLASS.

### MATHEMATICS.

Surveying, . . . . .	<i>Gummere.</i>
Spherical Trigonometry, Conic Sections, and Spherical Projections, . . . . .	<i>Lewis.</i>
Astronomy, . . . . .	<i>Herschel.</i>

## GREEK AND LATIN.

The Iliad of Homer, . . . . .	<i>Felton.</i>
Greek Prose Composition, continued, . . .	<i>Arnold.</i>
Cicero's Orations, . . . . .	<i>Folsom or Johnson.</i>
Livy, . . . . .	<i>Lincoln.</i>
Latin Prose Composition, continued, . . .	<i>Arnold.</i>

## ENGLISH.

Geology, continued, . . . . .	<i>Hitchcock.</i>
Physical Geography, . . . . .	<i>Guyot.</i>
Organic Chemistry, . . . . .	<i>Johnston.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>
Zoology, . . . . .	<i>By Lectures.</i>
Drawing.	

## JUNIOR CLASS.

## MATHEMATICS.

Astronomy, continued, . . . . .	<i>Herschel.</i>
Analytical Geometry, . . . . .	<i>Robinson.</i>
Differential and Integral Calculus, . . .	<i>Robinson.</i>

## GREEK AND LATIN.

The Prometheus of Æschylus, . . . . .	<i>Woolsey.</i>
Plato's Apology and Crito, . . . . .	<i>Tyler.</i>
Thucydides, . . . . .	<i>Owen.</i>
Greek Compositions.	
Horace, . . . . .	<i>Lincoln.</i>
The Germania and Agricola of Tacitus, . .	<i>Tyler.</i>
Latin Compositions.	
Greek Testament, . . . . .	<i>Tischendorf.</i>

## ENGLISH.

Rhetoric, . . . . .	<i>Whately.</i>
English, Past and Present, . . . . .	<i>Trench.</i>
Logic, { the Aristotelian system, . . . . .	<i>Whately.</i>
{ the Hamiltonian system, . . . . .	<i>By Lectures.</i>
Political Economy, . . . . .	<i>Wayland.</i>
The Law of Nations, and American Law, . . . . .	<i>Kent.</i>
Themes.	
Drawing.	

## SENIOR CLASS.

## MATHEMATICS.

Mechanical Philosophy, . . . . .	<i>Snell's Olmsted.</i>
Optics, . . . . .	<i>Snell's Olmsted.</i>
Practical Astronomy, . . . . .	<i>Loomis.</i>

## GREEK AND LATIN.

Thucydides, . . . . .	<i>Owen.</i>
The Antigone of Sophocles, . . . . .	<i>Woolsey.</i>
Greek Compositions.	
Cicero's Tusculan Disputations, and Somnium Scipionis, . . . . .	<i>Chase.</i>
Curtius, "De Gestis Alexandri Magni," . . . . .	<i>Zumpt.</i>
The Captivi of Plautus.	
Latin Compositions and Extemporalia.	
Greek Testament, . . . . .	<i>Tischendorf.</i>
Modern Greek, . . . . .	<i>By Lectures.</i>

## ENGLISH.

Moral Philosophy, . . . . .	<i>Dymond.</i>
Analogy of Natural and Revealed Religion, . . . . .	<i>Butler.</i>
Gurney's Observations.	
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Mental Philosophy, . . . . .	<i>Haven.</i>
Forensics.	

## Admissions.

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 can be admitted to **ADVANCED STANDING**, when they can pass a satisfactory Examination in all the previous studies of the Course.

It is very important that the candidates should be thoroughly prepared, particularly in grammatical and elementary knowledge.

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## Lectures.

The Course of Lectures for the winter of 1861-62 is as follows:—

<i>Chemistry,</i>	. . . . .	PROFESSOR SWIFT.
<i>Architecture,</i>	. . . . .	PROFESSOR CHASE.
<i>The Telescope and its Revelations,</i>	. . . . .	PROFESSOR STEVENS.
<i>The Meanings of Mythology,</i>	. . . . .	PROFESSOR CHASE.

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## 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 Examination of each Class occupies about two weeks.

At the end of each Term there is a public oral Examination of all the Classes.

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## Degree of Master of Arts.

GRADUATES of three years' standing can 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 Faculty. 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 aperture of  $8\frac{1}{4}$  inches, 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  $\frac{1}{4}$  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 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.

The cost of the Telescope was \$ 2100; of the Transit Instrument, \$ 1000; the Sidereal Clock, \$ 300; the Magnetic Chronograph, \$ 300; the Sextant, \$ 150; the Dolland Prime-Vertical Transit, \$ 200; the Solar Clock, \$ 150: and \$ 2500 was expended upon the building.

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## Library and Apparatus.

The LIBRARY of the College contains about 3000 volumes; that of the Loganian Society about 1500, making the whole number of books in the two Libraries, 4500.

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 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. These operations are conducted under the supervision of the Professor of Chemistry.

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## 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 1500 volumes, and cabinets of conchology, geology, natural history, medals, and coins. A large and well-furnished GYMNASIUM, also, is under its direction.

The ATHENÆUM and EVERETT are literary societies of the students.

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## Alumni Prize Essays.

Two prizes are biennially offered by the Alumni Association for English Essays, as follows:—

A prize of *thirty dollars*, called the Alumni Prize, for the best Essay by any student of the College or member of the Association;

And a prize of *fifteen dollars*, called the Under-Graduates' Prize, for the best Essay by any member of the Senior or Junior Class.



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 next competition for these prizes will be in 1863. For the year 1862 an extraordinary prize of *fifty dollars* is offered, open to the competition of the members of the Association and the under-graduates alike. The Awarding Committee is composed of the following gentlemen:

DR. HENRY HARTSHORNE, No. 1433 Arch Street, Philadelphia.

BENJAMIN V. MARSH, No. 309 Market Street, Philadelphia.

JAMES WHITALL, No. 410 Race Street, Philadelphia.

The Essays must be forwarded to some member of this Committee by the first of the Sixth Month, 1862. Competitors must choose their theme from the following subjects:

1. The causes which chiefly promote or retard the spread of Christianity.
2. The Utility of Manual Labour Schools.
3. The Physical and Moral Effects of the general introduction of Machinery upon mankind.
4. The influence of the teachings of George Fox on Civil and Religious Liberty.

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## 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, perhaps unsurpassed by any lawn in the State. All the students board at the College.

## Commencement, Terms, Tuition, &c.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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 children of Friends, and of those professing with them, who desire their children to be educated in conformity with the principles of our religious Society.”

The price of Board and Tuition is \$300 per annum, payable as follows:—\$100 at the beginning of each Term, and \$50 at the middle of it.

## Graduates.

1836.

THOMAS F. COCK, M. D., . . . New York, . . . N. Y.  
 JOSEPH WALTON, . . . Philadelphia, . . . Pa.

1837.

WILLIAM C. LONGSTRETH, . . . Philadelphia, . . . Pa.  
 DAVID C. MURRAY, . . . New York, . . . N. Y.  
 LINDLEY MURRAY, . . . New York, . . . N. Y.  
 BENJAMIN V. MARSH, . . . Rahway, . . . N. J.  
 JOSEPH L. PENNOCK, . . . Philadelphia, . . . Pa.  
 ROBERT B. PARSONS, . . . Flushing, . . . N. Y.  
 CHARLES L. SHARPLESS, . . . Philadelphia, . . . Pa.  
 LLOYD P. SMITH, . . . Philadelphia, . . . Pa.  
 B. WYATT WISTAR, . . . Philadelphia, . . . Pa.

1838.

JAMES V. EMLLEN, M. D., . . . Philadelphia, . . . Pa.  
 JOHN ELLIOTT, . . . Philadelphia, . . . Pa.

1839.

FREDERICK COLLINS, . . . Philadelphia, . . . Pa.  
 THOMAS P. COPE, . . . Philadelphia, . . . Pa.  
 HENRY HARTSHORNE, A. M., M. D., Philadelphia, . . . Pa.  
 NEREUS MENDENHALL, M. D., . . . Guilford Co., . . . N. C.  
 RICHARD RANDOLPH, JR., M. D., Philadelphia, . . . Pa.  
 CHARLES TABER, . . . New Bedford, . . . Mass.

1840.

JOSEPH HOWELL, . . . Philadelphia, . . . Pa.  
 ANTHONY M. KIMBER, . . . Philadelphia, . . . Pa.  
 HENRY H. G. SHARPLESS, . . . Philadelphia, . . . Pa.  
 JOHN R. WINSLOW, M. D., . . . Hertford, . . . N. C.

1841.

RICHARD H. LAWRENCE, . . . New York, . . . N. Y.  
 JAMES P. PEROT, . . . Philadelphia, . . . Pa.  
 ELIAS A. WHITE, . . . North Carolina, . . . N. C.

1842.

ROBERT BOWNE, . . . .	New York, . . . .	N. Y.
RICHARD CADBURY, . . . .	Philadelphia, . . . .	Pa.
WILLIAM S. HILLES, . . . .	Wilmington, . . . .	Del.
THOMAS KIMBER, JR., . . . .	Philadelphia, . . . .	Pa.
JAMES J. LEVICK, M. D., . . . .	Philadelphia, . . . .	Pa.
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.

ROBERT B. HOWLAND, . . . .	New Bedford, . . . .	Mass.
FRANCIS WHITE, . . . .	North Carolina, . . . .	N. C.
WILLIAM D. STROUD, M. D., . . . .	Philadelphia, . . . .	Pa.

1844.

EVAN T. ELLIS, . . . .	Philadelphia, . . . .	Pa.
ISAAC HARTSHORNE, . . . .	Philadelphia, . . . .	Pa.
ROBERT B. HAINES, . . . .	Germantown, . . . .	Pa.

1845.

EDMUND CRENSHAW, . . . .	Richmond, . . . .	Va.
ROBERT PEARSALL, . . . .	Philadelphia, . . . .	Pa.

1849.

ALBERT K. SMILEY, A. M., . . . .	Vassalborough, . . . .	Me.
ALFRED H. SMILEY, . . . .	Vassalborough, . . . .	Me.

1851.

JOSEPH L. BAILEY, . . . .	Berks Co. . . . .	Pa.
PHILIP C. GARRETT, . . . .	Philadelphia, . . . .	Pa.
THOMAS J. LEVICK, . . . .	Philadelphia, . . . .	Pa.
FRANKLIN E. PAIGE, A. M., . . . .	Ware, . . . .	N. H.
ZACCHEUS TEST, M. D., . . . .	Richmond, . . . .	Ind.
JAMES C. THOMAS, M. D., . . . .	Baltimore, . . . .	Md.
RICHARD WOOD, . . . .	Philadelphia, . . . .	Pa.

1852.

DOUGAN CLARK, M. D. . . . .	New Garden, . . . .	N. C.
LEWIS N. HOPKINS, . . . .	Baltimore, . . . .	Md.
WILLIAM L. KINSMAN, . . . .	Salem, . . . .	Mass.
WILLIAM E. NEWHALL, . . . .	Philadelphia, . . . .	Pa.
JAMES WHITALL, . . . .	Philadelphia, . . . .	Pa.

1853.

WILLIAM B. MORGAN, A. M., . . . .	Raysville, . . . .	Ind.
WILLIAM H. PANCOAST, M. D., . . . .	Philadelphia, . . . .	Pa.

## 1854.

FREDERICK ARTHUR, JR.,	Nantucket,	Mass.
JOHN W. CADBURY,	Philadelphia,	Pa.
JOHN B. GARRETT,	Philadelphia,	Pa.
DAVID SCULL, JR.,	Philadelphia,	Pa.

## 1855.

*SAMUEL BETTLE,	Philadelphia,	Pa.
JOHN R. HUBBARD, A. M.,	New Garden,	N. C.

## 1856.

BARTHOLOMEW W. BEESLEY,	Philadelphia,	Pa.
JOEL CADBURY, JR.,	Philadelphia,	Pa.
JONATHAN J. COMFORT, M. D.,	Tecumseh,	Mich.
JAMES M. WALTON,	Philadelphia,	Pa.
EDWARD R. WOOD, A. M.,	Philadelphia,	Pa.

## 1857.

JESSE S. CHENEY, 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.
THOMAS WISTAR, A. M.,	Philadelphia,	Pa.
ELLIS H. YARNALL,	Philadelphia,	Pa.

## 1859.

RICHARD W. CHASE,	Burlington,	N. J.
JAMES R. MAGEE,	Philadelphia,	Pa.
RICHARD C. PAXSON,	San Francisco,	Cal.
EDWARD RHOADS,	Philadelphia,	Pa.
EDWARD C. SAMPSON,	Manchester,	Me.
GEORGE SAMPSON,	Manchester,	Me.
ABRAM SHARPLES,	Ivy Mills,	Pa.
BENJAMIN H. SMITH,	Upper Darby,	Pa.

## 1860.

‡LINDLEY M. CLARK,	Carthage,	Ind.
WILLIAM B. CORBIT,	Odessa,	Del.
WILLIAM M. CORLIES,	Philadelphia,	Pa.
CYRUS LINDLEY,	Monrovia,	Ind.
FREDERICK W. MORRIS,	Philadelphia,	Pa.
THEODORE H. MORRIS,	Philadelphia,	Pa.
RICHARD PANCOAST,	Philadelphia,	Pa.

\*Obiit 1850.

†Obiit 1858.

‡Obiit 1861.

JOHN W. PINKHAM,	. . .	North Vassalborough,	Me.
FRANCIS RICHARDSON,	. . .	Philadelphia,	Pa.
CLEMENT L. SMITH,	. . .	Upper Darby,	Pa.
JAMES TYSON,	. . .	Reading,	Pa.
SILAS A. UNDERHILL,	. . .	Brooklyn,	N. Y.

1861.

CHARLES BETTLE,	. . .	Philadelphia,	Pa.
EDWARD BETTLE,	. . .	Philadelphia,	Pa.
HENRY BETTLE,	. . .	Philadelphia,	Pa.
WILLIAM B. BROOMALL,	. . .	Media,	Pa.
CHARLES H. JONES,	. . .	Tamaqua,	Pa.
THOMAS W. LAMB,	. . .	Newby's Bridge,	N. C.
WILLIAM N. POTTS,	. . .	Philadelphia,	Pa.
JEHU H. STUART,	. . .	Westminster,	N. C.
JOHN C. THOMAS,	. . .	Baltimore,	Md.

Whole number of Graduates, . . . . . 110.

## Honorary Degrees.

1858.

HUGH D. VAIL, A. M.,	. . .	Plainfield,	N. J.
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1859.

JOSEPH W. ALDRICH, A. M.,	. . .	Philadelphia,	Pa.
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1860.

JOHN G. WHITTIER, A. M.,	. . .	Amesbury,	Mass.
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REMARKS  
UPON THE  
*Course of Study and Discipline.*

MORAL, POLITICAL, AND NATURAL SCIENCE.

In these Departments the method of instruction aims at making the lessons, whatever the subject, as nearly practical as possible. In Moral or Political Science, for example, the principle is illustrated and enforced by applying it to the practices and the wants of every day life. If the subject be Natural Science, the student is brought 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; together, over 5000. In Zoology, less has been done; yet a beginning has been made, and many valuable specimens are already in the Cabinet. These collections, together with illustrations by diagrams, models, and maps, enable the teacher 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 familiarizing 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.

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 geographical position—he is greatly assisted in acquiring, and especially in retaining, a knowledge of both.

#### RHETORIC, LOGIC, AND MENTAL PHILOSOPHY.

The recitations in these studies are conducted by the Professor of Classical Literature, and are continued through the first term of the Junior, and the second term of the Senior years. Exercises in the composition of Themes are required; and sufficient instruction is given in Declamation to put the student in the right way of self-improvement. The annual exhibition, at the end of the first term of the Junior year, gives the several members of that class the opportunity of original composition in Latin, Greek, or English, or of translation into Latin or Greek from some other language, and also of the public delivery of their compositions. Original exercises are also required of the graduating class at commencement.



## GREEK AND LATIN CLASSICS.

It is aimed 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, and instruction in history, antiquities, and classical geography is given in connection with the daily lessons. The most approved mural maps are provided, and the library presents the best manuals of biography, mythology, antiquities, and geography.

## MATHEMATICS AND 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. Students have an opportunity of performing the experiments themselves, under the direction of the Professor. The well furnished Observatory presents peculiar advantages for the study of Astronomy.

In the College Library there is a large collection of mathematical works. If the more advanced students are disposed to become acquainted with Peirce's Analytical Mechanics, La Place's *Mécanique Celeste*, Gauss's *Theoria Motus*, or the Quaternions of Hamilton, they have the opportunity of doing so.

#### DRAWING.

Instruction in the best methods of Perspective and Mechanical Drawing is given by a competent teacher. A knowledge of this art being regarded as indispensable in a good education, the best facilities are presented for its pursuit.

#### RELIGIOUS INSTRUCTION.

In addition to the daily readings of the Holy Scriptures, recitations in them are required of each student once a week. In the last two years of the course there are recitations weekly in the Greek Testament. Gurney's *Observations*, and a treatise on *Biblical Antiquities*, are also studied.

#### DISCIPLINE.

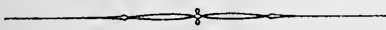
In the discipline of the College, while the executive officers endeavor to promote habits of order and regularity, they aim to do this in a spirit of kindness and forbearance. Such restraints only are imposed as are deemed necessary to attain this end, as well as to secure the students from those temptations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





6

A  
CATALOGUE  
OF THE  
**Officers and Students**  
OF  
**Haverford College,**  
FOR THE  
**ACADEMICAL YEAR**  
1862-63.



PHILADELPHIA:  
E. KETTERLINUS, PRINTER, N. W. COR. ARCH AND FOURTH STS.  
1862.





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A  
CATALOGUE  
OF THE  
Officers and Students  
OF  
HAVERFORD COLLEGE,  
FOR THE  
ACADEMICAL YEAR  
1862-63.

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PHILADELPHIA:  
E. KETTERLINUS, PRINTER, N. W. COR. ARCH AND FOURTH STS.  
1862.

# Corporation.

---

*Secretary,*

WILLIAM S. HILLES.

*Treasurer,*

JOHN M. WHITALL.

## MANAGERS:

THOMAS KIMBER,  
CHARLES YARNALL,  
TOWNSEND SHARPLESS,  
SAMUEL HILLES,  
SAMUEL RHOADS,  
GEORGE HOWLAND, A. M.,  
JEREMIAH HACKER,  
MARMADUKE C. COPE,  
JOHN M. WHITALL,  
ANTHONY M. KIMBER,  
THEOPHILUS E. BEESLEY, M. D.  
WISTAR MORRIS,

T. WISTAR BROWN,  
JOSEPH W. TAYLOR, M. D.  
HARRISON ALDERSON,  
DAVID SCULL,  
WILIAM S. HILLES,  
HENRY HARTSHORNE, M. D.,  
JAMES WHITALL,  
HUGH D. VAIL, A. M.,  
HAYDOCK GARRIGUES,  
EDWARD GARRETT,  
BENJAMIN V. MARSH,  
JAMES CAREY THOMAS, M. D.

PHILIP C. GARRETT.

*Secretary of the Board,*

CHARLES YARNALL.

## Committee on Instruction.

THOMAS KIMBER,  
CHARLES YARNALL,  
MARMADUKE C. COPE,  
JEREMIAH HACKER,  
JOHN M. WHITALL,  
SAMUEL RHOADS,

HARRISON ALDERSON,  
WILLIAM S. HILLES,  
JAMES WHITALL,  
HUGH D. VAIL, A. M.,  
HENRY HARTSHORNE, M. D.,  
BENJAMIN V. MARSH.

## Committee on Finance and Economy.

T. WISTAR BROWN,  
JAMES WHITALL,

BENJAMIN V. MARSH,  
ANTHONY M. KIMBER.

## Committee on Property.

JOHN M. WHITALL,  
WISTAR MORRIS,  
JOSEPH W. TAYLOR, M. D.  
HAYDOCK GARRIGUES,

EDWARD GARRETT,  
HUGH D. VAIL, A. M.,  
SAMUEL RHOADS,  
MARMADUKE C. COPE.

## Committee on Library and Apparatus.

CHARLES YARNALL,  
ANTHONY M. KIMBER,

T. WISTAR BROWN,  
HUGH D. VAIL, A. M.

## Committee on Admissions.

CHARLES YARNALL,  
THOMAS KIMBER,  
JOHN M. WHITALL,

MARMADUKE C. COPE,  
GEORGE HOWLAND, A. M.,  
JAMES CAREY THOMAS, M. D.

## Faculty.

SAMUEL J. GUMMERE,

PRESIDENT.

PAUL SWIFT, M. D.,

PROFESSOR OF MORAL, POLITICAL, AND NATURAL SCIENCE.

THOMAS CHASE, A. M.,

PROFESSOR OF THE GREEK AND LATIN LANGUAGES AND LITERATURE.

SAMUEL J. GUMMERE,

PROFESSOR OF MATHEMATICS, PHYSICS, AND ASTRONOMY.

JOHN W. PINKHAM, A. B.,

TUTOR IN CLASSICS AND MATHEMATICS, AND LIBRARIAN.

---

JOHN B. WILSON,

INSTRUCTOR IN DRAWING.

## Under-Graduates.

### SENIOR CLASS.

NAMES.	RESIDENCE.
Bathey, Thomas Jesse . . .	Burrillville, . . . R. I.
Coates, Jr., George Morrison	Philadelphia, . . . Pa.
Coates, William Morrison . .	Philadelphia, . . . Pa.
Jones, Richard Thomas . . .	Philadelphia, . . . Pa.
Morris, William Henry . . .	Philadelphia, . . . Pa.
Pinkham, Joseph Gurney . . .	North Vassalborough, . Me.

## JUNIOR CLASS.

NAMES.	RESIDENCE.
Angell, Franklin	South Corinth, N. Y.
Ashbridge, William	West Whiteland, Pa.
Coates, Edward H.	Philadelphia, Pa.
Cooper, Howard M.	Camden, N. J.
Garrett, Albin	Westchester, Pa.
Hall, Frank Stevens	Casco, Me.
Longstreth, Morris	Germantown, Pa.
Pancoast, Albert	Philadelphia, Pa.
Parry, Charles	Cinnaminson, N. J.
Roberts, Charles	Philadelphia, Pa.
Sampson, E. Pope	Manchester, Me.
Scull, Edward Lawrence	Philadelphia, Pa.
Wood, Randolph	Philadelphia, Pa.

## SOPHOMORE CLASS.

NAMES.	RESIDENCE.
Bringhurst, John Richardson	Wilmington, . . Del.
Brown, Edward Taylor	Doylestown, . . Pa.
Chase, James Anthony	Philadelphia, . . Pa.
Clapp, Samuel Hicks . .	Philadelphia, . . Pa.
Downing, Joseph Miller	West Whiteland, . Pa.
Elliott, Aaron Marshall	New Garden, . . N. C.
Febiger, Christian Carson	Wilmington, . . Del.
Gillis, John Pritchett . .	Wilmington, . . Del.
Haviland, Arthur . . . .	Brooklyn, . . . . N. Y.
Nichols, David Holder	East Vassalborough, . Me.
Pharo, Joseph John . . . .	Tuckerton, . . . . N. J.
Richardson, Henry Banning	Wilmington, . . . . Del.
Shannon, John Relph . . . .	Philadelphia, . . . . Pa.

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NAMES.	RESIDENCE.
Sharpless, Henry Williams	Philadelphia, . . Pa.
Smith, Jr., George	Upper Darby, . . Pa.
Swift, Henry Hinsdale	Hart's Village, . . N. Y.
Thomas, Allen Clapp	Baltimore, . . Md.
Vail, Benjamin Augustus	Rahway, . . N. J.
Wistar, Caleb Cresson	Philadelphia, . . Pa.



## FRESHMAN CLASS.

NAMES.	RESIDENCE.
Beck, Charles Bayard . .	Philadelphia, . . Pa
Brown, Harry Clay . .	Doylestown, . . Pa.
Cloud, Joseph Cooper . .	Woodbury, . . N. J.
Gummere, Richard Morris .	Germantown, . . Pa.
Pendleton, Edward Gray .	Martinsburg, . . Va.
Pendleton, Charles Mason .	Martinsburg, . . Va.
Redman, Samuel Bispham .	Haddonfield, . . N. J.
Sands, William Leech . .	New York, . . N. Y.
Tatham, Henry Billington .	Philadelphia, . . Pa.
Tomlinson, Benjamin Albert	Laurel Mills, . . N. J.
Tomlinson, Ephraim . .	Laurel Mills, . . N. J.
Valentine, Benjamin Eyre .	Salem, . . Mass.
Woodward, Jr., Thomas . .	New York, . . N. Y.

**SUMMARY.**

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Seniors, . . . . .	6
Juniors, . . . . .	13
Sophomores, . . . . .	19
Freshmen, . . . . .	13
	<hr/>
Total, . . . . .	51

## Calendar.

Winter Term, 1862-63, began . . . . .	9 Mo. 10th.
Winter Term, 1862-63, ends . . . . .	1 Mo. 28th.
Summer Term, 1863, begins . . . . .	2 Mo. 18th.
Summer Term, 1863, ends . . . . .	7 Mo. 8th.
Public Examinations, 1863, 1 Mo. 26th, 27th, and 7 Mo. 6th, 7th.	
Biennial Examinations, 1863, begin . . . . .	5 Mo. 30th.
Biennial Examinations, 1863, end . . . . .	7 Mo. 4th.
Oration before Loganian Society, 1863, . . . . .	1 Mo. 27th.
Junior Exhibition, 1863, . . . . .	1 Mo. 28th.
Address before Alumni, 1863, . . . . .	7 Mo. 7th.
Public Meeting of Loganian Society, 1863, . . . . .	7 Mo. 7th.
Commencement, 1863, . . . . .	7 Mo. 8th.
Examinations for Admission, 1863, 2 Mo. 17th, and 9 Mo. 8th.	
Winter Term, 1863-64, begins . . . . .	9 Mo. 9th.

# Course of Study.

## FRESHMAN CLASS.

### MATHEMATICS.

Geometry, . . . . .	<i>Euclid.</i>
Algebra, . . . . .	<i>Alsop.</i>
Plane Trigonometry, . . . . .	<i>Gummere.</i>

### GREEK AND LATIN.

Greek Testament, . . . . .	
The Anabasis of Xenophon, . . . . .	<i>Crosby.</i>
Greek Syntax, . . . . .	<i>Crosby or Hadley.</i>
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Virgil, . . . . .	<i>Schmitz or Frieze.</i>
Latin Prosody.	
Latin Prose Composition, . . . . .	<i>Arnold.</i>
Classical Geography and Antiquities, . . . . .	<i>Kiepert and Smith.</i>

### ENGLISH.

Compositions.	
Universal History, . . . . .	<i>Weber.</i>
Chemistry, . . . . .	<i>Stoeckhardt.</i>
Geology commenced, . . . . .	<i>Hitchcock.</i>
Biblical Antiquities.	
Drawing.	

## SOPHOMORE CLASS.

## MATHEMATICS.

Surveying, . . . . .	<i>Gummere.</i>
Spherical Trigonometry, Conic Sections, and Spherical Projections, . . . .	<i>Lewis.</i>
Astronomy, . . . . .	<i>Herschel.</i>

## GREEK AND LATIN.

The Iliad of Homer, . . . . .	<i>Felton.</i>
Greek Prose Composition, continued, . .	<i>Arnold.</i>
Livy, . . . . .	<i>Lincoln.</i>
Cicero against Verres.	
Latin Prose Composition, continued, . .	<i>Arnold.</i>

## ENGLISH.

Geology, continued, . . . . .	<i>Hitchcock.</i>
Physical Geography, . . . . .	<i>Guyot.</i>
Organic Chemistry, . . . . .	<i>Johnston.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>
Zoology, . . . . .	<i>By Lectures.</i>
Drawing.	

## JUNIOR CLASS.

### MATHEMATICS.

Astronomy, continued, . . . . *Herschel.*

Analytical Geometry.

Differential and Integral Calculus.

### GREEK AND LATIN.

The Prometheus of Æschylus, . . . *Woolsey.*

Plato or Demosthenes.

Thucydides, . . . . . *Owen.*

Greek Composition.

Horace, . . . . . *Lincoln.*

The Germania and Agricola of Tacitus, . *Tyler.*

Latin Exercises and Extemporalia.

Greek Testament, . . . . . *Tischendorf.*

### ENGLISH.

Rhetoric, . . . . . *Whately.*

English, Past and Present, . . . *Trench.*

Logic, { the Aristotelian system, . . . *Whately.*  
 { the Hamiltonian system, . . . *By Lectures.*

Political Economy, . . . . . *Wayland.*

The Law of Nations, and American Law, *Kent.*

Themes.

Drawing.

## SENIOR CLASS.

### MATHEMATICS.

Analytical Mechanics, . . . . .	<i>Snell's Olmsted.</i>
Optics, . . . . .	<i>Snell's Olmsted.</i>
Practical Astronomy, . . . . .	<i>Loomis, with practice in the Observatory.</i>

### GREEK AND LATIN.

Thucydides, . . . . .	<i>Owen.</i>
The Antigone of Sophocles, . . . . .	<i>Woolsey.</i>
Greek Composition.	
The Epistles of Horace, . . . . .	<i>Lincoln.</i>
Cicero's Tusculan Disputations, and Somnium Scipionis, . . . . .	<i>Chase.</i>
The Letters of Pliny the Younger.	
The Captivi of Plautus.	
Latin Themes and Extemporalia.	
Greek Testament, . . . . .	<i>Tischendorf.</i>
Modern Greek. . . . .	<i>By Lectures.</i>

### ENGLISH

Ethics, . . . . .	<i>Dymond.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>
Gurney's Observations.	
Lectures on Modern History, . . . . .	<i>Arnold.</i>
Psychology, . . . . .	<i>Haven.</i>
Forensics.	

## Admissions.

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 can be admitted to ADVANCED STANDING, when they can pass a satisfactory Examination in all the previous studies of the Course.

It is very important that the candidates should be thoroughly prepared, particularly in grammatical and elementary knowledge.

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## Lectures.

The Courses of Lectures to the whole College for the winter of 1862-63 are as follows:—

<i>Recent Discoveries in Physical Science,</i>	PRESIDENT GUMMERE.
<i>Geology,</i>	PROFESSOR SWIFT.
<i>Comparative Philology,</i>	PROFESSOR CHASE.



## 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 Examination of each Class occupies about two weeks.

At the end of each Term there is a public oral Examination of all the Classes.

## Degree of Master of Arts.

GRADUATES of three years' standing can 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.

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## 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 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.

The cost of the Telescope was \$ 2100; of the Transit Instrument, \$ 1000; the Sidereal Clock, \$ 300; the Magnetic Chronograph, \$ 300; the Sextant, \$ 150; the Dolland Prime-Vertical Transit, \$ 200; the Solar Clock, \$ 150; and \$ 2500 was expended upon the building.

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## Library and Apparatus.

The LIBRARY of the College contains upwards of 3000 volumes; that of the Loganian Society about 1500, making the whole number of books in the two Libraries, 4500.

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 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.

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## 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 1500 volumes, and cabinets of conchology, geology, natural history, medals, and coins. A large and well-furnished GYMNASIUM, also, is under its direction.

The ATHENÆUM and EVERETT are literary societies of the students.

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## 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;

And a prize of *fifty dollars*, called the Under-Graduates' Prize, for the best Essay by any member of the College Classes.

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.

For the year 1863, the prize of *fifty dollars* is offered to the competition of the under-graduates. No theme is prescribed, but the subjects are left to the selection of the writers. The Awarding Committee is composed of the following gentlemen: CHARLES HARTSHORNE, 418 S. Delaware Avenue, Philadelphia. DR. JAMES CAREY THOMAS, Baltimore.

EDWARD R. WOOD, A. M., 209 S. Sixth Street, Philadelphia.

The Essays must be forwarded to some member of this Committee by the first of the Sixth Month, 1863.

In the year 1862, a prize of *fifty dollars* was awarded to EDWARD R. WOOD, A. M., of the Class of 1856, for his Essay on "The influence of the teachings of George Fox on Civil and Religious Liberty."

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## 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, perhaps 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 entrusted to the Matron, ELIZABETH B. HOPKINS.

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## Commencement, Terms, Tuition, &c.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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 \$ 300 per annum, payable as follows:—\$ 100 at the beginning of each Term, and \$ 50 at the middle of it.

## Graduates.

1836.

THOMAS F. COCK, M. D., . . . New York, . N. Y.  
 JOSEPH WALTON, . . . Philadelphia, . Pa.

1837.

WILLIAM C. LONGSTRETH, . . Philadelphia, . Pa.  
 DAVID C. MURRAY, . . . New York, . N. Y.  
 LINDLEY MURRAY, . . . New York, . N. Y.  
 BENJAMIN V. MARSH, . . . Rahway, . N. J.  
 JOSEPH L PENNOCK, . . . Philadelphia, . Pa.  
 ROBERT B. PARSONS, . . . Flushing, . N. Y.  
 CHARLES L. SHARPLESS, . . Philadelphia, . Pa.  
 LLOYD P. SMITH, . . . Philadelphia, . Pa.  
 B. WYATT WISTAR, . . . Philadelphia, . Pa.

1838.

JAMES V. EMLLEN, M. D., . . Philadelphia, . Pa.  
 JOHN ELLIOTT, . . . Philadelphia, . Pa.

## 1839.

FREDERICK COLLINS,	. . .	Philadelphia,	. Pa.
THOMAS P. COPE,	. . .	Philadelphia,	. Pa.
HENRY HARTSHORNE, A. M., M. D.,		Philadelphia,	. Pa.
NEREUS MENDENHALL, M. D.,	. .	Guilford Co.,	. N. C.
RICHARD RANDOLPH, JR., M. D.,		Philadelphia,	. Pa.
CHARLES TABER,	. . .	New Bedford,	. Mass.

## 1840.

JOSEPH HOWELL,	. . .	Philadelphia,	. Pa.
ANTHONY M. KIMBER,	. . .	Philadelphia,	. Pa.
HENRY H. G. SHARPLESS,	. .	Philadelphia,	. Pa.
JOHN R. WINSLOW, M. D.,	. .	Hertford,	. N. C.

## 1841.

*RICHARD H. LAWRENCE,	. .	New York,	. N. Y.
JAMES P. PEROT,	. . .	Philadelphia,	. Pa.
ELIAS A. WHITE,	. . .	North Carolina,	. N. C.

## 1842.

ROBERT BOWNE,	. . .	New York,	. N. Y.
RICHARD CADBURY,	. . .	Philadelphia,	. Pa.
WILLIAM S. HILLES,	. . .	Wilmington,	. Del.
THOMAS KIMBER, JR.,	. . .	Philadelphia,	. Pa.
JAMES J. LEVICK, M. D.,	. .	Philadelphia,	. Pa.
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.

\* Obit.



## 1843.

ROBERT B. HOWLAND,	. . .	New Bedford,	. . .	Mass.
FRANCIS WHITE,	. . .	North Carolina,	. . .	N. C.
WILLIAM D. STROUD, M. D.,	. . .	Philadelphia,	. . .	Pa.

## 1844.

EVAN T. ELLIS,	. . .	Philadelphia,	. . .	Pa.
ROBERT B. HAINES,	. . .	Germantown,	. . .	Pa.
ISAAC HARTSHORNE,	. . .	Philadelphia,	. . .	Pa.

## 1845.

EDMUND CRENSHAW,	. . .	Richmond,	. . .	Va.
ROBERT PEARSALL,	. . .	Philadelphia,	. . .	Pa.

## 1849.

ALBERT K. SMILEY, A. M.,	. . .	Vassalborough,	. . .	Me.
ALFRED H. SMILEY,	. . .	Vassalborough,	. . .	Me.

## 1851.

JOSEPH L. BAILEY,	. . .	Berks Co.,	. . .	Pa.
PHILIP C. GARRETT,	. . .	Philadelphia,	. . .	Pa.
THOMAS J. LEVICK,	. . .	Philadelphia,	. . .	Pa.
FRANKLIN E. PAIGE, A. M.,	. . .	Ware,	. . .	N. H.
ZACCHEUS TEST, M. D.,	. . .	Richmond,	. . .	Ind.
JAMES C. THOMAS, M. D.	. . .	Baltimore,	. . .	Md.
RICHARD WOOD,	. . .	Philadelphia,	. . .	Pa.

## 1852.

DOUGAN CLARK, M. D.	New Garden,	N. C.
LEWIS N. HOPKINS,	Baltimore,	Md.
WILLIAM L. KINSMAN,	Salem,	Mass.
WILLIAM E. NEWHALL,	Philadelphia,	Pa.
JAMES WHITALL,	Philadelphia,	Pa.

## 1853.

WILLIAM B. MORGAN, A. M.,	Raysville,	Ind.
WILLIAM H. PANCOAST, M. D.,	Philadelphia,	Pa.

## 1854.

FREDERICK ARTHUR, JR.,	Nantucket,	Mass.
JOHN W. CADBURY,	Philadelphia,	Pa.
JOHN B. GARRETT,	Philadelphia,	Pa.
DAVID SCULL, JR.,	Philadelphia,	Pa.

## 1855.

*SAMUEL BETTLE,	Philadelphia,	Pa.
JOHN R. HUBBARD, A. M.,	New Garden,	N. C.

## 1856.

BARTHOLOMEW W. BEESLEY,	Philadelphia,	Pa.
JOEL CADBURY, JR.,	Philadelphia,	Pa.
JONATHAN J COMFORT, M. D.,	Tecumseh,	Mich.
JAMES M. WALTON,	Philadelphia,	Pa.
EDWARD R. WOOD, A. M.,	Philadelphia,	Pa.

## 1857.

JESSE S. CHENEY, A. M.,	Thornbury,	Pa.
†CYRUS MENDENHALL,	Plainfield,	Ind.
STEPHEN WOOD,	Bedford,	N. Y.

\* Obiit 1859.

† Obiit 1858.

## 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.
THOMAS WISTAR, A. M.,	. . .	Philadelphia,	. . .	Pa.
ELLIS H. YARNALL,	. . .	Philadelphia,	. . .	Pa.

## 1859.

RICHARD W. CHASE,	. . .	Burlington,	. . .	N. J.
JAMES R. MAGEE,	. . .	Philadelphia,	. . .	Pa.
RICHARD C. PAXSON,	. . .	San Francisco,	. . .	Cal.
EDWARD RHOADS,	. . .	Philadelphia,	. . .	Pa.
EDWARD C. SAMPSON,	. . .	Manchester,	. . .	Me.
GEORGE SAMPSON,	. . .	Manchester,	. . .	Me.
ABRAM SHARPLES,	. . .	Ivy Mills,	. . .	Pa.
BENJAMIN H. SMITH,	. . .	Upper Darby,	. . .	Pa.

## 1860.

*LINDLEY M. CLARK,	. . .	Carthage,	. . .	Ind.
WILLIAM B. CORBIT,	. . .	Odessa,	. . .	Del.
WILLIAM M. CORLIES,	. . .	Philadelphia,	. . .	Pa.
CYRUS LINDLEY,	. . .	Monrovia,	. . .	Ind.
THEODORE H. MORRIS,	. . .	Philadelphia,	. . .	Pa.
FREDERICK W. MORRIS,	. . .	Philadelphia,	. . .	Pa.
RICHARD PANCOAST,	. . .	Philadelphia,	. . .	Pa.
JOHN W. PINKHAM,	. . .	North Vassalborough,	. . .	Me.
FRANCIS RICHARDSON,	. . .	Philadelphia,	. . .	Pa.
CLEMENT L. SMITH,	. . .	Upper Darby,	. . .	Pa.
JAMES TYSON,	. . .	Reading,	. . .	Pa.
SILAS A. UNDERHILL, LL. B.,	. . .	Brooklyn,	. . .	N. Y.

\* Obijt 1861.

## 1861.

EDWARD BETTLE,	. . . .	Philadelphia,	. Pa.
HENRY BETTLE,	. . . .	Philadelphia,	. Pa.
CHARLES BETTLE,	. . . .	Philadelphia,	. Pa.
WILLIAM B. BROOMALL,	. . . .	Media,	. Pa.
CHARLES H. JONES,	. . . .	Tamaqua,	. Pa.
THOMAS W. LAMB,	. . . .	Newby's Bridge,	. N. C.
WILLIAM N. POTTS,	. . . .	Philadelphia,	. Pa.
JEHU H. STUART,	. . . .	Westminster,	. N. C.
JOHN C. THOMAS,	. . . .	Baltimore,	. Md.

## 1862.

HENRY T. COATES,	. . . .	Philadelphia,	. Pa.
SAMUEL A. HADLEY,	. . . .	Osceola,	. Iowa.
GEORGE B. MELLOR,	. . . .	Philadelphia,	. Pa.
HORACE WILLIAMS,	. . . .	Newport,	. R. I.
FRANCIS A. WOOD,	. . . .	New York,	. N. Y.

Whole number of Graduates, . . . . 115.

## Honorary Degrees.

## 1858.

HUGH D. VAIL, A. M.,	. . . .	Plainfield,	. N. J.
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## 1859.

JOSEPH W. ALDRICH, A. M.,	. . . .	Philadelphia,	. Pa.
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## 1860.

JOHN G. WHITTIER, A. M.,	. . . .	Amesbury,	. Mass.
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**REMARKS**

UPON THE

**Course of Study & the Discipline.****MORAL, POLITICAL, AND NATURAL SCIENCE.**

In these Departments the method of instruction aims at making the lessons, whatever the subject, as nearly practical as possible. In Moral or Political Science, for example, the principle is illustrated and enforced by applying it to the practices and the wants of every day life. If the subject be Natural Science, the student is brought 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; together, over 5000. In Zoology less has been done; yet a beginning has been made, and many valuable specimens are already in the Cabinet. These collections, together with illustrations by diagrams, models, and maps, and occasional excursions in the neighbouring country, enable the teacher 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 accom-

panied 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 familiarizing 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.

### 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 geographical position—he is greatly assisted in acquiring, and especially in retaining, a knowledge of both.

### RHETORIC, LOGIC, AND PSYCHOLOGY.

The recitations in these studies are conducted by Professor Chase, and are continued through the first term of the Junior, and the second term of the Senior years. The effort is made so to present the different subjects, as to secure their full efficiency in stimulating thought, and training the mind to exactness and vigour. 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 annual exhibition, at the end of the first term of the Junior year, gives the several members of that class the opportunity of

original composition in Latin, Greek, or English, or of translation into Latin or Greek from some other language, and also of the public delivery of their compositions. Original exercises are also required of the graduating class at commencement.

#### 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.

#### MATHEMATICS, PHYSICS, AND 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. The students are allowed to perform experiments them-

selves, under the direction of the Professor. The well furnished Observatory presents peculiar advantages for the study of Astronomy.

#### DRAWING.

Instruction in Perspective and Mechanical Drawing is given by a competent teacher, and the best facilities are offered for the pursuit of this indispensable art.

#### 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. Gurney's Observations, and a treatise on Biblical Antiquities, are also studied.

#### 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, are the means most relied upon.







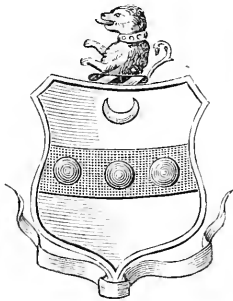
A  
CATALOGUE  
OF THE  
*Officers and Students*  
OF  
HAVERFORD COLLEGE,  
FOR THE  
ACADEMICAL YEAR  
1863-64.



PHILADELPHIA:  
E. KETTERLINUS, PRINTER, N. W. COR. ARCH AND FOURTH STS.  
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JOHN M. WHITALL.

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	THOMAS P. COPE.

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## Committee on Farm.

HUGH D VAIL, A. M.	HAYDOCK GARRIGUES.
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	THOMAS P. COPE.

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	PHILIP C. GARRETT.

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THOMAS KIMBER,	GEORGE HOWLAND, A. M.
JOHN M. WHITALL,	JAMES CAREY THOMAS, M. D.

## Committee on Investments.

DAVID SCULL,	BENJAMIN V. MARSH.
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## Faculty.

SAMUEL J. GUMMERE,

PRESIDENT.

PAUL SWIFT, M. D.,

PROFESSOR OF MORAL, POLITICAL, AND NATURAL SCIENCE.

THOMAS CHASE, A. M.,

PROFESSOR OF THE GREEK AND LATIN LANGUAGES AND LITERATURES.

SAMUEL J. GUMMERE,

PROFESSOR OF MATHEMATICS, PHYSICS, AND ASTRONOMY.

CLEMENT L. SMITH, A. M.,

ASSISTANT PROFESSOR OF CLASSICS AND MATHEMATICS.

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JOHN B. WILSON,

INSTRUCTOR IN DRAWING.





Under-Graduates.



## SENIOR CLASS.

NAMES.	RESIDENCE.
Angell, Franklin . . .	South Corinth, . . . N. Y.
Ashbridge, William . . .	West Whiteland, . . . Pa.
Coates, Edward H. . . .	Philadelphia, . . . Pa.
Cooper, Howard M. . . .	Camden, . . . . N. J.
Garrett, Albin . . . .	West Chester, . . . Pa.
Hall, Frank Stevens . . .	Casco, . . . . Me.
Longstreth, Morris . . .	Germantown, . . . Pa.
Pancoast, Albert . . . .	Philadelphia, . . . Pa.
Roberts, Charles . . . .	Philadelphia, . . . Pa.
Sampson, E. Pope . . . .	Manchester, . . . Me.
Scull, Edward Lawrence . .	Philadelphia, . . . Pa.
Wood, Randolph . . . .	Philadelphia, . . . Pa.

## JUNIOR CLASS.

NAMES.	RESIDENCE.
Bringhurst, John Richardson	Wilmington, . . . Del.
Brown, Edward Taylor . . .	Doylestown, . . . Pa.
Chase, James Anthony . . .	Philadelphia, . . . Pa.
Clapp, Samuel Hicks . . .	Philadelphia, . . . Pa.
Downing, Joseph Miller . . .	West Whiteland, . . . Pa.
Haviland, Arthur . . .	Brooklyn, . . . N. Y.
Nichols, David Holder . . .	East Vassalboro', . . . Me.
Pharo, Joseph John . . .	Tuckerton, . . . N. J.
Sharpless, Henry Williams	Philadelphia, . . . Pa.
Smith, Jr., George . . .	Upper Darby, . . . Pa.
Taber, Robert Barney . . .	New Bedford, . . . Mass.
Thomas, Allen Clapp . . .	Baltimore, . . . Md.
Vail, Benjamin Augustus . . .	Rahway, . . . N. J.
Wistar, Caleb Cresson . . .	Philadelphia, . . . Pa.

## SOPHOMORE CLASS.

NAMES.	RESIDENCE.
Brown, Harry Clay . . .	Doylestown, . . . Pa.
Carpenter, Samuel Preston	Salem, . . . N. J.
Cloud, Joseph Cooper . . .	Woodbury, . . . N. J.
Congdon, Samuel Hopkins	Providence, . . . R. I.
Elliott, Aaron Marshall . . .	Westminster, . . . N. C.
Gummere, Richard Morris	Germantown, . . . Pa.
Redman, Samuel Bispham	Haddonfield, . . . N. J.
Valentine, Benjamin Eyre	Salem, . . . Mass.

## FRESHMAN CLASS.

NAMES.	RESIDENCE.
Ashbridge, George . .	West Whiteland, . Pa.
Ashbridge, John . .	West Whiteland, . Pa.
Beck, Charles Bayard . .	Philadelphia, . . Pa.
Chase, Robert Howland . .	Union Springs, . . N.Y.
Coles, Isaac Woolston . .	Moorestown, . . N. J.
Collins, Samuel Craft . .	Trenton, . . N. J.
De Cou, Franklin . .	Yardville, . . N. J.
Dorsey, William Taggart	Baltimore, . . Md.

NAMES.	RESIDENCE.
Eshleman, B. Franklin . . .	Lancaster. . . Pa.
Haines, Zebedee . . .	Medford, . . . N. J.
Hopkins, Frank N. . . .	Baltimore, . . . Md.
Jones, Richard Mott . . .	Dirigo, . . . Me.
Levick, Lewis Jones . . .	Richland, . . . Pa.
Lippincott, Joseph Kay . . .	Woodstown, . . . N. J.
Morris, John Thompson . . .	Philadelphia, . . . Pa.
Parrish, Alfred . . . .	Philadelphia, . . . Pa.
Sharpless, Charles Williams	Philadelphia, . . . Pa.
Tatham. Henry Billington	Philadelphia, . . . Pa.

NAMES.	RESIDENCE.
Tomlinson, Benjamin Albert	Laurel Mills, . . . N. J.
Tomlinson, Ephraim . . .	Laurel Mills, . . . N. J.
Wistar, John . . . .	Salem, . . . . N. J.
Witmer, A. Exton, . . .	Paradise, . . . . Pa.
Wood, Walter, . . . .	Philadelphia, . . . Pa.
Woodward, Jr., Thomas .	New York, . . . . N.Y.
Coles, David Budd, . . .	Mount Holly, . . . N. J.
Jackson, Charles West .	Baltimore, . . . . Md.
Jackson, Walter . . . .	Baltimore, . . . . Md.



## Calendar.

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Winter Term, 1863-64, began . . . . .	9 Mo. 9th.
Winter Term, 1863-64, ends . . . . .	1 Mo. 27th.
Summer Term, 1864, begins . . . . .	2 Mo. 17th.
Summer Term, 1864; ends . . . . .	7 Mo. 13th.
Public Examination, 1864, 1 Mo. 25th, 26, and 7 Mo. 11th, 12th.	
Biennial Examinations, 1864, begin, . . . . .	5 Mo. 30th.
Oration before Loganian Society, 1864, . . . . .	1 Mo. 26th.
Junior Exhibition, 1864, . . . . .	1 Mo. 27th.
Address before Alumni, 1863, . . . . .	10th Mo. 24th.
Public Meeting of Loganian Society, 1864, . . . . .	7 Mo. 12th.
Commencement, 1864, . . . . .	7 Mo. 13th.
Examinations for Admission, 1864, 2 Mo. 16th, and 9 Mo. 13th.	
Winter Term, 1864-65, begins . . . . .	9 Mo. 14th.

**SUMMARY.**

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Seniors, . . . . .	12
Juniors, . . . . .	14
Sophomores, . . . . .	8
Freshmen, . . . . .	27
Total, . . . . .	<hr/> 61

# Course of Study.

## FRESHMAN CLASS.

### MATHEMATICS.

Geometry, . . . . .	<i>Euclid.</i>
Algebra, . . . . .	<i>Alsop.</i>
Plane Trigonometry, . . . . .	<i>Gummere.</i>

### GREEK AND LATIN.

Greek Testament, . . . . .	
The Anabasis of Xenophon, . . . . .	<i>Crosby.</i>
Greek Syntax, . . . . .	<i>Crosby or Hadley.</i>
Greek Prose Composition, . . . . .	<i>Arnold.</i>
Virgil, . . . . .	<i>Schmitz or Fricze.</i>
Latin Syntax and Prosody.	
Latin Prose Composition, . . . . .	<i>Arnold.</i>
Classical Geography and Antiquities. . . . .	<i>Kiepert and Smith.</i>

### ENGLISH.

Compositions.	
Universal History, . . . . .	<i>Weber.</i>
Chemistry, . . . . .	<i>Stoeckhardt.</i>
Geology commenced, . . . . .	<i>Hitchcock.</i>
Drawing.	

## SOPHOMORE CLASS.

## MATHEMATICS.

Surveying, . . . . .	<i>Gummere.</i>
Spherical Trigonometry, Conic Sections, and Spherical Projections, . . . . .	<i>Lewis.</i>
Astronomy, . . . . .	<i>Herschel.</i>

## GREEK AND LATIN.

The Iliad of Homer, . . . . .	<i>Felton or Owen.</i>
Herodotus.	
Greek Prose Composition, continued, . . . . .	<i>Arnold.</i>
Livy, . . . . .	<i>Lincoln.</i>
Cicero.	
Latin Prose Composition, continued, . . . . .	<i>Arnold.</i>

## ENGLISH.

Geology, continued, . . . . .	<i>Hitchcock.</i>
Physical Geography, . . . . .	<i>Guyot.</i>
Organic Chemistry, . . . . .	<i>Johnston.</i>
Evidences of Christianity, . . . . .	<i>Paley.</i>
Zoology, . . . . .	<i>By Lectures.</i>
Drawing.	

## JUNIOR CLASS.

## MATHEMATICS.

Astronomy, continued, . . . . .	<i>Herschel.</i>
Analytical Geometry. . . . .	<i>Davies.</i>
Differential and Integral Calculus. . . . .	<i>Davies.</i>

## GREEK AND LATIN.

The Prometheus of Æschylus, . . . . .	<i>Woolsey.</i>
Plato or Demosthenes.	
Thucydides, . . . . .	<i>Owen.</i>
Greek Composition.	
Horace, . . . . .	<i>Lincoln.</i>
The Germania and Agricola of Tacitus, . . . . .	<i>Tyler.</i>
Latin Exercises and Extemporalia.	
Greek Testament, . . . . .	<i>Tischendorf.</i>

## ENGLISH.

Rhetoric, . . . . .	<i>Whately.</i>
English, Past and Present, . . . . .	<i>Trench.</i>
Logic, } the Aristotelian system, . . . . .	<i>Whately.</i>
} the Hamiltonian system, . . . . .	<i>By Lectures.</i>
Political Economy, . . . . .	<i>Wayland.</i>
The Law of Nations, and American Law, . . . . .	<i>Kent.</i>
Themes.	
Drawing.	

## SENIOR CLASS.

### MATHEMATICS.

Analytical Mechanics, . . . . .	<i>Snell's Olmsted.</i>
Optics, . . . . .	<i>Snell's Olmsted.</i>
Practical Astronomy, . . . . .	<i>Loomis, with practice in the Observatory.</i>

### GREEK AND LATIN.

Thucydides, . . . . .	<i>Owen.</i>
The Antigone of Sophocles, . . . . .	<i>Woolsey.</i>
Greek Composition.	
The Captivi of Plautus.	
The Letters of Pliny the Younger.	
Cicero's Tusculan Disputations, and Somnium Scipionis, . . . . .	<i>Chase.</i>
Latin Themes and Extemporalia.	
Greek Testament, . . . . .	<i>Tischendorf.</i>
Modern Greek, . . . . .	<i>By Lectures.</i>

### ENGLISH.

Ethics, . . . . .	<i>Dymond.</i>
Analogy of Natural and Revealed Religion,	<i>Butler.</i>
Gurney's Observations.	
History of Modern Civilization, . . . . .	<i>Guizot.</i>
Psychology, . . . . .	<i>Haven.</i>
Forensics.	

## Admissions.

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 can be admitted to ADVANCED STANDING, when they can pass a Satisfactory Examination in all the previous studies of the course.

It is very important that the candidates should be thoroughly prepared, particularly in grammatical and elementary knowledge.

The number of applicants at the beginning of the present academical year having been considerably greater than the Institution could accommodate, it is very desirable that, hereafter, early application should be made.

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## Lectures.

The Courses of Lectures to the whole College for the winter of 1863-4 are as follows:—

<i>American Archaeology and Ethnology,</i>	PROFESSOR SWIFT.
<i>Physical Forces,</i> . . . . .	PRESIDENT GUMMERE.
<i>Greek Literature,</i> . . . . .	PROFESSOR CHASE.

## 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 Examination of each Class occupies about two weeks.

At the end of each Term there is a public oral Examination of all the Classes.



## Degree of Master of Arts.

GRADUATES of three years' standing can 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.

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## 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  $8\frac{1}{2}$  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 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.

The cost of the Telescope was \$2,100; of the Transit Instrument, \$1,000; the Sidereal Clock, \$300; the Magnetic Chronograph, \$300; the Sextant, \$150; the Dolland Prime-Vertical Transit, \$200; the Solar Clock, \$150; and \$2,500 was expended upon the building.

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## Library and Apparatus.

THE LIBRARY of the College contains about 3,300 volumes; that of the Loganian Society about 1,400; and that of the President, 1,300: whole number of books in the Libraries, 6,000.

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 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.

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## 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 1,400 volumes. and cabinets of conchology, geology, natural history, medals, and coins. A large and well-furnished GYMNASIUM, also, is under its direction.

THE ATHENÆUM and EVERETT are literary societies of the students.

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## 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.

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.

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## Situation of the College.

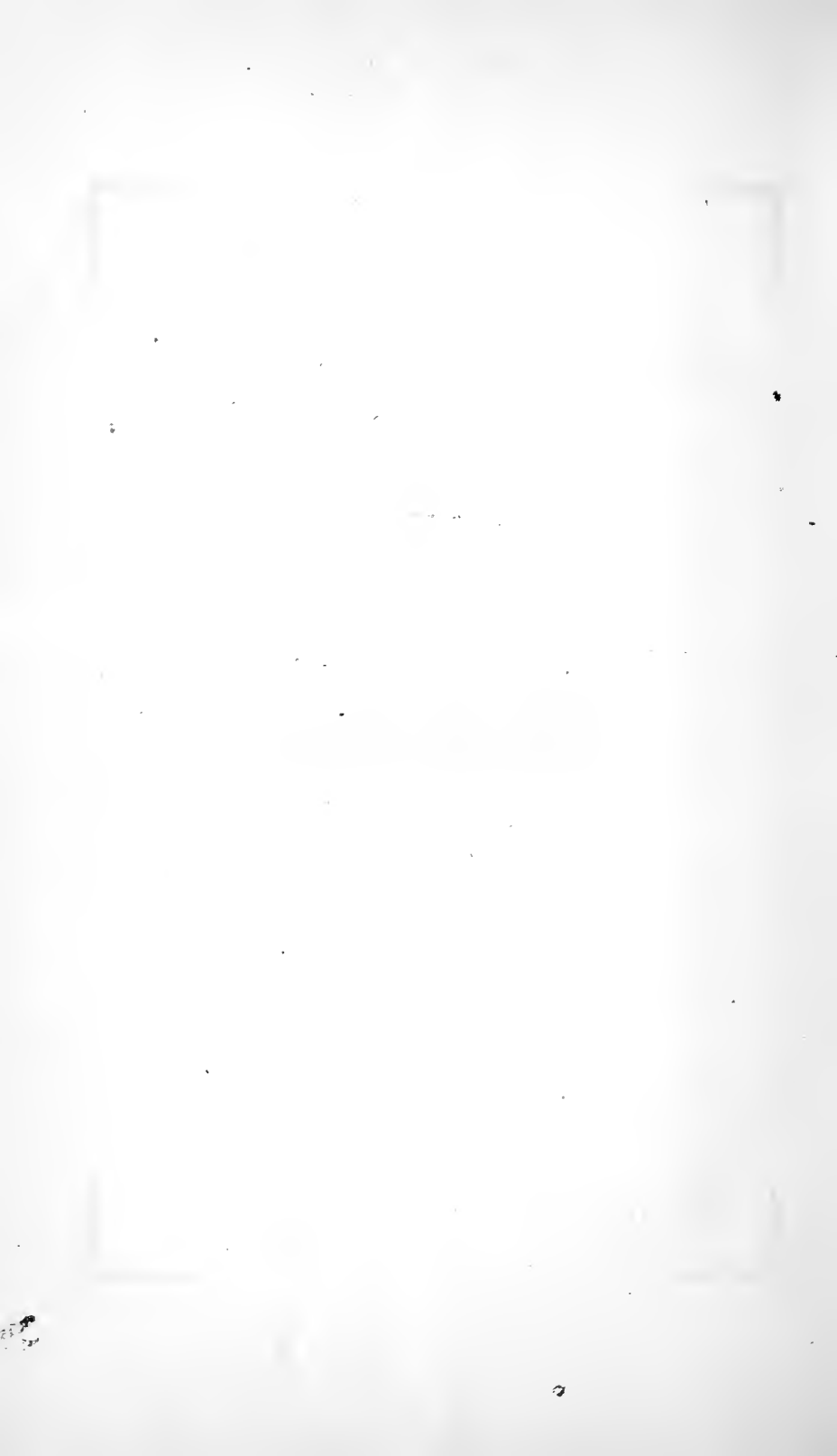
The College has a remarkably pleasant and healthy location, in the township of Haverford, on the Pennsylvania Rail-road, nine miles west of Philadelphia. The buildings are situated on a lawn of fifty acres, tastefully laid out, and, in the number and variety of its trees and shrubbery, perhaps unsurpassed 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 entrusted to the Matron, ELIZABETH B. HOPKINS.

## Commencement, Terms, Tuition, &c.

COMMENCEMENT is on the second Fourth-day in the Seventh month of each year. The JUNIOR EXHIBITION 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 \$300 per annum, payable as follows:—\$100 at the beginning of each Term, and \$50 at the middle of it.





Graduates.

## 1836.

THOMAS F. COCK, M. D., . . .	New York, . . .	N. Y.
JOSEPH WALTON, . . . . .	Philadelphia, . . .	Pa.

## 1837.

WILLIAM C. LONGSTRETH, . . .	Philadelphia, . . .	Pa.
DAVID C. MURRAY, . . . . .	New York, . . . . .	N. Y.
LINDLEY MURRAY, . . . . .	New York, . . . . .	N. Y.
BENJAMIN V. MARSH, . . . . .	Rahway, . . . . .	N. J.
JOSEPH L. PENNOCK, . . . . .	Philadelphia, . . .	Pa.
BOBERT B. PARSONS, . . . . .	Flushing, . . . . .	N. Y.
CHARLES L. SHARPLESS, . . . .	Philadelphia, . . .	Pa.
LLOYD P. SMITH, . . . . .	Philadelphia, . . .	Pa.
B. WYATT WISTAR, . . . . .	Philadelphia, . . .	Pa.

## 1838.

JAMES V. EMLLEN, M. D., . . . .	Philadelphia, . . .	Pa.
JOHN ELLIOTT, . . . . .	Philadelphia, . . .	Pa.

## 1839.

FREDERICK COLLINS, . . . . .	Philadelphia, . . .	Pa.
THOMAS P. COPE, . . . . .	Philadelphia, . . .	Pa.
HENRY HARTSHORNE, A. M., M. D.,	Philadelphia, . . .	Pa.
NEREUS MENDENHALL, M. D., . .	Guilford Co., . . .	N. C.
RICHARD RANDOLPH, JR., M. D.,	Philadelphia, . . .	Pa.
CHARLES TABER, . . . . .	New Bedford, . . .	Mass.

## 1840.

JOSEPH HOWELL, . . . . .	Philadelphia, . . .	Pa.
ANTHONY M. KIMBER, . . . . .	Philadelphia, . . .	Pa.
HENRY H. G. SHARPLESS, . . . .	Philadelphia, . . .	Pa.
JOHN R. WINSLOW, M. D., . . . .	Hertford, . . . . .	N. C.

## 1841.

*RICHARD H. LAWRENCE, . . . . .	New York, . . . . .	N. Y.
JAMES P. PEBOT, . . . . .	Philadelphia, . . .	Pa.
ELIAS A. WHITE, . . . . .	North Carolina, . .	N. C.

\*Obit.



## 1842.

ROBERT BOWNE, . . . .	New York, . . . .	N. Y.
RICHARD CADBURY, . . . .	Philadelphia, . . . .	Pa.
WILLIAM S. HILLES, . . . .	Wilmington, . . . .	Del.
THOMAS KIMBER, JR. . . . .	Philadelphia, . . . .	Pa.
JAMES J. LEVICK, M. D. . . . .	Philadelphia, . . . .	Pa.
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.

ROBERT B. HOWLAND, . . . .	New Bedford, . . . .	Mass.
FRANCIS WHITE, . . . . .	North Carolina, . . . .	N. C.
WILLIAM D. STROUD, M. D., . . . .	Philadelphia, . . . .	Pa.

## 1844.

EVAN T. ELLIS, . . . . .	Philadelphia, . . . .	Pa.
ROBERT B. HAINES, . . . . .	Germantown, . . . .	Pa.
ISAAC HARTSHORNE, . . . . .	Philadelphia, . . . .	Pa.

## 1845.

EDMUND CRENSHAW, . . . . .	Richmond, . . . . .	Va.
*ROBERT PEARSALL, . . . . .	Philadelphia, . . . .	Pa.

## 1849.

ALBERT K. SMILEY, A. M., . . . .	Vassalborough, . . . .	Me.
ALFRED H. SMILEY, A. M., . . . .	Vassalborough, . . . .	Me.

## 1851.

JOSEPH L. BAILEY, . . . . .	Berks Co., . . . . .	Pa.
PHILIP C. GARRETT, . . . . .	Philadelphia, . . . .	Pa.
THOMAS J. LEVICK, . . . . .	Philadelphia, . . . .	Pa.
FRANKLIN E. PAIGE, A. M., . . . .	Weare, . . . . .	N. H.
ZACCHEUS TEST, M. D., . . . . .	Richmond, . . . . .	Ind.
JAMES C. THOMAS, M. D., . . . .	Baltimore, . . . . .	Md.
RICHARD WOOD, . . . . .	Philadelphia, . . . .	Pa.

\*Obit.

## 1852.

DOUGAN CLARK, M. D., . . .	New Garden, . . .	N. C.
LEWIS N. HOPKINS, . . .	Baltimore, . . .	Md.
WILLIAM L. KINSMAN, . . .	Salem, . . .	Mass.
WILLIAM E. NEWHALL, . . .	Philadelphia, . . .	Pa.
JAMES WHITALL, . . .	Philadelphia, . . .	Pa.

## 1853.

WILLIAM B. MORGAN, A. M., . . .	Raysville, . . .	Ind.
WILLIAM H. PANCOAST, M. D., . . .	Philadelphia, . . .	Pa.

## 1854.

FREDERICK ARTHUR, JR., . . .	Nantucket, . . .	Mass.
JOHN W. CADBURY, . . .	Philadelphia, . . .	Pa.
JOHN B. GARRETT, . . .	Philadelphia, . . .	Pa.
DAVID SCULL, JR., . . .	Philadelphia, . . .	Pa.

## 1855.

*SAMUEL BETTLE, . . .	Philadelphia, . . .	Pa.
JOHN R. HUBBARD, A. M., . . .	New Garden, . . .	N. C.

## 1856.

BARTHOLOMEW W. BEESLEY, . . .	Philadelphia, . . .	Pa.
JOEL CADBURY, JR., . . .	Philadelphia, . . .	Pa.
JONATHAN J. COMFORT, M. D., . . .	Tecumseh, . . .	Mich.
JAMES M. WALTON, . . .	Philadelphia, . . .	Pa.
EDWARD R. WOOD, A. M., . . .	Philadelphia, . . .	Pa.

## 1857.

JESSE S. CHEYNEY, A. M., . . .	Thornbury, . . .	Pa.
†CYRUS MENDENHALL, . . .	Plainfield, . . .	Ind.
STEPHEN WOOD, . . .	Bedford, . . .	N. Y.

\* Obiit 1859.

† Obiit 1858.

## 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.
THOMAS WISTAR, A. M., M. D., .	Philadelphia, . . . .	Pa.
ELLIS H. YARNALL, . . . .	Philadelphia, . . . .	Pa.

## 1859.

*RICHARD W. CHASE, . . . .	Burlington, . . . .	N. J.
JAMES R. MAGEE, . . . .	Philadelphia, . . . .	Pa.
RICHARD C. PAXSON, . . . .	San Francisco, . . . .	Cal.
EDWARD RHOADS, M. D., . . . .	Philadelphia, . . . .	Pa.
EDWARD C. SAMPSON, . . . .	Manchester, . . . .	Me.
GEORGE SAMPSON, . . . .	Manchester, . . . .	Me.
ABRAM SHARPLES, . . . .	Ivy Mills, . . . .	Pa.
BENJAMIN H. SMITH, . . . .	Upper Darby, . . . .	Pa.

## 1860.

†LINDLEY M. CLARK, . . . .	Carthage, . . . .	Ind.
WILLIAM B. CORBIT, M. D., . . . .	Odessa, . . . .	Del.
WILLIAM M. CORLIES, . . . .	Philadelphia, . . . .	Pa.
CYRUS LINDLEY, . . . .	Monrovia, . . . .	Ind.
THEODORE H. MORRIS, . . . .	Philadelphia, . . . .	Pa.
FREDERICK W. MORRIS, . . . .	Philadelphia, . . . .	Pa.
RICHARD PANCOAST, . . . .	Philadelphia, . . . .	Pa.
JOHN W. PINKHAM, . . . .	North Vassalborough, Me.	
FRANCIS RICHARDSON, . . . .	Philadelphia, . . . .	Pa.
CLEMENT L. SMITH, A. M., . . . .	Upper Darby, . . . .	Pa.
JAMES TYSON, M. D., . . . .	Reading, . . . .	Pa.
SILAS A. UNDERHILL, LL. B., . . . .	Brooklyn, . . . .	N. Y.

\*Obiit 1862.

†Obiit 1861.

## 1861.

EDWARD BETTLE, . . . .	Philadelphia, . . . .	Pa.
HENRY BETTLE, . . . .	Philadelphia, . . . .	Pa.
CHARLES BETTLE, . . . .	Philadelphia, . . . .	Pa.
WILLIAM B. BROOMALL, . . . .	Media, . . . .	Pa.
CHARLES H. JONES, . . . .	Tamaqua, . . . .	Pa.
THOMAS W. LAMB, . . . .	Newby's Bridge, . . . .	N. C.
WILLIAM N. POTTS, . . . .	Philadelphia, . . . .	Pa.
JEHU H. STUART, . . . .	Westminster, . . . .	N. C.
JOHN C. THOMAS, . . . .	Baltimore, . . . .	Md.

## 1862.

HENRY T. COATES, . . . .	Philadelphia, . . . .	Pa.
SAMUEL A. HADLEY, . . . .	Osceola, . . . .	Iowa.
GEORGE B. MELLOR, . . . .	Philadelphia, . . . .	Pa.
HORACE WILLIAMS, . . . .	Newport, . . . .	R. I.
F. AUGUSTUS WOOD, . . . .	New York, . . . .	N. Y.

## 1863.

THOMAS J. BATTEY, . . . .	Burrillville, . . . .	R. I.
GEORGE M. COATES, JR., . . . .	Philadelphia, . . . .	Pa.
WILLIAM M. COATES, . . . .	Philadelphia, . . . .	Pa.
RICHARD T. JONES, . . . .	Philadelphia, . . . .	Pa.
WILLIAM H. MORRIS, . . . .	Philadelphia, . . . .	Pa.
JOSEPH G. PINKHAM, . . . .	Manchester, . . . .	Me.

Whole number of Graduates, . . . . . 121

## Honorary Degrees.

## 1858.

HUGH D. VAIL, A. M., . . . .	Plainfield, . . . .	N. J.
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## 1859.

JOSEPH W. ALDRICH, A. M., . . . .	Philadelphia, . . . .	Pa.
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## 1860.

JOHN G. WHITTIER, A. M., . . . .	Amesbury, . . . .	Mass.
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**REMARKS**

UPON THE

**Course of Study & the Discipline.****MORAL, POLITICAL, AND NATURAL SCIENCE.**

In these Departments the method of instruction aims at making the lessons, whatever the subject, as nearly practical as possible. In Moral or Political Science, for example, the principle is illustrated and enforced by applying it to the practices and the wants of every day life. If the subject be Natural Science, the student is brought 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; together, over 5000. In Zoology less has been done; yet a beginning has been made, and many valuable specimens are already in the Cabinet. These collections, together with illustrations by diagrams, models, and maps, and occasional excursions in the neighbouring country, enable the Teacher 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 familiarizing 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.

#### 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 geographical position—he is greatly assisted in acquiring, and especially in retaining, a knowledge of both.

#### RHETORIC, LOGIC, AND PSYCHOLOGY.

The recitations in these studies are conducted by Professor Chase, and are continued through the first term of the Junior, and the second term of the Senior years. The effort is made so to present the different subjects, as to secure their full efficiency in stimulating thought, and training the mind to exactness and vigour. 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 annual exhibition, at the end of the first term of the Junior year, gives the several members of that class the opportunity of original composition in Latin, Greek, or English, or of translation into Latin or Greek from some other language, and also of the public delivery of their compositions. Original exercises are also required of the graduating class at commencement.

#### 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.

#### MATHEMATICS, PHYSICS, AND 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. The students are allowed to perform experiments themselves, under the direction of the Professor. The well furnished Observatory presents peculiar advantages for the study of Astronomy.

#### DRAWING.

Instruction in Perspective and Mechanical Drawing is given by a competent teacher, and the best facilities are offered for the pursuit of this indispensable art.

#### 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.

#### 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, are the means most relied upon.

















