

SWARTHMORE COLLEGE,

1879-80.

1880-81.

1880	1st Day.	2d Day.	3d Day.	4th Day.	5th Day.	6th Day.	7th Day.	1880	1st Day.	2d Day.	3d Day.	4th Day.	5th Day.	6th Day.	7th Day.	1881	1st Day.	2d Day.	3d Day.	4th Day.	5th Day.	6th Day.	7th Day.
1st MONTH.	...	...	...	1	2	3	...	7th MONTH.	...	...	...	...	1	2	3	1st MONTH.	...	...	...	...	...	...	1
	4	5	6	7	8	9	10		4	5	6	7	8	9	10		2	3	4	5	6	7	8
	11	12	13	14	15	16	17		11	12	13	14	15	16	17		9	10	11	12	13	14	15
	18	19	20	21	22	23	24		18	19	20	21	22	23	24		16	17	18	19	20	21	22
	25	26	27	28	29	30	31		25	26	27	28	29	30	31		23	24	25	26	27	28	29
	...	...	...	...	...	...	...		...	...	...	...	...	...	...		30	31	...	...	...	...	...
2d MONTH.	1	2	3	4	5	6	7	8th MONTH.	1	2	3	4	5	6	7	2d MONTH.	...	...	1	2	3	4	5
	8	9	10	11	12	13	14		8	9	10	11	12	13	14		...	...	6	7	8	9	10
	15	16	17	18	19	20	21		15	16	17	18	19	20	21		13	14	15	16	17	18	19
	22	23	24	25	26	27	28		22	23	24	25	26	27	28		20	21	22	23	24	25	26
	29	...	...	...	...	...	...		29	30	31	...	...	...	...		27	28	...	...	...	...	...
3d MONTH.	...	1	2	3	4	5	6	9th MONTH.	...	...	...	1	2	3	4	3d MONTH.	...	...	1	2	3	4	5
	7	8	9	10	11	12	13		5	6	7	8	9	10	11		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		12	13	14	15	16	17	18		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		19	20	21	22	23	24	25		20	21	22	23	24	25	26
	28	29	30	31	...	...	...		26	27	28	29	30	...	...		27	28	29	30	31	...	...
	...	...	...	...	1	2	3		...	...	...	...	...	1	2		...	...	...	...	...	...	...
4th MONTH.	4	5	6	7	8	9	10	10th MONTH.	3	4	5	6	7	8	9	4th MONTH.	3	4	5	6	7	8	9
	11	12	13	14	15	16	17		10	11	12	13	14	15	16		10	11	12	13	14	15	16
	18	19	20	21	22	23	24		17	18	19	20	21	22	23		17	18	19	20	21	22	23
	25	26	27	28	29	30	...		24	25	26	27	28	29	30		24	25	26	27	28	29	30
	...	...	...	...	...	...	1		31	...	...	...	...	...	...		...	...	...	...	...	...	...
5th MONTH.	...	2	3	4	5	6	7	11th MONTH.	...	1	2	3	4	5	6	5th MONTH.	...	...	1	2	3	4	5
	9	10	11	12	13	14	15		7	8	9	10	11	12	13		8	9	10	11	12	13	14
	16	17	18	19	20	21	22		14	15	16	17	18	19	20		15	16	17	18	19	20	21
	23	24	25	26	27	28	29		21	22	23	24	25	26	27		22	23	24	25	26	27	28
	30	31	...	...	...	...	...		28	29	30	...	...	...	...		29	30	31	...	...	...	...
	...	...	1	2	3	4	5		...	...	...	1	2	3	4		...	...	...	...	...	...	...
6th MONTH.	6	7	8	9	10	11	12	12th MONTH.	5	6	7	8	9	10	11	6th MONTH.	5	6	7	8	9	10	11
	13	14	15	16	17	18	19		12	13	14	15	16	17	18		12	13	14	15	16	17	18
	20	21	22	23	24	25	26		19	20	21	22	23	24	25		19	20	21	22	23	24	25
	27	28	29	30	...	...	...		26	27	28	29	30	31	...		26	27	28	29	30	...	...

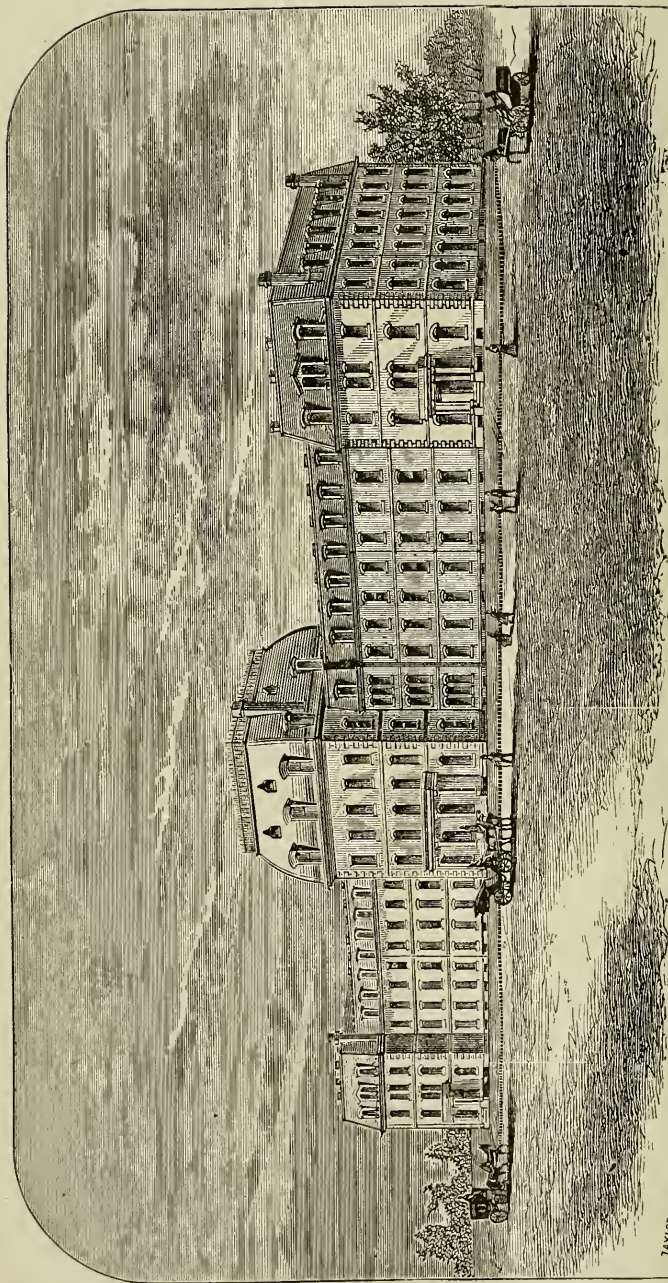


Author:  
Swarthmore  
college.

Title:  
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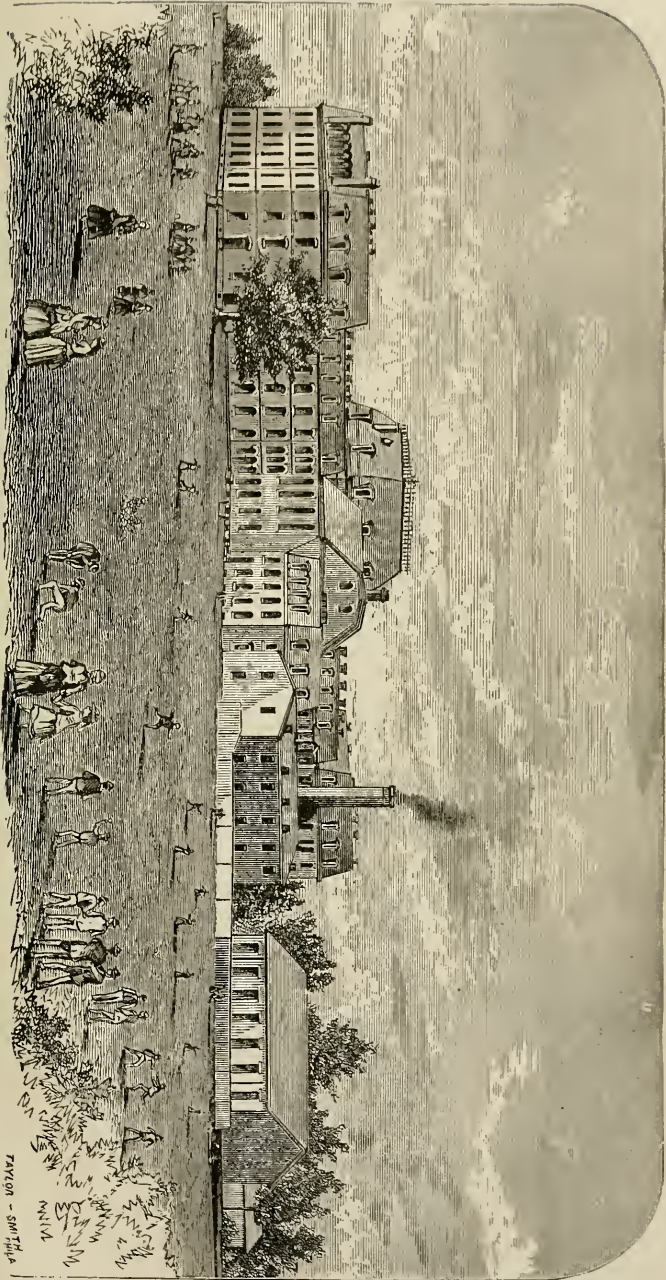
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SWARTHMORE COLLEGE, DELAWARE COUNTY, PA.

(FRONT VIEW.)



SWARTHMORE COLLEGE, DELAWARE COUNTY, PA.

(REAR VIEW.)



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ELEVENTH  
ANNUAL CATALOGUE  
OF  
SWARTHMORE COLLEGE,

*SWARTHMORE, PA.*

1879-80.

WITH MINUTES OF THE  
SIXTEENTH ANNUAL MEETING

OF THE  
STOCKHOLDERS.

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PRESS OF  
FRIENDS' BOOK ASSOCIATION.  
706 Arch Street, Philadelphia.

# CALENDAR.

1879-80.

1879.	Ninth month 9th,	Third-day,	Meeting of the Board of Managers.
"	Ninth month 9th,	Third-day,	Examinations for admission begin.
"	Ninth month 11th,	Fifth-day,	Examinations for admission completed, and old students return.
"	Ninth month 12th,	Sixth-day,	Regular Exercises begin.
"	Twelfth month 1st,	Second-day,	Meeting of the Board of Managers.
"	Twelfth month 2d,	Third-day,	ANNUAL MEETING OF STOCKHOLDERS.
"	Twelfth month 2d,	Third-day,	Meeting of the Board of Managers.
"	Twelfth month 23d,	Third-day,	Holidays begin.
1880.	First month 5th,	Second-day,	Students return for roll call at 8 P. M.
"	First month 6th,	Third-day,	Regular Exercises begin.
"	Second month 10th,	Third-day,	Meeting of the Board of Managers.
"	Fifth month 1st,	Seventh-day,	Junior Day.
"	Fifth month 8th,	Seventh-day,	Spring Holidays begin.
"	Fifth month 17th,	Second-day,	Students return.
"	Fifth month 18th,	Third-day,	Senior Examinations begin.
"	Fifth month 25th,	Third-day,	Senior Examinations completed, the results announced, and parts for Commencement assigned.
"	Sixth month 7th,	Second-day,	Annual Examinations begin.
"	Sixth month 14th,	Second-day,	Annual Examinations completed, and the result announced.
"	Sixth month 14th,	Second-day,	Meeting of the Board of Managers, and the Annual Business Meeting of the Alumni Association in the evening,
"	Sixth month 15th,	Third-day,	COMMENCEMENT.
"	Sixth month 16th,	Fourth-day,	Summer Vacation begins.
"	Ninth month 14th,	Third-day,	Meeting of the Board of Managers.
"	Ninth month 14th,	Third-day,	Examinations for admission begin.
"	Ninth month 16th,	Fifth-day,	Examinations for admission completed, and old students return.
"	Ninth month 17th,	Sixth-day,	Regular Exercises begin.
"	Twelfth month 6th,	Second-day,	Meeting of the Board of Managers.
"	Twelfth month 7th,	Third-day,	ANNUAL MEETING OF STOCKHOLDERS.
"	Twelfth month 7th,	Third-day,	Meeting of the Board of Managers.
"	Twelfth month 22d,	Fourth-day,	Holidays begin at noon.
1881.	First month 3rd,	Second-day,	Students return for roll call at 8 P. M.
"	First month 4th,	Third-day,	Regular Exercises begin.



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HASLAM, ELIZABETH . . . . .	Atglen, Pa.

†Pursuing a partial course.

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†Pursuing a partial course.

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JONES, WILLIAM P. . . . .	Conshohocken, Pa.
†KETCHAM, GEORGE H. . . . .	Toledo, Ohio.

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†Pursuing a partial course.

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KNOX, WILLIAM . . . . .	Washington, D. C.
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## SUMMARY.

## CLASSICAL DEPARTMENT.

Senior Class . . . . .	9
Junior Class . . . . .	5
Sophomore Class . . . . .	23
Freshman Class . . . . .	21
	—
Total . . . . .	58

## MODERN CLASSICAL DEPARTMENT.

Senior Class . . . . .	
Junior Class . . . . .	10
Sophomore Class . . . . .	4
Freshman Class . . . . .	12
	—
Total . . . . .	26

## SCIENTIFIC DEPARTMENT.

Senior Class . . . . .	5
Junior Class . . . . .	5
Sophomore Class . . . . .	9
Freshman Class . . . . .	25
	—
Total . . . . .	44

Classical Department . . . . .	58
Modern Classical Department . . . . .	26
Scientific Department . . . . .	44
	—
Total . . . . .	128

## Conditions of Admission and Courses of Study.

Every applicant for admission must submit to the President satisfactory testimonials of good moral character; and students coming from another college must present certificates of honorable dismissal from the institution left.

Examinations for admission will be held on Third, Fourth and Fifth-days, the 14th, 15th and 16th of Ninth month, 1880. Candidates must present themselves at the College at three o'clock P. M., on Third-day, the 14th of Ninth month.

To secure places, applications for admission for the next scholastic year should be made, as early as possible, by letter to the President.

Candidates for advanced standing must first be examined for admission to the Freshman Class; then in all the *required* studies already gone over by the class for which they offer themselves, and in as many *elective* studies as they would have pursued if they had entered at the beginning of the course.

Especial attention is called to the importance of a thorough preparation in the studies required for admission. The want of this is a serious source of embarrassment to future progress, and is rarely repaired by subsequent study. The work is arranged for those only who enter the classes thoroughly prepared.

Students are not considered as regular members of the College until, after a residence of at least four months, they have been admitted to matriculation on satisfactory evidence of good moral character. Before this they are students on probation.

The attention of parents and guardians is called to the arrangement of the Courses of Study. In the Preparatory School and in the lower College classes most studies are required, while in the higher College classes many are elective. The pursuit of the regular course, whether students are candidates for degrees or not, is especially recommended before reaching the Junior year.

The studies of each class in any course are among the electives for students of *that class* in any other course, if they are prepared to pursue them, and pass the necessary preliminary examination.

## POST GRADUATE COURSE.

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Facilities are offered to those who desire to continue their studies after graduation.

## CLASSICAL COURSE.

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### *CONDITIONS OF ADMISSION.*

Candidates for admission to the Freshman class will be examined on the following subjects and text-books, or their equivalents:

**Latin.**—Harkness's Grammar; Harkness's Reader; Harkness's Composition, first thirty lessons; Cæsar's Gallic War, first three books; and Virgil's *Æneid*, first two books.

**French.**—Magill and Paulin's First Lessons; Magill's Grammar; Magill's Introductory Reader, or an equivalent amount of German.

**Mathematics.**—Arithmetic; Algebra, to Equations of the Second Degree; Davies's Legendre's Geometry, first three books.

**English.**—English Grammar and Spelling; Modern Geography, Descriptive and Physical; Ancient Geography; Physics (Rolfé and Gillet's Natural Philosophy); History of the United States; History of England; History of Greece.

### MODERN CLASSICAL COURSE.

The MODERN CLASSICAL COURSE, for completing which the degree of BACHELOR OF LITERATURE is conferred, is the same as the following, except that a fuller course in Modern Languages and in Early English is substituted for the Ancient Languages.

Students may pursue this course and omit, if desired, any foreign language; in which case certificates will be given on the completion of the course.

## COURSE OF STUDY.

## FRESHMAN CLASS.

	<i>No. of Ex. per week.</i>
<b>Latin.</b> —Harkness's Grammar and Latin Prose Composition; Virgil's <i>Æneid</i> , continued; Livy . . . . .	4
<b>French.</b> —Magill's Grammar; Fénelon's <i>Télémaque</i> . . . . .	2
<b>German.</b> —Otto's Conversation Grammar; <i>Der Neffe als Onkel</i> . . . . .	3
<b>Mathematics.</b> —Olney's Algebra, through Quadratic Equations; Davies's Legendre's Geometry, Books IV.—VI . . . . .	3
<b>History.</b> —Liddell's History of Rome; Schmitz's Manual of An- cient History, and Lectures . . . . .	4
<b>English Literature.</b> —Lectures on English and General Litera- ture (once a week first half-year) . . . . .	½
<b>Botany.</b> —(twice a week second half-year) . . . . .	1
<b>Natural History.</b> —Zoology; Comparative Anatomy; Compara- tive Physiology (Lectures) . . . . .	1
<b>Elocution.</b> —Murdock and Russell's Vocal Culture; Coates's Speaker; Selections from Classical English Authors; De- clamations . . . . .	1
<b>Rhetoric and Composition.</b> —Quackenbos's Rhetoric; Essays . . . . .	1

## ELECTIVE STUDIES.

<b>Greek.</b> —Goodwin's Grammar; Xenophon's <i>Anabasis</i> . . . . .	4
* <b>Early English</b> . . . . .	2
<b>Free-Hand Drawing</b> . . . . .	2
<b>Mechanical Drawing</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

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\*Required instead of Latin in the Modern Classical Course.



## SOPHOMORE CLASS.

	<i>No. of Ex. per week.</i>
<b>Latin.</b> —Harkness's Grammar and Latin Prose Composition; Cicero's Orations; Livy, continued . . . . .	4
<b>French.</b> —Magill's Grammar; Magill's Prose and Poetry . . . . .	2
<b>German.</b> —Otto's Conversation Grammar; Wilhelmi's Einer muss heirathen; Lessing's Minna von Barnhelm . . . . .	3
<b>Mathematics.</b> —Chauvenet's Plane Trigonometry; Davies's Le- gendre's Geometry, Books VII.—IX . . . . .	2
<b>English Literature.</b> —Lectures on English and General Litera- ture (once a week first half-year) . . . . .	1½
<b>Physics.</b> —(Four times a week first half-year) . . . . .	2
<b>Chemistry.</b> —(Four times a week second half-year) . . . . .	2
<b>Natural History.</b> —Zoology: Comparative Anatomy; Compara- tive Physiology (Lectures); Mineralogy, Geology, and Botany (once a week last half-year) . . . . .	1½
<b>Elocution.</b> —Selections from Classical English Authors; Decla- mations, Original and Selected . . . . .	1
<b>Rhetoric and Composition.</b> —Hart's Rhetoric; Essays . . . . .	1
<b>Lectures on History</b> . . . . .	1

## ELECTIVE STUDIES.

<b>Greek.</b> —Goodwin's Grammar; Xenophon's Anabasis, Homer's Iliad, Greek Prose Composition; Goodwin's Greek Moods and Tenses . . . . .	4
<b>*History.</b> —Student's Gibbon; Student's History of France; History of England . . . . .	2
† <b>Early English</b> . . . . .	2
<b>Descriptive Geometry.</b> —(Four times a week first half-year) . . . . .	2
<b>Surveying.</b> —(Four times a week second half-year) . . . . .	2
<b>Mechanical Drawing</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

\*Required in the Modern Classical Course.

†Required instead of Latin in the Modern Classical Course.

## JUNIOR CLASS.

	<i>No. of Ex. per week.</i>
<b>Latin.</b> —Horace's Odes ; Cicero's De Claris Oratoribus, De Senecute, and De Amicitia . . . . .	4
<b>Political Economy.</b> —Principles of Political Economy, Mill ; Carey (Lectures) . . . . .	2
<b>Natural History.</b> —Lectures on Mineralogy, Geology and Botany (once a week last half-year) . . . . .	½
<b>Elocution.</b> —Declamations, Original and Selected . . . . .	1
<b>Rhetoric and Composition.</b> —Blair's Rhetoric ; Essays . . . . .	1
<b>Lectures on History</b> . . . . .	1

## ELECTIVE STUDIES.

(Seven periods per week to be chosen.)

* <b>French.</b> —Magill's Grammar ; Bôcher's College Series ; Dumas's Napoleon, etc. . . . .	4
* <b>German.</b> —Schiller's Maria Stuart and William Tell ; Eichen- dorf's Aus dem Leben eines Taugenichts ; Exercises in writing German . . . . .	3
<b>Greek.</b> —Selections from Greek Historians ; Plato's Apology and Crito . . . . .	4
<b>Mathematics.</b> —Chauvenet's Spherical Trigonometry ; Olney's Higher Algebra . . . . .	4
† <b>Early English</b> . . . . .	2
<b>Mechanics</b> . . . . .	2
<b>Engineering Drawing</b> . . . . .	4
<b>Chemistry.</b> —Laboratory Practice . . . . .	—
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

\*Required in the Modern Classical Course.

†Required instead of Latin in the Modern Classical Course.

## SENIOR CLASS.

	<i>No. of Ex. per week.</i>
<b>Mental and Moral Philosophy.</b> —Lectures . . . . .	1
<b>Latin.</b> —Horace's Satires and Epistles; Tacitus, Agricola, and Germania; Selections from Juvenal . . . . .	4
<b>Natural History.</b> —Lectures on Mineralogy, Geology, and Botany (once a week last half-year) . . . . .	½
<b>Elocution.</b> —Original Orations . . . . .	1
<b>Rhetoric and Composition.</b> —Essays . . . . .	1
<b>Lectures on History</b> . . . . .	1

## ELECTIVE STUDIES.

*(Twelve periods per week to be chosen.)*

<b>*French.</b> —Magill's Grammar; Corneille's Cid; Racine's Athalie; Molière's Misanthrope, etc. . . . .	4
<b>*German.</b> —Goethe's Dramas; German Prose; Exercises in writ- ing German; History of German Literature (Lectures) . . . . .	4
<b>Greek.</b> —Sophocles's Antigone; Euripides's Alcestis; Demos- thenes's De Corona; History of Greek Literature (Lectures) . . . . .	4
<b>Mathematics.</b> —Olney's Analytical Geometry; Olney's Differ- ential and Integral Calculus . . . . .	4
<b>Chemistry.</b> —Experimental work in the Laboratory . . . . .	4
<b>Astronomy.</b> —Loomis's Astronomy; Chauvenet's Spherical and Practical Astronomy . . . . .	4
† <b>Early English</b> . . . . .	2
<b>Engineering</b> . . . . .	2
<b>Mechanics</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

\*Required in the Modern Classical Course.

†Required instead of Latin in the Modern Classical Course.

# SCIENTIFIC COURSE.\*

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## CONDITIONS OF ADMISSION.

The conditions of Admission are the same as for the Classical Course, except that Latin is not required, although a sufficient knowledge of the construction to read easy Latin Prose is earnestly recommended. It is also very desirable that all applicants for admission should have had at least one year's instruction in Free-hand Linear Drawing.

## COURSE OF STUDY.

In the Junior and Senior years students may elect either all Chemical or all Engineering studies, or from both departments. While full courses in professional studies are thus provided for, it will be seen that care has been taken to secure *general culture*, and not to make of students of this course *merely* chemists or engineers.

## CHEMICAL DEPARTMENT.

The work in this department occupies four years, and is intended to prepare students to fill positions as teachers or analytical chemists, and to provide such a general knowledge of chemical science, and its applications to the arts, for those who wish to take up the special problems of technical chemistry, as will afford a good basis for their subsequent investigations.

The department is also open to those students of maturer age whose time is limited, and who wish to prepare themselves for positions requiring a knowledge of Chemistry.

A partial course in Medical Chemistry has been arranged as an Elective, for the benefit of those who intend to study medicine or pharmacy after graduation.

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\*For graduation in this course not less than two years of French and two of German will be required.

The Laboratory has been fitted up in the most approved manner to accommodate twenty-six students at a time, each desk being provided with running water, gas, and sink. It is heated by steam, and furnished with hoods, sand, steam and air baths, furnaces, balances, a good microscope, spectroscope, etc., suitable for carrying on all ordinary Laboratory work.

Students will be charged only for chemicals and apparatus actually used up. No charge is made for gas.

#### ENGINEERING DEPARTMENT.

The object of this department is to furnish a good foundation in Mathematics, Physics, Mechanics, and Drawing, and their applications, for the student of Civil or Mechanical Engineering. Its graduates will be prepared to become immediately useful in the office or field, in subordinate positions, and, after a fair amount of practice, to design and take charge of important works. The department is also open to those students whose time is limited, and who do not intend to graduate, by whom partial courses in Surveying and Draughting can be pursued with great practical advantage.

The department is well provided with the necessary field instruments, and each student is made familiar with their uses and management. The Draughting-room is well lighted from above, and is furnished with adjustable drawing-tables, models, drawings, etc.

Connected with the department is a machine-shop, in which a certain amount of practice is required of each student, who thus becomes acquainted with the uses of the various tools, and learns to avoid errors in designing, by being required to execute, from his own drawings, parts of structures or of machinery. The shop is well provided with excellent tools, including a screw-cutting engine lathe, iron planer, etc. A vertical engine and boiler of four horse power, built for the department, is used both for running the machinery and for class illustration and instruction.

## FRESHMAN CLASS.

	<i>No. of Ex. per week.</i>
<b>Physics.</b> —Lectures (first half-year) . . . . .	2
<b>Chemistry.</b> —Inorganic Chemistry; Lectures (last half-year) . . . . .	2
<b>Graphics.</b> —Construction of Plane Problems in Geometry; use of Draughting Instruments, India Ink, and Colors; Projections . . . . .	4
<b>Mathematics.</b> —Olney's Algebra, through Quadratic Equations; Davies's Legendre's Geometry, Books IV.—VI.; Chauvenet's Plane Trigonometry . . . . .	4
<b>French.</b> —Magill's Grammar; <i>Siège de la Rochelle</i> . . . . .	2
<i>Or, German.</i> —Otto's Conversation Grammar; <i>Der Neffe als Onkel</i> . . . . .	1
<b>History.</b> —Liddell's History of Rome; Schmitz's Manual of Ancient History and Lectures . . . . .	4
<b>English Literature.</b> —Lectures on English and General Literature (once a week first half-year) . . . . .	½
<b>Botany.</b> —Twice a week, second half-year) . . . . .	1
<b>Natural History.</b> —Zoology; Comparative Anatomy; Comparative Physiology (Lectures) . . . . .	1
<b>Elocution.</b> —Murdock and Russell's Vocal Culture; Coates's Speaker; Selections from Classical English Authors; Declamations . . . . .	1
<b>Rhetoric and Composition.</b> —Quackenbos's Rhetoric; Essays . . . . .	1

## ELECTIVE STUDIES.

<b>Early English</b> . . . . .	2
<b>Latin</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

SOPHOMORE CLASS.

	<i>No. of Ex. per week.</i>
<b>Mathematics.</b> —Davies's Legendre's Geometry, Books VII.—IX. ; Olney's Analytical Geometry; Olney's Differential and Integral Calculus . . . . .	4
<b>Physics and Chemistry.</b> —Lectures . . . . .	2
<b>Laboratory Practice.</b> —Blow-pipe Analysis and Determinative Mineralogy—Nason and Chandler; Qualitative Analysis— Thorpe . . . . .	4
<b>Descriptive Geometry.</b> —Orthographic Projections of the Point, Right Line, and Plane . . . . .	2
<b>Graphics.</b> —Projection Drawing; Tinting and Shading; Construc- tion of Problems in Descriptive Geometry . . . . .	4
<b>Surveying.</b> —Gillespie, and Lectures . . . . .	2
<b>German.</b> —Otto's Conversation Grammar; Wilhelm's Einer muss heirathen . . . . .	3
<i>Or, French.</i> —Magill's Grammar; Magill's Prose and Poetry . . . . .	2
<b>English Literature.</b> —Lectures on English and General Literature (once a week first half-year) . . . . .	1½
<b>Natural History.</b> —Zoology; Comparative Anatomy; Compara- tive Physiology (Lectures); Mineralogy, Geology, and Botany (once a week last half-year) . . . . .	1½
<b>Elocution.</b> —Selections from Classical English Authors; Declama- tions, Original and Selected . . . . .	1
<b>Rhetoric and Composition.</b> —Hart's Rhetoric; Essays . . . . .	1

ELECTIVE STUDIES.

<b>Early English</b> . . . . .	2
<b>Latin</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

## JUNIOR CLASS.

	<i>No. of Ex. per week.</i>
<b>Mechanics.</b> —Analytical Mechanics of Solids and Fluids . . . . .	4
<b>Mathematics.</b> —Chauvenet's Spherical Trigonometry; Olney's Higher Algebra . . . . .	4
<b>Political Economy.</b> —Principles of Political Economy, Mill; Carey (Lectures) . . . . .	1
<b>Natural History.</b> —Lectures on Mineralogy, Geology, and Botany (once a week last half-year) . . . . .	1/2
<b>Essays</b> on Scientific Subjects . . . . .	1
<b>French or German</b> . . . . .	3

## ELECTIVE STUDIES.

(*Twenty periods per week to be chosen.*)

<b>Chemical Philosophy.</b> —Cooke . . . . .	2
<b>Chemistry.</b> — <i>Practical</i> —Quantitative Analysis; Mineral Analysis; Spectrum Analysis; Volumetric Analysis . . . . .	4 to 18
<b>Engineering.</b> — <i>Geodesy</i> —Theory, Adjustment and use of Engineering Field Instruments; Leveling; Topographical, Triangular, and Hydrographical Surveying . . . . .	4
<b>Practical Exercises</b> in Engineering Field Work, or in the Machine Shop; Visits to and Sketches of Special Machinery and Structures . . . . .	10
<b>Descriptive Geometry.</b> —Warped Surfaces and Intersections; Shades, Shadows and Perspective; and Applications . . . . .	2
<b>Graphics.</b> —Topographical, Structure, and Machine Drawing; Principles of Mechanism . . . . .	6
<b>Latin</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2



## SENIOR CLASS.

	<i>No. of Ex. per week.</i>
<b>Astronomy.</b> —Descriptive Astronomy and Determination of Meridian, Time, Latitude and Longitude . . . . .	4
<b>Mental and Moral Philosophy.</b> —Lectures . . . . .	1
<b>Natural History.</b> —Lectures on Mineralogy, Geology, and Botany (once a week last half-year) . . . . .	1/2
<b>Essays on Scientific Subjects</b> . . . . .	1
<b>French or German</b> . . . . .	3

## ELECTIVE STUDIES.

*(Twenty-two periods per week to be chosen.)*

<b>Chemistry.</b> —Organic and Technical Chemistry . . . . .	2
<b>Laboratory Practice.</b> Quantitative Analysis continued; Organic Analysis; Special Determinations; Chemical Preparations . . . . .	8 to 22
<b>Engineering.</b> — <i>Road Engineering</i> —Theory and Practice; <i>Constructions</i> —Stability of Structures, Building Materials, Foundations and Superstructures, Bridge Engineering . . . . .	2
<b>Mechanics.</b> — <i>Physical Mechanics</i> —Friction and other Resistances, Stress and Strength of Materials, Practical Hydraulics, Practical Pneumatics; <i>Machines</i> —General Theory of Machines, Theory of Prime Movers . . . . .	4
<b>Graphics.</b> —Plans, Profiles, and Sections of Road Surveys; Machine and Structural Drawing; Working Drawings . . . . .	8
<b>Practical Exercises</b> in Field Work and in the Machine-shop . . . . .	10
<b>Latin</b> . . . . .	4
<b>Phonography.</b> —(Isaac Pitman's) . . . . .	2

## DEGREES, &c.

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The Degree of A. B. is conferred upon students who complete the Classical Course, and pass the examinations in the same.

The Degree of B. L. is conferred upon students who complete the Modern Classical Course (see pa. 17), and pass the examinations in the same.

The Degree of B. S. is conferred upon students who complete the Scientific Course, and pass the examinations in the same.

The Degree of A. M. will be given, three years after graduation, to all Bachelors of Arts who shall have engaged, during that period, in professional or literary studies, and who shall present an acceptable thesis.

The Degree of M. L. will be given, three years after graduation, to all Bachelors of Literature who shall have engaged, during that period, in professional or literary studies, and who shall present an acceptable thesis.

The Degree of M. S. will be given, three years after graduation, to all Bachelors of Science who shall have engaged, during that period, in professional or scientific studies, and who shall present an acceptable thesis upon some scientific subject.

The Degree of C. E. will be given, three years after graduation, to all Bachelors of Science of the Engineering Department who shall have engaged, during that period, in professional practice, and who shall present an acceptable thesis upon subjects pertaining to Civil Engineering.

Applications for the Second Degree in any course must be made, and the thesis presented, at least *three months* before Commencement.

The Second Degree will also be conferred upon those Bachelors of Arts, of Literature, or of Science who, as Resident Graduates, shall continue their studies, under the advice and direction of the Faculty, for one year after graduation, and pass the examinations in the same.

For the Completion of Partial Courses of study suitable certificates will be granted.

A Diploma and Certificates of different grades will be given for a more or less extended course in the Department of Theory and Practice of Teaching.

# GENERAL INFORMATION.

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## *SITUATION.*

SWARTHMORE COLLEGE is situated on the West Chester and Philadelphia Railroad, ten miles from Philadelphia. Cars leave the depot at Thirty-first and Chestnut Streets, Philadelphia, ten times daily.

## *POST-OFFICE ADDRESS AND CITY OFFICE.*

The Post-office address is SWARTHMORE, DELAWARE CO., PA. Express packages may be sent to this address, or, *if small*, may be left in care of Friends' Book Association, 706 Arch Street, Philadelphia.

## *LIBRARIES.*

The Libraries of the College now contain over three thousand volumes. Each department of study is supplied with a good and steadily increasing library of reference. The General Library is accessible to all the students, according to the rules established by the Faculty, and is open four times a week during term-time for the delivery of reading books, and daily for the delivery of books of reference needed by the students. It is open at all times to teachers and members of the household.

Friends' Historical Library of Swarthmore, founded by Anson Lapham, which contains a small but increasing collection of Friends' books, photographs of representative Friends, and manuscripts relating to the Society and its history, is at all times accessible to teachers, students, and members of the household.

## *READING ROOM.*

The Reading Room is supplied with the leading Literary and Scientific journals, and the prominent newspapers of the principal cities, and is open to students at all times except during the regular hours for study and recitations.

## *LITERARY SOCIETIES.*

There are three Literary Societies maintained by the students, two for young men, and one for young women. These hold regular meetings for the reading of Essays, &c., and for practice in debates. Their Libraries, under their own management, number several hundred volumes, and are accessible to all of the College students.

### MUSEUM.

The Museum of the College, intended to illustrate the course of instruction in Natural History, consists of collections in the departments of Mineralogy, Conchology, Botany and Zoology. It contains a choice collection of minerals, and a fair collection of shells, rocks and fossils. The Zoological Cabinet is supplied with characteristic specimens illustrative of most of the classes and orders of animals, and mainly by examples from our own country. The Cabinet thus contains a good collection of our native birds, the smaller mammals, many reptiles, a few fishes, numerous mollusks and insects, and a few specimens of nearly all the orders of invertebrates. The Museum is constantly growing, especially by the addition of more familiar forms of animals, which are best adapted for illustration and instruction in Zoology. It is under the care of Dr. Joseph Leidy, of Philadelphia, who delivers lectures upon Natural History once a week throughout the year, and twice a week during the Spring months.

### PHYSICAL CULTURE.

Regular daily exercise in the open air is encouraged, for which the extensive grounds connected with the College afford ample facilities.

### BUILDINGS AND GROUNDS.

The College property contains 240 acres of which about one-half is devoted to the farm, and the remainder consists of lawn and pleasure grounds. Crum Creek, which forms the west boundary of the property, furnishes excellent facilities for boating, bathing, and skating. The Main Building, a massive stone structure 348 feet long and four stories high, contains the living rooms of the Students and Instructors, and the Lecture and Recitation rooms. It is heated throughout by steam, and lighted by gas, and supplied with spring water, and bath rooms on every floor.

### RELIGIOUS EXERCISES.

While care is taken to inculcate the doctrine that religion is a matter of practical daily life, and is not confined to the observance of set forms or the promulgation of religious tenets, the regular assembling for religious purposes is carefully observed. On First-day morning a religious meeting is held, attended by students, teachers, and members of the household, and occasionally by visiting Friends. The meeting is preceded by First-day school exercises, consisting of the recitation of passages of Scripture prepared by members of the different classes, and the reading of a portion of Scripture at the close. The daily exercises are opened by a general meeting for reading selected portions of

Scripture, or other suitable books, and imparting such moral lessons as circumstances seem to require, followed by a period of silence before entering upon the duties of the day.

### VISITING AND LEAVE OF ABSENCE.

Students should not be visited at the College on the FIRST DAY OF THE WEEK.

Leave of absence cannot be granted without a written request from parents or guardians, which request should, in all cases, be accompanied by reasons satisfactory to the Faculty.

Students may be visited, on week-days, by parents or guardians, or by near relatives, or others approved by parents or guardians; but general visiting is discouraged. *Students must not be interrupted in their studies or recitations at any time.*

All persons who are interested in education, and who are desirous of examining the methods of instruction and discipline at Swarthmore, will be welcomed at any time, and should, when convenient, communicate with the President upon the subject in advance.

### COMMENCEMENTS AND VACATIONS.

The College year begins on the second Third-day of Ninth month, and closes with Commencement-day, which occurs on the third Third-day of Sixth month.

Students are not admitted for a period terminating earlier than the current College year, but, when vacancies exist, may enter at any time during the year, if prepared to join existing classes.

Besides the summer vacation there will be a vacation of one week at the close of the Twelfth month, and the week of Friends' yearly meeting, in Philadelphia, in the Fifth month. (See calendar.)

Students are permitted to remain at the College, under care, during the Spring and Winter recess, but not during the Summer vacation.

### OUTFIT.

Although no form of dress is prescribed for either sex, such simple attire as is appropriate to school life is earnestly recommended. Earrings, bracelets, necklaces, and elaborately-trimmed dresses are prohibited.

Students should be supplied with six towels, six napkins, two clothes-bags, a wrapper, slippers, umbrella, and the requisite toilet articles. Every article must be marked with the full name of the owner.

*USE OF TOBACCO.*

The use of Tobacco being strictly prohibited, those addicted to its use, unless prepared to renounce it entirely, should not apply for admission.

*EXPENSES.*

FOR RESIDENT STUDENTS the price of board and tuition is \$350 per year, of which \$200 is payable in advance, and \$150 on the first of First month. A proportionate deduction is made to those students who enter after the opening of the College year.

FOR DAY SCHOLARS the price is \$200 per year, of which one-half is payable in advance, and the remainder on the first of First month. The day scholars dine with the resident students.

Books are furnished for the use of students without expense, but they buy their own stationery and drawing implements. Students in Practical Chemistry pay for the chemicals which they use in the Laboratory. No additional charge is made in case of sickness unless a physician is employed.

*THERE ARE NO EXTRA CHARGES.*

The price being made as low as experience shows to be compatible with prudence, while many of our expenses are annual in their character, and teachers and other officers at fixed yearly salaries must be engaged in proportion to the number of students entered, we cannot, in case of withdrawal, return the full proportionate amount paid, without loss. When the connection of a student with the College shall terminate before the end of the period for which payment has been made, by sickness, or any other cause, approved by the Faculty, the student may have the privilege of sending an approved substitute, for the unexpired term, or may apply, in writing, to the Treasurer, and a return will be made at the rate of \$25 per month, from the date of said application or written notice that the place is vacated.

*PAYMENTS.*

Payments are to be made by check or draft to the order of

ROBERT BIDDLE, TREASURER,

NO. 511 COMMERCE STREET, PHILADELPHIA.

# PREPARATORY SCHOOL.

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## *GENERAL STATEMENT.*

This school is intended to prepare students for the Classical and Scientific Courses of the College, or to furnish a good practical education to those desiring a shorter course. Most of the studies pursued are required of all, but few being optional, as experience has clearly shown that young students make much more satisfactory progress when pursuing a regularly required course, even for a single year, without any idea of graduation, than when they select all their studies for themselves. The course of study in this school, while it is an essential preparation for the departments of the College, is also believed to be the best training for those whose means and circumstances require that they should finish their studies in the Preparatory School, or before reaching the end of the College course. Attention is invited to the course of study as here arranged, and the various Preparatory Schools throughout the country are requested to conform to it, as far as practicable, and to prepare students to enter our Freshman Class, either in the Classical, the Literary or the Scientific course. To secure this end, a thorough mastery of the elementary principles of the *subject* taught, and not a mere knowledge of the text-books required, is most earnestly recommended. Subsequent study can rarely, if ever, atone for deficient preparation.

## *ORGANIZATION.*

The School is at present divided into four classes, A, B, C, and D. Classes A and B are divided into classical and scientific sections, preparing for these respective courses in the College.

## *GOVERNMENT AND INSTRUCTION.*

The students of the Preparatory School are under the same general management as the College classes. With a few exceptions, the same

general rules are applicable to both, and the students of this School receive instruction from teachers employed especially for this purpose, and also from professors and instructors of the College.

### EXPENSES, ETC.

For expenses, payments, etc., see under General Information, on page 32.

The charges in the Preparatory School are the same as in the College, with the following exceptions:

In Class C the charge is \$300 a year.	
The 1st payment is	\$200 00
“ 2d “	100 00
In Class D the charge is \$250 a year.	
The 1st payment is	\$200 00
“ 2d “	50 00

### CONDITIONS OF ADMISSION.

Applicants for admission must be at least thirteen years old, and should submit to the President, from their last teacher, satisfactory testimonials of good moral character.

Examinations for admission will be held on Third, Fourth, and Fifth-days, the 14th, 15th, and 16th of Ninth month, 1880. Candidates must present themselves at three o'clock P. M. on Third-day, the 14th of Ninth month. To secure places, applications for admission for the next scholastic year should be made, as early as possible, by letter to the President.

Candidates for admission to Class C will be examined as follows:

In Elements of English Grammar, embracing a knowledge of the Parts of Speech and their uses; Reading and Spelling; Geography of the United States; Arithmetic, through Decimal Fractions.

Candidates for the advanced classes of the Preparatory School will be further examined in the studies of the classes below that which they propose to enter.



# COURSES OF STUDY.

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The only elective studies in the Preparatory School are as follows:  
 Natural History (Lectures), elective in all the classes;  
 Latin and French, elective in classes C. and D.

When specially requested, German may be substituted for French in any of the classes of the Preparatory School.

## CLASS D.

This Class consists of those not sufficiently advanced to enter Class C.

The Studies pursued are the same in both Classes.

## CLASS C.

	<i>No. of Ex. per Week.</i>
<b>Arithmetic.</b> —Brooks's Normal Written and Brooks's Normal Mental Arithmetic, through Interest . . . . .	4
<b>Geography.</b> —Guyot's Grammar School Geography; Map Drawing . . . . .	3
<b>Grammar.</b> —Swinton's Language Lessons . . . . .	3
<b>History.</b> —Ridpath's History of the United States . . . . .	2
<b>Reading and Speaking.</b> —Phonetic Spelling; Enunciation of Words; Monroe's Fifth Reader; Declamations . . . . .	3
<b>Spelling.</b> —Leach's Speller, and Dictations . . . . .	2
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-Hand Drawing</b> . . . . .	2

### *Elective Studies.*

<b>Latin.</b> —Harkness's Introductory Latin Book . . . . .	2
<b>French.</b> —Magill and Paulin's First Lessons in French . . . . .	2

## CLASSICAL COURSE.

## CLASS B.

	<i>No. of Ex. per week.</i>
<b>Latin.</b> —Harkness's Grammar and Reader; Cæsar begun . . . . .	4
<b>French.</b> —Magill and Paulin's First Lessons in French; Magill's Introductory French Reader . . . . .	3
<b>Mathematics.</b> —Milne's Practical Arithmetic; Brooks's Algebra, through Division . . . . .	3
<b>Geography.</b> —Warren's Physical Geography . . . . .	2
<b>History.</b> —Anderson's History of England . . . . .	3
<b>Reading and Speaking.</b> —Phonetic Spelling; Enunciation of Words; Hillard's Fifth Reader; Declamation . . . . .	2
<b>Spelling.</b> —Leach's Speller, and Dictations . . . . .	1
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-Hand Drawing</b> . . . . .	2

## CLASS A.

<b>Latin.</b> —Harkness's Grammar; Harkness's Latin Prose Composi- tion, first thirty lessons; Cæsar's Gallic War, continued; Virgil's Æneid begun . . . . .	4
<b>French.</b> —Magill's French Grammar; Magill's Introductory French Reader . . . . .	3
<b>Mathematics.</b> —Brooks's Algebra to Quadratic Equations; Da- vies's Legendre's Geometry, Books I.—III. . . . .	3
<b>Physics.</b> —Elementary Physics and Chemistry (Lectures) . . . . .	1
<b>Uranography.</b> —(Twice a week first half-year) . . . . .	1
<b>Physiology.</b> —(Twice a week last half-year) . . . . .	1
<b>History and Geography.</b> —Smith's History of Greece; Review of the History of the United States and England . . . . .	3
<b>Reading and Speaking.</b> —Hillard's Sixth Reader; Murdock and Russell's Vocal Culture; Declamation . . . . .	2
<b>Spelling.</b> —General Exercises upon Lists of Difficult Word's; Dic- tations . . . . .	1
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-Hand Drawing</b> . . . . .	2

## SCIENTIFIC COURSE.

## CLASS B.

	<i>No. of Ex. per week.</i>
<b>Mathematics.</b> —Milne's Practical Arithmetic; Brooks's Algebra, through Division . . . . .	4
<b>*English Grammar.</b> —Brown's English Grammar . . . . .	4
<b>French.</b> —Magill and Paulin's First Lessons in French; Magill's Introductory French Reader . . . . .	3
<b>Geography.</b> —Warren's Physical Geography . . . . .	2
<b>History.</b> —Anderson's History of England . . . . .	3
<b>Reading and Speaking.</b> —Phonetic Spelling; Enunciation of Words; Hillard's Fifth Reader; Declamations . . . . .	2
<b>Spelling.</b> —Leach's Speller, and Dictations . . . . .	2
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-Hand Drawing</b> . . . . .	2

## CLASS A.

<b>Mathematics.</b> —Brooks's Algebra to Quadratic Equations; Da- vies's Legendre's Geometry, Books I.—IV. . . . .	4
<b>Physics.</b> —Elementary Physics and Chemistry (Lectures) . . . . .	1
<b>*English Grammar.</b> —Analysis and Parsing, Merchant of Venice . . . . .	4
<b>French.</b> —Magill's French Grammar; Magill's Introductory French Reader . . . . .	3
<b>Uranography.</b> —(Twice a week first half-year) . . . . .	1
<b>Physiology.</b> —(Twice a week last half-year) . . . . .	1
<b>History and Geography.</b> —Smith's History of Greece; Review of the History of the United States and England . . . . .	3
<b>Reading and Speaking.</b> —Hillard's Sixth Reader; Murdock and Russell's Vocal Culture; Declamations . . . . .	2
<b>Spelling.</b> —General Exercises; Dictations . . . . .	2
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-Hand Drawing</b> . . . . .	2

\*Latin may be substituted for English Grammar in this course, at the request of parents or guardians.

# List of Students in Preparatory School.

## CLASS A.

### CLASSICAL SECTION.

ASH, HENRY C.	Philadelphia, Pa.
ATLEE, EDWIN J.	Philadelphia, Pa.
ATLEE, MARGARET	Philadelphia, Pa.
BALDWIN, IDA L.	Philadelphia, Pa.
BAKER, ALICE C.	East Hamburg, N. Y.
BENTON, HATTIE E.	Brooklyn, L. I.
CALEY, MARY M.	Newtown Square, Pa.
COLES, MARGARET	Harrisonville, N. J.
CUTLER, ANNA M.	Unionville, Pa.
DILL, WILLIAM R.	Richmond, Ind.
ELKINS, WILLIAM L.	Philadelphia, Pa.
FORSYTH, J. EARL	Pemberton, N. J.
GARRETT, EMMA	Williston, Pa.
GOSSLER, KATHARINE	Columbia, Pa.
GREER, ANNIE N.	Philadelphia, Pa.
GRIER, DAVIS N.	Salem, N. J.
GRIER, HENRY	Salem, N. J.
GRIEST, ELLA M.	Otoe Agency, Neb.
GRIFFEN, EDITH	Brooklyn, L. I.
HOPPER, RAYMOND G.	Newark, N. J.
JOHNSTON, LINDA L.	Philadelphia, Pa.
KIRK, SAMUEL	Newtown Square, Pa.
KIRK, THEODORE V.	Philadelphia, Pa.
LEVIS, FLORENCE	Upper Darby, Pa.
MCCORMICK, CHARLES H.	Mt. Auburn, Ohio.
MERRICK, CLARA J.	Wrightstown, Pa.
MOORE, FREDERICK P.	Sandy Spring, Md.
MOREY, NETTIE E.	Nassau, N. Y.
PATTERSON, HENRY L.	Philadelphia, Pa.
PRICE, JOHN B.	Upper Lehigh, Pa.
READ, ALFRED H.	Norristown, Pa.

ROSSITER, URIAH P.	Girard, Pa.
SATTERTHWAITE, LAURA H.	Trenton, N. J.
SHENK, DAVID B.	Lancaster, Pa.
STEVENS, BESSIE	Reading, Pa.
TELLER, JULIUS L.	Philadelphia, Pa.
THOMAS, RUTH K.	King of Prussia, Pa.
THOMPSON, MARY J.	Philadelphia, Pa.
TURNER, GERTRUDE	Washington, D. C.
VALENTINE, ELLA	Brooklyn, L. I.
VERNON, EDGAR	Mt. Cuba, Del.
WALTON, MARY D.	Pomeroy, Pa.
WETHERED, CARRIE	San Francisco, Cal.
WINTRINGHAM, HELEN E.	Brooklyn, L. I.

## CLASS A.

## SCIENTIFIC SECTION.

ALLEN, BENJAMIN F.	Germantown, Pa.
BETTS, JOSEPHINE	Wilmington, Del.
BREWSTER, SARAH	Rahway, N. J.
CALDWELL, FRANK G.	Philadelphia, Pa.
DODD, JOHN W.	Fort Reid, Fla.
DOWDALL, WILLIAM F.	Avondale, Pa.
EARLE, ARTHUR H.	Germantown, Pa.
FORSYTH, ANNA L.	Pemberton, N. J.
FOWLER, GEORGE R.	Cienfuegos, Cuba.
GASKILL, ADDIE R.	Birmingham, N. J.
HALLOWELL, WILLIAM P., JR.	Philadelphia, Pa.
HAMILL, WILLIAM	Philadelphia, Pa.
HOLLOWAY, GEORGE H.	Brooklyn, L. I.
JONES, MORTIMER A.	Germantown, Pa.
KENT, LEORA S.	Cochransville, Pa.
LEVIS, CHARLES	Upper Darby, Pa.
LYNDE, FRANK E. P.	Philadelphia, Pa.
MENCKE, WILLIAM F.	Philadelphia, Pa.
MENDENHALL, JESSIE	Wilmington, Del.
PANCOAST, HANNAH L.	Woodstown, N. J.
PATTERSON, FRANK E.	Philadelphia, Pa.
PYLE, CARLETON J.	Mortonville, Pa.
SMEDLEY, EDGAR M.	Media, Pa.

SMEDLEY, SAMUEL . . . . .	Media, Pa.
SUTTERLEE, GILBERT T. . . . .	Philadelphia, Pa.
WARNER, ADDIE M. . . . .	Philadelphia, Pa.
WHITE, ELIZABETH . . . . .	Denton, Md.
WILSON, DAISY . . . . .	Dover, Del.
ZÖRNS, FRANK . . . . .	Sellersville, Pa.

## CLASS B.

## CLASSICAL SECTION.

CARTER, ROBERT D. . . . .	Elkton, Md.
COURTRIGHT, WILLIAM B. . . . .	Philadelphia, Pa.
DEACON, JOSEPHINE . . . . .	Waterbury, Conn.
GRIEST, ESTHER H. . . . .	Otoe Agency, Neb.
HALE, HORACE B. . . . .	Buck Mountain, Pa.
HALLOWELL, J. MOTT . . . . .	West Medford, Mass.
HATFIELD, BENJAMIN C. . . . .	Rockville, Pa.
HITE, MARCUS C. . . . .	Hites, Pa.
LARUE, MARGARET J. . . . .	Philadelphia, Pa.
MEEHAN, FANNY G. . . . .	Germantown, Pa.
PEARCE, ROBERT M. . . . .	Philadelphia, Pa.
SCULL, WILLIAM C. . . . .	Camden, N. J.
SMITH, WILLIAM H. . . . .	Canandaigua, N. Y.
STEVENS, RICHARD G. . . . .	New York City, N. Y.
VERNON, MARIS H. . . . .	Mt. Cuba, Del.
WETHERED, MOLLIE . . . . .	San Francisco, Cal.
WILSON, J. CHARLES . . . . .	Logansport, Ind.

## CLASS B.

## SCIENTIFIC SECTION.

ALLEN, WILLIAM . . . . .	Germantown, Pa.
BONES, WARD H. . . . .	New York City, N. Y.
DEWEY, WILLIAM H. . . . .	New York City, N. Y.
FOWDEN, ELIZABETH D. . . . .	Ashton Mills, Pa.
GARWOOD, CHARLES A. . . . .	Medford, N. J.
HANCOCK, CLAYTON . . . . .	Columbus, N. J.
HIRSH, HARRY . . . . .	Philadelphia, Pa.
HOOPES, ANNA W. . . . .	New Castle, Del.
HOOPES, MARY C. . . . .	New Castle, Del.
HORNER, FRANK . . . . .	Harrisonville, N. J.

JENNINGS, HARRY J.	Tidioute, Pa.
LIPPER, HARRY M.	Philadelphia, Pa.
MATLACK, ENOCH	Bryn Mawr, Pa.
MCKNIGHT, ELEANOR	Reading, Pa.
MOORE, GEORGE H.	Sandy Spring, Md.
PALMER, LAURA M.	Doe Run, Pa.
PENNOCK, CHARLES W.	Coatesville, Pa.
POWNALL, LEVI	Christiana, Pa.
RIDDLE, CHARLOTTE B.	Glen Riddle, Pa.
RIDDLE, L. MAUD	Glen Riddle, Pa.
SCHOOLEY, JOHN C.	Hunting Hill, Md.
STEEL, JAMES	Germantown, Pa.
STOVER, HUGH C.	Erwinna, Pa.
THORNTON, SAMUEL	Byberry, Pa.
UNDERHILL, BENJAMIN M.	Orange, N. J.
VERNON, ELIZABETH M.	Mt. Cuba, Del.
WHITSON, THOMAS	Flushing, L. I.

## CLASS C.

ANGELL, MABEL	Philadelphia, Pa.
BENTON, LILLIAN J.	Brooklyn, L. I.
BLACK, GEORGE	Columbus, N. J.
BROGNARD, MARY C.	Morton, Pa.
DAVIS, CHARLES G.	Philadelphia, Pa.
HALEY, JOHN J.	Oakdale, Pa.
HITE, LIZZIE J.	Hites, Pa.
HOPPER, STANLEY	Newark, N. J.
LETCHWORTH, LILLIE M.	Philadelphia, Pa.
LOEB, EUGENE	Philadelphia, Pa.
MATLACK, J. WALTER	Bryn Mawr, Pa.
NEWELL, ROBERT M.	Salem, N. J.
RIDDLE, W. LEANDER	Glen Riddle, Pa.
SMEDLEY, ELIZABETH	Media, Pa.
STOVER, CARRIE C.	Erwinna, Pa.
SUMNER, EDWARD W.	Brooklyn, L. I.
SUMNER, HELEN K.	Brooklyn, L. I.
TAYLOR, HOWARD G.	Byberry, Pa.
THOMAS, MARY L.	Perth Amboy, N. J.
THOMPSON, JUSTICE M.	Philadelphia, Pa.
WETHERED, WOODWORTH	San Francisco, Cal.

## SUMMARY.

Class A . . . . .	73
Class B . . . . .	44
Class C . . . . .	21
	<hr/>
Total in Preparatory School . . . . .	138

## GENERAL SUMMARY

OF THE

## COLLEGE AND PREPARATORY SCHOOL.

Resident Graduate . . . . .	1
Senior Class . . . . .	14
Junior Class . . . . .	20
Sophomore Class . . . . .	36
Freshman Class . . . . .	57
Preparatory School . . . . .	138
	<hr/>
Total . . . . .	266

## SUMMARY BY STATES.

Pennsylvania . . . . .	144
New York . . . . .	34
New Jersey . . . . .	29
Delaware . . . . .	15
Maryland . . . . .	14
Ohio . . . . .	6
District of Columbia . . . . .	4
Indiana . . . . .	4
Connecticut . . . . .	3
Nebraska . . . . .	3
California . . . . .	3
Maine . . . . .	1
New Hampshire . . . . .	1
Massachusetts . . . . .	1
Florida . . . . .	1
Texas . . . . .	1
Canada . . . . .	1
Cuba . . . . .	1
	<hr/>
Total . . . . .	266



MINUTES  
OF THE  
SIXTEENTH ANNUAL MEETING  
OF THE  
STOCKHOLDERS  
OF  
SWARTHMORE COLLEGE,  
HELD  
TWELFTH MONTH SECOND,  
1879.

## MINUTES.

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At the Sixteenth Annual Meeting of the Stockholders of Swarthmore College, held at Race Street Meeting House, Philadelphia, Twelfth month 2nd, 1879, due public notice having been given, in accordance with the provisions of the Charter :—

The minutes of the last Annual Meeting were read and approved.

The terms of office of the following Managers expired at this time :

John D. Hicks,	Hannah W. Haydock,
Robert Willets,	Anna M. Ferris,
Joseph Wharton,	Mary T. Longstreth,
M. Fisher Longstreth,	Annie Shoemaker.

To nominate the officers of the Corporation, required by the Charter, viz. : two Clerks and a Treasurer, to serve for the ensuing year, and eight Friends, who are Stockholders, to fill the vacancies in the Board of Managers ;—on motion :—Resolved, that a committee of four Stockholders from each of the Yearly Meetings of Philadelphia, New York, and Baltimore, be appointed ; and also that this committee nominate two Stockholders from each of the said Meetings to serve as Tellers. The following were appointed :

PHILADELPHIA:—Dilwyn Parrish, Daniel Foulke, Alan Wood, Susan M. Parrish :

NEW YORK:—Robert Haydock, Isaac H. Cocks, Margaret G. Corlies, Samuel Willets, of L. N. :

BALTIMORE:—Joseph Matthews, Mary A. Blackburn, Eli M. Lamb, Ephraim Larrabee.

The following Report of the Treasurer was read and approved, and referred to the incoming Board for publication :—

# TREASURER'S REPORT.

ROBERT BIDDLE, *Treasurer, in account with SWARTHMORE COLLEGE.*

1878.	DR.		
9th mo. 9th.	To Balance on hand,		\$886 28
1879.			
9th mo. 1st.	Loan Endowment Committee, ret'd,	2,000 00	
	Capital Stock, \$3,000 New York,		
	\$1,635, Philadelphia	4,635 00	
	Amount received for Tuition,	75,924 99	
	“ “ Board,	5,182 75	
	“ “ Farm Products,	2,493 06	
	“ “ Petty Cash and Stationery,	1,439 74	
	“ “ Rents,	280 00	
	“ “ Interest,	601 60	
		\$93,443 42	
	CR.		
	By Loan Endowment Committee,		\$2,000 00
	Construction Acc't, Drafts of Finance Com., for Barn,		4,610 00
	<i>College Expenses, Session of 1878-9.</i>		
	Salaries,		\$26,267 48
	Wages,		5,541 76
	Taxes, Advertising, Freights, etc.,		3,593 58
	Repairs,		9,844 49
	Provisions,		12,408 26
	Fuel,		2,501 40
	Light,		2,426 21
	Farm,		2,347 96
	Books, Stationery and Postage,		4,561 56
	Butter,		2,556 50
	Meat,		6,554 44
	Trust Fund Account,		4,139 46
	By Cash paid for Insurance,		239 46
	“ “ Interest Endowment Com.,		1,490 50
	“ “ for returned Tuition,		617 15
	By Draft Finance Com., S. Willets' Fund,		716 27
	“ Balance,		1,026 94
		\$93,443 42	\$93,443 42
	To Balance on hand,		\$1,026 94
	S. Willets' Fund is, 9mo. 1st, 1878, Balance,	\$2,063 89	
	“ “ 9mo. 1st, 1879, Interest,	117 86	
		\$2,181 75	
	“ “ 7mo. 8th, 1879, Voucher,	\$716 27	
	“ “ 9mo. 1st, 1879, Balance,	1,465 48	
		\$2,181 75	

We have examined the above account of Robert Biddle, Treasurer, compared the vouchers for payments, and find the same correct.

M. FISHER LONGSTRETH,  
EDWARD H. OGDEN,

*Philadelphia, Ninth month, 8th, 1879.*

*Auditors.*

The following Report of the Board of Managers was read, approved, and referred to the incoming Board for publication:—

## MANAGERS' REPORT.

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Swarthmore College has now been open for students ten years, and is entering, under favorable auspices, upon its second decade. The first class was graduated in 1873, four years after the opening of the College, and the whole number of graduates up to the present time is seventy-one. This body of Alumni, by the character and influence of the individuals of which it is composed, as it increases from year to year, will speak more for the College than any advertisements or published Annual Reports. The time is fast approaching when these young men and women, having been taught the value and the needs of the College by their personal experience within its walls, will become a highly important influence in its general management. It should also be borne in mind that the work of the College is not to be estimated merely by the number, or even by the character of its graduates, but by the influence which it has exerted upon *all* who have been under its care. The whole number of students who have been in attendance during the past ten years is 1335, of whom 781 were boys and 554 girls. Many of these have spent four or five years in the College and Preparatory Schools, and some as many as seven or eight years. A very considerable portion of the whole number have been Friends, and at the present time, of the 265 in attendance, a greater number than on any previous year, about one-half are children of Friends.

Of the students in attendance the present year, an unusually large number are in the College, or the upper class of the Preparatory School, there being 73 in Class A, and 127 in the College Classes. As Friends' schools are established throughout the limits of our Society, and supplied with teachers competent to organize them upon a proper basis, and thus to do at home, the earlier preliminary work required for admission to the College, more and more will apply for admission to Class A, or to the Freshman Class, and it is believed that thus, in a few years, many who cannot now afford the expense of sending their children from home, to go through both the Preparatory School and the College Classes, will be able to send them until graduation, beginning at once with the Freshman Class, or with Class A, of the Preparatory School.

The only important change in the department of Instruction during the past year has been made by the resignation of Maria L. Sanford, Professor of History. The department is now divided among other

Instructors, and a special course of Lectures upon this subject is given to the College Classes by our non-resident Professor of English Literature, Dr. Joseph Thomas. The course in the Theory and Practice of Teaching is now under the care of Amelia P. Butler, an experienced Instructor, and a graduate of the Oswego Training School. Under her direction, a class of teachers is receiving the most careful and thorough training to fit them for the important work in which they are soon to engage, constant *practice* in teaching, under her immediate supervision, being combined with *theory* throughout their course. The classes used as Practice Classes are now only the lowest (C and D) of the Preparatory School. These having the constant oversight of the head of the department, the instruction which they receive is improved rather than otherwise by the establishment of this course.

The present condition of our Library should claim the serious attention of the friends of the College. It now numbers 3194 bound volumes, and is increasing slowly, chiefly by individual donations, from year to year. It is certainly to be hoped that the day is not far distant when we shall have a large Library fund, the *income* of which may be devoted to the one object, the steady increase of the Library.

The Librarian is preparing a complete catalogue of the books, manuscripts, engravings, photographs, etc., contained in the "Friends' Historical Library." This catalogue will enable one to find readily all that the collection contains relative to any prominent person or event connected with the early history of the Society of Friends, and will add greatly to its usefulness and interest. It will be completed early in the coming year, and will be so arranged that future additions can be inserted in their proper places. This Library already contains much that is rare, valuable and interesting, and it is hoped that Friends having in their possession books or documents relating to the early history of our Society, will, by depositing them here, assist in making the collection complete, and will thus render their permanent preservation secure. A very valuable addition has just been made to the collection, by the gift of one hundred volumes, principally relating to the early history and literature of Friends, donated by our friend Charles Thompson, of Manchester, England, in commemoration of his visit to the College during the Centennial year. This Library now numbers 666 bound volumes, besides manuscripts, engravings, etc., and is provided for in a fire-proof part of the building.

It will be remembered that three years ago the Literary, or Modern Classical course was established, leading to the degree of Bachelor of Literature. This seems to have met a real want in the case of students who have not found what they wished in the purely classical or the scientific course. In it the modern languages, English, French and German are substituted for the ancient languages, and especial attention is paid to the study of English. It may not be generally

known what opportunities are offered in this department. Here a mere general knowledge of our literature, with names and dates, is not considered sufficient, but during a four years' course such representative authors as Chaucer, Spenser, Milton, Cowper and Wordsworth, are read with the same careful attention required in the study of the Greek and Latin classics. The history and growth of the language itself are considered, and its character at the different stages of its development carefully noted. It certainly cannot be said that Swarthmore does not offer suitable opportunity for the study of the mother tongue and its noble literature.

In the department of Physics and Chemistry the regular courses of lectures are being given. They are illustrated by experiments as far as the apparatus belonging to the College will permit. For this department we are having constructed, by the students in our own shop, a dynamo-electric machine and other apparatus. It is to be hoped that in time the shop will be able to supply the College with all the less delicate appliances needed in this and other departments of instruction.

A Lecture Room for Physics and Chemistry, to which allusion has heretofore been made, has now become a necessity. The number of students pursuing these studies is so great that it is impossible to seat them in the room at present available. The *Practical work* in this department is at present confined to the Chemical Laboratory. Here the number of students is so large that more ample accommodations are required, and more of these than ever before are taking the advanced course. To the apparatus of this Laboratory has lately been added one of Trœmner's best balances. We have not yet been able to open the Physical Laboratory, which the Managers have so long had in contemplation. When this want is supplied we can offer our students in Physics an opportunity to perform experiments and teach them how to conduct investigations for themselves. Taught in this way the various branches of science may be made valuable means of culture and discipline, while the practical bearing of such work must commend itself in an especial manner to a people who have always discouraged the purely ornamental in education.

Occupations which were formerly but trades, depending mainly on manual skill, and requiring only a small amount of mental exertion, have now risen to the importance of professions, based upon some branch of science, the knowledge of which is necessary to their highest and most successful pursuit. To furnish the preparation required for the successful practice of these new professions, special schools and scientific courses of study have been established. In this work, Friends, by right of inheritance, have a peculiar interest, they having been ever among the foremost in advancing the application of the sciences to industrial pursuits. The first person who used coal in the manufacture of iron, (Abraham Darby); the first who replaced wooden rails by iron ones, (Richard Reynolds); the first designer and

builder of an iron bridge, (Abraham Darby, Jr.); and the inventor of cast steel, (Benjamin Huntsman), were all Friends.

From the opening of our College, prominence has been given to Scientific studies. Regular lectures in Natural History have been given, and a Muscum has been formed, containing many valuable specimens, illustrative of this subject. Especial importance has always been given to the practical sciences, and their applications to the useful arts. In addition to the courses having this bearing, already referred to, courses in Draughting, and in Mechanics and Engineering were early established. Instruction in these departments is necessarily expensive, and requires a considerable annual outlay; but either by direct appropriation from the current receipts, or by gifts from interested friends, the means have been found to add, year by year, to the necessary appliances, until a large amount of valuable illustrative and working apparatus has been secured. A high standard has been reached and maintained in this department; the interest of our students has continually increased; and our greatest difficulty has been to provide suitable apartments in which to give the instruction, on account of the size of the classes.

The Managers desire in this Report to call the especial attention of the Stockholders, and other friends of the College, to the necessity of providing ample and suitable accommodations for these departments, which have entirely out-grown the provisions originally made for them in the main College building, and which, on account of their importance as the foundation of modern industrial pursuits, it is especially our desire to encourage. The departments of Mechanics, Draughting, and Engineering occupy temporary quarters in one end of the Gymnasium, and in this frame building are kept the valuable tools, surveying and engineering instruments, machines, models, drawings, etc., which it would be difficult to replace in case of loss. About one-third of the Gymnasium is thus appropriated, and yet more room is wanted for additional work-shops. It will be seen that there are various and pressing needs in the different sections of the Scientific department referred to in this Report. In order to supply these, and contribute greatly to the present value, and prospective efficiency of the College, a new Scientific Building should be erected at an early day.

The departments of the Classics, the Mathematics, and of French and German are under the same management as last year, and are in a satisfactory condition.

Various improvements upon the grounds are deserving of mention in this Report. A large barn has been erected during the past summer, at a cost of about \$5000. This sum was not taken from the College funds, but generously subscribed by a few interested friends. The change in the location of the road, referred to in last year's Report, has now been made, and the new road is open to the public. During the coming summer the old road, now vacated, will be graded down,

and included in the lawn, which will greatly improve the appearance of the grounds. An increased supply of water has been obtained by digging a large well near the College, and also by constructing a new reservoir near the rail road, from which an additional supply of pure spring water can be obtained when required. The farm is in good condition and compares favorably with those in the vicinity.

The household department, under the efficient management of Caroline S. Wood, whose appointment as Matron was referred to in last year's Report, is in a satisfactory condition. The social interests of the students of both sexes receive her especial care and maternal oversight. The number of our girls has largely increased during the past year, and the simplicity of their attire upon all occasions has been a source of especial satisfaction to the Managers.

The religious meetings at the College have, until recently, been held in the general study room. Although they have been very satisfactory, and increasingly so during the past year, yet we have long felt the need of a different place for holding them, where the students would not be immediately surrounded by objects associated with their daily studies. Through the generous liberality of a member of the Board, this want has now been supplied, by the erection of a commodious meeting house on the College grounds. The meetings held in this house are, as before, under the immediate direction and control of the College authorities. They are also attended by some Friends from the neighborhood, and occasionally by those from a distance.

Increasing care is taken to inculcate among the students, both by precept and example, the principles and testimonies of our religious Society, and we feel warranted in saying to Friends everywhere that Swarthmore is yearly becoming more and more worthy of their confidence and support in this important particular. The authorities are well aware that with the large number of colleges already existing in the country there was no *room*, and no *need* for the establishment of another, except to furnish to our children and others, opportunities to obtain a thorough collegiate course in a well regulated *home*, and under the guarded care of *Friends*.

Since our last Report was issued, our friend Elizabeth S. Worth has been removed by death. She felt a deep interest in the welfare of the College, and her valuable services, together with those of her husband S. B. Worth, both of whom served as Managers almost from the beginning, did much to secure the success thus early attained.

The death of our friend Hugh McIlvain, makes us feel that we owe a tribute to his memory. He was one of the original Corporators of the College, and from the first organization of the Board, Chairman of the Building and Property Committee. Through his activity and energy the plans for the erection of the College were most ably and efficiently carried out, and its successful arrangement and completion were largely due to his individual exertions, and he always maintained his warm interest in the welfare of the Institution.



The Board of Managers inform the Stockholders that they have elected Sallie M. Ogden to fill the vacancy caused by the resignation of Annie Cooper, and Susan W. Lippincott to fill the vacancy caused by the death of Elizabeth S. Worth.

In conclusion, the Managers congratulate the Stockholders and friends of the College upon the harmonious working of its various departments, and they feel renewed confidence in its progress and success from the experience of the past year.

M. FISHER LONGSTRETH, *Secretary*.

PHILADELPHIA, 12th mo. 1st, 1879.

Upon the close of the reading of the Report, on motion, it was unanimously resolved that the thanks of the Stockholders be tendered to the Managers for their efficient and successful management of the College during the past year.

The Nominating Committee, having withdrawn for a time, submitted the following nominations:

#### TELLERS.

*Philadelphia*:—ISAAC H. CLOTHIER, CHARLES M. BIDDLE.

*New York*:—ISAAC H. COCKS, SAMUEL WILLETS, of L. N.

*Baltimore*:—EPHRAIM LARRABEE, ELI M. LAMB.

#### CLERKS FOR ONE YEAR.

George W. Hancock,

Matilda Garrigues.

#### MANAGERS FOR FOUR YEARS.

John D. Hicks,

Hannah W. Haydock,

Robert Willets,

Anna M. Ferris,

Joseph Wharton,

Mary T. Longstreth,

M. Fisher Longstreth,

Annie Shoemaker.

The above nominations for Tellers being unanimously confirmed, an election by ballot was held, and the Tellers reported the above officers duly elected.

The changes in the constitution proposed at the last Annual Meeting were read and considered; and not receiving the required number of votes, they were lost.

The same changes were then re-proposed, as follows, for consideration next year, and the Clerks were directed to give the required notice to the Stockholders:

1st. In Article III., for "each stockholder having one vote," read, "each stockholder having one vote for each share of stock held by him or her," and omit the following: "Provided, that all questions affecting the purchase of real estate, or location of the College, the removal of the same after location, or the sale of the whole or any

portion of the real estate, shall be decided only at a stated or special meeting, by a majority of the votes cast, each share being entitled to one vote; and no such purchase, sale, or transfer of the real estate shall be made without having been proposed at a stated or special meeting held at least three months previously."

2d. In Article III., for "each stockholder having one vote," read, "each stockholder having one vote for each share of stock held by him or her, to ten shares inclusive, and one vote on each additional five shares so held; provided that no stockholder shall have more than one hundred votes."

Then adjourned.

GEORGE W. HANCOCK, }  
MATILDA GARRIGUES, } *Clerks.*

*Report of the Treasurer of the Committee on Trusts, Endowments and Scholarships.*

CLEMENT M. BIDDLE, *Treasurer, in account with* COMMITTEE ON TRUSTS,  
ENDOWMENTS AND SCHOLARSHIPS OF SWARTHMORE COLLEGE.

INVESTMENT ACCOUNT.

*DR.*

General Endowment Fund.		
Samuel J. Underhill, . . . . .	\$5,000 00	
Isaiah V. Williamson, . . . . .	10,000 00	
Anson Lapham, . . . . .	5,000 00	
	<hr/>	\$20,000 00

Educational Endowment Fund.		
Thomas H. Speakman, . . . . .	\$100 00	
Deborah F. Wharton, . . . . .	5,000 00	
Isaiah V. Williamson, . . . . .	25,000 00	
	<hr/>	30,100 00

Special Scholarship Fund.		
Westbury Quarterly Meeting, . . . . .	5,000 00	
Perpetual Scholarship Fund.		
Anson Lapham, . . . . .	10,000 00	
Special Endowment Fund, . . . . .	10,000 00	
	<hr/>	\$75,100 00

*CR.*

Ground Rents, I. V. W., Philadelphia, . . . . .	10,000 00	
Swarthmore College, . . . . .	25,100 00	
Schuylkill Navigation Co. Bonds, . . . . .	5,000 00	
Property 727 Chestnut Street, $\frac{1}{2}$ Interest, . . . . .	25,000 00	
Mortgage Account, . . . . .	10,000 00	
	<hr/>	\$75,100 00

Twelfth mo. 2d, 1879.

# CHARTER.

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## *An Act to Incorporate Swarthmore College.*

SECTION 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted: That James Martin, John M. Ogden, Ezra Michener, Mahlon K. Taylor, Thomas Ridgway, James Mott, Dillwyn Parrish, William W. Longstreth, William Dorsey, Edward Hoopes, William C. Biddle, Joseph Powell, Joseph Wharton, John Sellers, Clement Biddle, P. P. Sharpless, Edward Parrish, Levi K. Brown, Hugh McIlvain, Franklin Shoemaker and their associates and successors forever be, and they are hereby made and constituted a body politic and corporate, under the corporate title of Swarthmore College, and under that name shall have perpetual succession, and are hereby empowered, and made capable in law, to purchase, take, hold, and enjoy to them and their successors, lands, tenements, and hereditaments, stock, goods, chattels, and effects; *provided*, the clear annual value thereof shall not exceed thirty thousand dollars; and to sell, demise, convey, assure, transfer, and dispose of their estate or interest therein, and also to improve and augment, and apply the same, with the rents, issues, profits, and income thereof, to the purposes of their institution; and the said corporation, by the name aforesaid, shall and may sue and be sued, plead and be impleaded, answer and be answered, defend and be defended, in all courts of law and equity, and shall have power to make, have, and use a common seal, and the same to change, alter, and renew at their pleasure, and also to make and execute such by-laws, ordinances, and regulations, not contrary to the laws and constitution of this Commonwealth, as to them shall seem meet.

SECTION 2. That the said corporation be authorized to establish and maintain a school and college, for the purpose of imparting to persons of both sexes knowledge in the various branches of science, literature, and the arts, and the Board of Managers shall have power to confer upon the graduates of the said college, and upon others, when, by their proficiency in learning, they may be entitled thereto, such degrees as are conferred by other colleges or universities in the United States.

SECTION 3. That the capital stock of the said corporation shall be fifty thousand dollars, divided into two thousand shares of twenty-five dollars each, with the privilege to increase the same from time to time

to a sum not exceeding three hundred thousand dollars, and the said school or college may go into operation when the sum of fifty thousand dollars has been subscribed, and the stock shall be transferable in conformity with the rules and by-laws of the corporation. The meetings shall be held annually : twenty-five stockholders shall form a quorum, and special meetings may be called by the Managers at their discretion, and notice shall be given of the annual and special meetings of the corporators, at least ten days previous to the time at which they are to be held, by advertisement in three daily newspapers, one published in the city of New York, one in the city of Philadelphia and one in the city of Baltimore ; the officers of the corporation shall be two clerks, a treasurer, and thirty-two managers, all of whom shall be members of the religious society of Friends, and shall be chosen by ballot from among the Stockholders at their annual meeting ; but in case of failure to elect the officers at the stated time, those in office shall continue until others are chosen. The clerks shall be *ex-officio* members of the Board of Managers, and eleven members shall constitute a quorum for the transaction of business. The government and direction of the said school and college, the appointment and employment of professors and other officers concerned therewith, and the general management of the affairs of the college, shall be entrusted to the Board of Managers, who shall have power to enact such rules and regulations, not inconsistent with the constitution and amendments thereto, adopted by the corporators, as they shall see fit.

Signed,

HENRY C. JOHNSON,

*Speaker of the House of Representatives.*

JOHN P. PENNEY,

*Speaker of the Senate.*

Approved the first day of April, A. D. 1864.

A. G. CURTIN,

*Governor.*

## A SUPPLEMENT

To "An Act to incorporate Swarthmore College," authorizing an increase of Capital Stock.

SECTION 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same: That the Board of Managers shall consist of thirty-two Managers, who shall choose a President and Secretary from their own number, and said officers shall affix the corporate seal and attest all documents as may be directed by the Board of Managers.

SECTION 2. That the capital stock of said corporation may be increased so as to amount in the whole to five hundred thousand dollars, and the said Managers may borrow money on bonds, to be secured by mortgage on the real estate of the corporation to trustees for the bondholders, to an amount not exceeding one hundred thousand dollars.

SECTION 3. That women, single or married, may be members of said corporation and Managers thereof.

B. B. STRANG,

*Speaker of the House of Representatives.*

CHARLES H. STINSON,

*Speaker of the Senate.*

Approved the fourteenth day of April, Anno Domini one thousand eight hundred and seventy.

JOHN W. GEARY.

OFFICE OF THE SECRETARY OF THE COMMONWEALTH,  
HARRISBURG, April 30, A. D. 1870.

PENNSYLVANIA, ss. :



I DO HEREBY CERTIFY, That the foregoing and annexed is a full, true, and correct copy of the original Act of the General Assembly, entitled "A supplement to 'An act to incorporate Swarthmore College,' authorizing an increase of capital stock," as the same remains on file in this Office.

IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the Seal of the Secretary's Office to be affixed, the day and year above written.

J. M. WEAKLY,

*Deputy Secretary of the Commonwealth.*

# CONSTITUTION

OF

## SWARTHMORE COLLEGE.

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ARTICLE I.—The capital stock shall be fifty thousand dollars, which may be increased from time to time to any sum not exceeding three hundred thousand dollars, to be divided into shares of the value of twenty-five dollars each, transferable on the books of the Association only with the consent of the Board of Managers.

ARTICLE II.—The annual meeting of the Stockholders shall be held on the first Third-day in the Twelfth month, at three o'clock P. M., in the city of Philadelphia. A clerk and assistant clerk, who shall be *ex-officio* members of the Board of Managers, shall be appointed at each annual meeting, who shall make and preserve regular minutes of the proceedings subject to the adoption of the meeting at the time, Special meetings may be called by the clerks, at the written request of any twenty Stockholders.

ARTICLE III.—The management of the institution shall be under the direction of thirty-two managers, sixteen of each sex, who shall be elected at an annual meeting, under the care of three inspectors, to be appointed at the time. Eight of said managers shall be elected for one year, eight for two years, eight for three years, and eight for four years.

The term of service for each manager shall be decided by mutual agreement among themselves, and eight members shall be elected to serve for four years, annually thereafter. They shall have power to fill any vacancy that may occur in their Board. They shall all be Stockholders and members of the Society of Friends, and an equitable proportion of them shall belong to each of the Yearly Meetings of Philadelphia, Baltimore, and New York, and other Yearly Meetings the members of which subscribe to the stock.

The election of Managers shall be by ballot, and votes by proxy shall be received, each Stockholder having one vote; and a majority of votes so cast shall determine the election, and also all other subjects voted upon.

Provided; that all questions affecting the purchase of real estate, or location of the College, the removal of the same after location, or the sale of the whole or any portion of the real estate, shall be decided only at a stated or special meeting, by a majority of the votes cast, each share being entitled to one vote; and no such purchase, sale, or transfer of the real estate shall be made without having been proposed at a stated or special meeting held at least three months previously.

And further provided, that no alteration to this Constitution shall be made except at a stated meeting of the Stockholders, by a vote in its favor, either in person or by proxy, of the majority of all the stock.

Notice of any proposed change in the Constitution shall be given at the annual meeting and decided upon at the next annual meeting; the said proposed change shall be placed in full upon the minutes, and each Stockholder shall be notified thereof.

Should the Stockholders fail to elect at any annual meeting, the managers of the previous year shall continue in office until successors are elected.

ARTICLE IV.—The Board of Managers shall appoint their own officers, and frame by-laws for their government, subject to the approval of the Stockholders.

When the amount of capital stock is subscribed and paid in, they shall provide for the purchase, erection, furnishing, and future management of the College.

No contract for real estate, building, or furnishing the institution shall be entered into unless the money for the same be in the hands of the Treasurer, and they shall at no time incur expenses in its management beyond the available resources of the current six months.

The Treasurer of the College shall collect, receive, and hold the funds, subject to the order of such committees or officers as they may authorize to draw upon him, and they shall audit and settle his accounts at least twice every year.

They shall make full reports of their proceedings to the members at the Annual meeting of the Stockholders, and a printed copy of their report shall be furnished to each of the members.



# BY-LAWS.

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## LAW I.

### MEETINGS.

There shall be five stated meetings of the Board annually; on the second Third-day in Second and Ninth months, on the day preceding the Commencement, on the day preceding and on the adjournment of the Annual meeting of the Stockholders. Special meetings shall be called by the Secretary when requested by five members. Eleven members constitute a quorum.

## LAW II.

### OFFICERS AND COMMITTEES.

A President of the Board of Managers, Secretary, Auditors, Finance Committee, Building Committee, Instruction Committee, Committee on Museum, Committee on Friends' Historical Library, and an Executive Committee, shall be appointed annually at the meeting succeeding the annual meeting of Stockholders; and should none be appointed at that time, those previously appointed shall continue to fulfil the several duties prescribed until others are duly appointed. All the other committees shall be authorized to report to the Executive Committee.

## LAW III.

### THE PRESIDENT.

The President shall preside at the meetings of the Board and decide all questions of order.

## LAW IV.

### THE SECRETARY.

The Secretary shall keep regular minutes of the meetings of the Board, as adopted at the time; shall notify the members of the time

and place of meeting, inform committees of their appointment, and act, under direction of the Board, in all matters pertaining to the office. He shall be *ex-officio* a member of the Executive Committee.

#### LAW V.

##### THE TREASURER.

The Treasurer shall hold the funds belonging to the Corporation, subject to the disposition of the Board; shall sign the certificates of stock, and shall issue these, on demand, to all subscribers who have paid their instalments in full. In the investments of the funds he shall be guided by the advice and direction of the Finance Committee. He shall report to the Board at the stated meeting in the Ninth month.

#### LAW VI.

##### THE FINANCE COMMITTEE.

The Finance Committee shall draw all orders on the Treasurer for expenses authorized by minute of the Board, and the orders shall not be valid without the signatures of at least two of this Committee. They shall also advise with and direct the Treasurer in regard to the investment of the funds of the Corporation.

#### LAW VII.

##### THE AUDITORS.

The Auditors shall audit the accounts of the Treasurer, twice in the year, immediately previous to the time of his reports, to which they shall append the result of their audits.

#### LAW VIII.

##### THE EXECUTIVE COMMITTEE.

This Committee shall consist of sixteen members, who shall have the general supervision of the College, etc., during the recess of the Board of Managers, and, subject to its approval, shall decide upon such appointments of Professors and Teachers as may become necessary.

They shall also appoint such employees as may, in their judgment, be required.

They shall render the Faculty such aid as may be in their power in relation to instruction and discipline, and report their proceedings to each stated meeting of the Board of Managers.

## LAW IX.

## THE FACULTY.

The President, Matron, and such of the resident Professors and others as may be elected by the Board, shall constitute the Faculty, and shall hold regular meetings, arrange the course of study, determine the qualifications for admission into the several departments and classes, and for graduation, decide upon rules of order, and determine all questions pertaining to the discipline or instruction, subject to the approval of the Executive Committee, to whom they shall report monthly.

## LAW X.

## ANNUAL REPORT.

The President and the Executive Committee shall frame the Annual Report to the Stockholders, which shall be submitted to the Board for approval at the meeting immediately preceding the annual meeting.

## LAW XI.

## COMMITTEE ON TRUSTS, ENDOWMENTS AND SCHOLARSHIPS.

The Managers shall appoint five of their number to constitute the Committee on Trusts, Endowments and Scholarships, to hold office three years, or during the pleasure of the Board.

It shall be the duty of the Committee to receive, invest in the name of the College, and hold in their custody all sums of money, stocks, mortgages, and other property that may be given or bequeathed to Swarthmore College for General Endowments, for Special Endowments or for Educational Endowments.

The Board of Managers shall direct the application of the interest of each of these funds: of General Endowments, to the general purposes of the College; of Special Endowments, to the particular purpose for which the Fund was given; and of Educational Endowments, to the aid of those who would otherwise be excluded, by their limited means, from enjoying the advantages of an education at this College.

## SCHOLARSHIPS.

A donation to the College of the sum of five thousand dollars, to be held by this Committee, shall found a scholarship in perpetuity, in the gift of the donor, and of his legal heirs, or of any assignee approved by the Board of Managers.

Nominations under perpetual Scholarships shall be subject to the same limitations and restrictions as are placed on nominations under Scholarships for limited periods.

SCHOLARSHIP FOR TWO LIVES.—Any person giving to the College the sum of Four Thousand dollars, to be held by this Committee, shall have the privilege of nominating, during his or her lifetime, one student, who, when approved, shall be admitted, subject to all the rules and regulations of the College, and shall be entitled to board and tuition without charge.

When from any cause such student's attendance at the College ceases, another may be nominated, and the privilege of nomination shall be extended under such Scholarship to one successor, provided such successor shall be duly appointed by the donor during his or her lifetime.

On the death of the successor, the principal sum of Four Thousand dollars, shall merge into the General Endowment Fund.

The College, however, in all cases of Scholarships, whether perpetual or otherwise, reserves to itself the right at any time to return the principal sum to any donor, or his legal representatives, whose right shall thereupon cease and determine.

This Committee shall make a full report, including an audited statement of investments, and of its Treasurer's account, to the Board of Managers at the meeting preceding the annual meeting of the Stockholders.

The interest is to be paid to the Treasurer of the College as received by this Committee.

## LAW XII.

## ALTERATIONS AND AMENDMENTS.

These By-Laws may be altered or amended at any meeting of the Board next preceding the annual meeting, notice of such change having been given at a previous stated meeting.

# GRADUATES.

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## CLASS OF 1873.

SARAH H. ACTON, A.B.	Salem, N. J.
HELEN MAGILL, Ph. D. (Boston University)	Newnham Hall, Cambridge, Eng.
ELIZABETH C. MILLER, A.B.	Swarthmore College.
ESTHER T. MOORE, A.B.	Swarthmore College.
*MARIA C. (PIERCE) GREEN, A.B.	Swarthmore College.
LOWNDES, TAYLOR, A.B.	Colorado Springs, Col.

## CLASS OF 1874.

ELEN H. (EVANS) PRICE, A.B.	Philadelphia, Pa.
AMY W. (HALL) HICKMAN, A.B.	Street Road, Pa.
*ALFRED T. HAVILAND, B.S.	Millbrook, N. Y.
MARY (HIBBARD) THATCHER, A.B.	Hulmeville, Pa.
HERMAN HOOPES, C.E.	Philadelphia, Pa.
FERRIS W. PRICE, A.B.	Philadelphia, Pa.
ELIZABETH S. (WOOLSTON) COLLINS, A.B.	Bristol, Pa.

## CLASS OF 1875.

JOHN B. BOOTH, A.B.	Chester, Pa.
HELEN T. COMLY, A.B.	Philadelphia, Pa.
FRANKLIN H. CORLIES, B.S.	Philadelphia, Pa.
*HERBERT G. DOW, A.B.	Brooklyn, N. Y.
LIZZIE (HANES) TAYLOR, A.B.	Woodstown, N. J.
EDITH R. (HOOPER) ROBERTS, A.B.	Titusville, Pa.
BARTON HOOPES, JR., B.S.	Philadelphia, Pa.
*OLIVER KEESE, JR., B.S.	Titusville, Pa.
J. REECE LEWIS, B.S.	Media, Pa.
HOWARD W. LIPPINCOTT, A.B.	Philadelphia, Pa.
MARTHA McIVAINE, A.B.	Philadelphia, Pa.
JOHN K. RICHARDS, A.B.	Ironton, Ohio.
WILLIAM H. RIDGWAY, C.E.	Coatesville, Pa.

\*Deceased.

## CLASS OF 1876.

FRANK L. BASSETT, B.S.	Philadelphia, Pa.
ARTHUR W. BRADLEY, A.B.	Philadelphia, Pa.
FRANCES LINTON, A.B.	West Chester, Pa.
ELIZABETH J. LONGSTRETH, A.B.	Sharon Hill, Pa.
JAMES T. McCLURE, B.S.	Pittsburg, Pa.
EMMA McILVAINE, A.B.	Philadelphia, Pa.
EDWIN MITCHELL, JR., A.B.	Ecole de Médecine, Paris, France.
ISAAC G. SMEDLEY, B.S.	Philadelphia, Pa.
HERBERT W. SMYTH, A.B.	Wilmington, Del.
MARY WILLETS, A.B.	Maiden Creek, Pa.
WILLIAM P. WORTH, B.S.	Coatesville, Pa.

## CLASS OF 1877.

JOSEPH T. BUNTING, B.S.	Philadelphia, Pa.
NORMAN B. CORSON, A.B.	Norristown, Pa.
EUDORA MAGILL, A.B.	Mt. Holly, N. J.
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