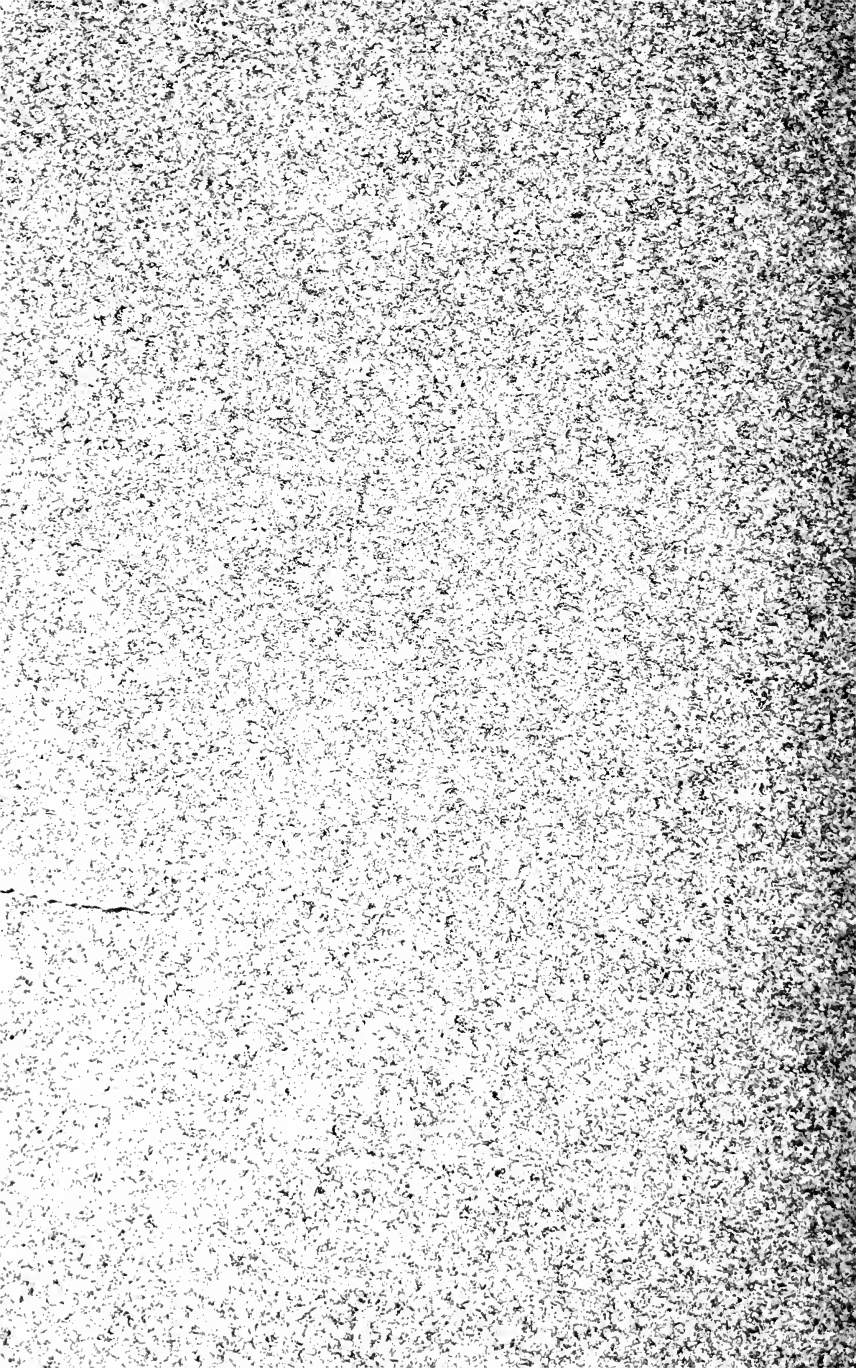


Wellesley

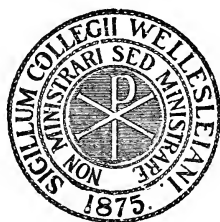
WELLESLEY COLLEGE
CALENDAR



1908-1909



WELLESLEY COLLEGE CALENDAR



1908-1909

PRESS OF FRANK WOOD, BOSTON

CORRESPONDENCE

All inquiries regarding admission (including admission to graduate courses) should be addressed to Miss ELLEN F. PENDLETON, Dean of the College.

Applications for general information should be addressed to Miss MARY CASWELL. As Secretary of the Teachers' Registry, Miss CASWELL is also prepared to furnish full and confidential information in regard to the qualifications, character, and experience of teachers educated at Wellesley. Former students of the College who wish situations as teachers have the aid of the Teachers' Registry.

Applications for pecuniary assistance (see p. 144) should be made by letter addressed to the Secretary of the Students' Aid Society, Wellesley, Mass.

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1908

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CALENDAR

The academic year consists of thirty-four weeks exclusive of vacations and of the week devoted to entrance examinations. Commencement Day falls on the Tuesday preceding the last Wednesday in June. The academic year begins on the fourteenth Tuesday after Commencement.

1908.

Examinations September 29–October 2.
College dormitories open . . . 9 A. M. Friday, October 2.
Registration closes 1 P. M. Saturday, October 3.
Academic year begins Tuesday, October 6.
 Recess from 12.30 P. M. Wednesday, November 25, until 12.30
 P. M. Friday, November 27.
 Recess from 12.30 P. M. Thursday, December 17, 1908, until
 1 P. M. Wednesday, January 6, 1909.

1909.

Registration closes for all students at 1 P. M. Wednesday, January 6.
Second Semester begins Monday, February 22.
 Recess from 12.30 P. M. Friday, April 2, until 1 P. M. Tuesday,
 April 13.
Registration closes for all students at 1 P. M. Tuesday, April 13.
COMMENCEMENT Tuesday, June 29.
ALUMNÆ DAY Wednesday, June 30.
Examinations September 28–October 1.
College dormitories open . . . 9 A. M. Friday, October 1.
Registration closes 1 P. M. Saturday, October 2.
Academic year begins Tuesday, October 5.
 Recess from 12.30 P. M. Wednesday, November 24, until 12.30
 P. M. Friday, November 26.
 Recess from 12.30 P. M. Thursday, December 16, 1909, until
 1 P. M. Wednesday, January 5, 1910.

1910.

Registration closes for all students at 1 P. M. Wednesday, January 5.
Second Semester begins Monday, February 21.
 Recess from 12.30 P. M. Thursday, March 24, until 1 P. M. Tuesday,
 April 5.
Registration closes for all students at 1 P. M. Tuesday, April 5.
COMMENCEMENT Tuesday, June 28.
ALUMNÆ DAY Wednesday, June 29.

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- EMMA CULROSS GIBBONS, PH.B.,
Superintendent of Beebe Hall.
- MABEL WOLCOTT BROWN, B.A.,
Superintendent of Cazenove Hall.
- ELSIE PRESTON LEONARD, B.A.,
Superintendent of Wilder Hall.
- FLORENCE EVELYN MCGOWAN,
Superintendent of Domestic Service in College Hall.
-
- EMERSON OREN PERKINS,
Superintendent of the College Plant.
- FREDERICK DUTTON WOODS, B.S.,
Superintendent of Grounds.

STANDING COMMITTEES

BOARD OF EXAMINERS.—Professors Chapin (*Chairman*), Bates, Burrell, Colin, Hart, Hawes, Kendall, Müller, Roberts, Whiting; the President and the Dean of the College *ex officio*.

COMMITTEE ON GRADUATE INSTRUCTION.—Professor Calkins, Associate Professor Sherwood (*Chairman*); Professor Müller, Associate Professor Merrill, Professors Hawes, Roberts, the Dean *ex officio*.

LIBRARY COMMITTEE.—Miss Pierce (*Chairman*); Professor Kendall; Associate Professors Jackson, Walton, Hubbard, Gamble; the President, Librarian Emeritus, and Librarian *ex officio*.

COMMITTEE ON CONSTITUTIONS.—Associate Professors Edwards (*Chairman*), Perry, Lockwood.

COMMITTEE ON ADMISSION TO ADVANCED STANDING.—Professor Kendall (*Chairman*); Associate Professors Waite, Edwards; Professor Burrell, the Dean *ex officio*.

COMMITTEE ON INSTRUCTION.—Dean Pendleton (*Chairman ex officio*), Professors Burrell, Hart, Hawes, Müller, Roberts.

WELLESLEY COLLEGE

Wellesley, Massachusetts

FOUNDATION AND PURPOSE

WELLESLEY COLLEGE was established for the purpose of furnishing to young women who desire to obtain a liberal education such advantages and facilities as are enjoyed in institutions of the highest grade. The first building of the College, erected and equipped under the supervision and through the personal means of the founder, was opened to students in 1875, with the announced purpose "of giving to young women opportunities for education equivalent to those usually provided in colleges for young men." Throughout his work the founder aimed to put into visible form his ideal of the higher education for women, "the supreme development and unfolding of every power and faculty."

By the charter, granted by the Commonwealth of Massachusetts, "the corporation of Wellesley College is authorized to grant such honorary testimonials, and confer such honors, degrees, and diplomas, as are granted or conferred by any University, College, or Seminary of learning in this Commonwealth; and the diplomas so granted shall entitle the possessors to the immunities and privileges allowed, by usage or statute, to the possessors of like diplomas from any University, College, or Seminary of learning in this Commonwealth."

In accordance with the spirit of the founder, the College is undenominational, but distinctively Christian in its influence, discipline, and instruction.

The members of the College meet daily for morning prayers in the beautiful chapel presented in 1899 by Miss Elizabeth G.

Houghton and Mr. Clement S. Houghton as a memorial to their father. Services on Sunday are conducted in this chapel by preachers of different denominations. At all these services and at vespers on Sunday, the singing is led by a trained choir of students under the direction of the professor of music.

The Wellesley College Christian Association, organized to promote religious life, to arouse an intelligent interest in social reforms, and to foster interest in home and foreign missions, meets weekly for prayer and religious instruction in the chapel given by the founder of the College.

The department of Biblical History affords the systematic study of the Bible required of all students.

ADMISSION

Applications for admission should be made upon forms which will be furnished by the Dean on request. An application fee of ten dollars is required from all candidates for admission, and no application is recorded until this fee is received (see page 136). Rooms in college houses are assigned to new students in the order of application for admission to College. It is desirable, therefore, that applications should be made several years in advance. Moreover, since the number of new students admitted is limited by the capacity of lecture rooms, for the past few years it has been found necessary early in the year to close the application list for the following September. Candidates, therefore, who delay their applications beyond the first of January of the year in which they propose to enter are liable to find the application list closed.

ADMISSION TO THE FRESHMAN CLASS

Students are admitted either by examination (see pages 27 to 29) or by certificate (see pages 29 to 31).

Every candidate for a degree must offer for admission to the freshman class subjects amounting to fifteen "points." The points assigned to the subjects indicate the number of years, with five recitations a week, which will normally be required in the secondary school to make adequate preparation.

Every candidate must offer :—

English	three points.
History	one point.
Mathematics	three points.
Latin	four points.
A Second Language	three points.
Greek or French or German (maximum).	
A Third Language	one point.
Greek or French or German (minimum).	
or	
A Science :	
Chemistry or Physics	one point

For full details regarding requirements in these subjects, see pages 31 to 42.

The subjects prescribed for admission are divided into three groups, A, B, C, as follows:—

Group A. English *a*, History, Plane Geometry, Cæsar, Cicero, Vergil and Prosody, Greek Grammar, Anabasis, Iliad, German maximum requirement (except prose composition and the use of the spoken language), French maximum requirement (except prose composition and the use of the spoken language).

Group B. Chemistry and Physics.

Group C. English *b* (including Composition), Algebra, Latin Prose Composition, Greek Prose Composition, French (prose composition and the use of the spoken language of the maximum requirement), German (prose composition and the use of the spoken language of the maximum requirement), Greek, French, and German minimum requirements.

Final examinations in subjects of *Group A* may be taken *at any time* during the college preparatory course. Final examinations in subjects of *Group B* must be taken not earlier than *fifteen months before entrance* in September. Final examinations in subjects of *Group C* must be taken *not earlier than during the school year immediately preceding admission to college*.

☞ The above applies to final examinations held by principals of schools, preliminary to granting certificates, as well as to the admission examinations.

Candidates will not be admitted if conditioned in two, or if heavily conditioned in one, of the following subjects: Latin, Greek, French, German, Mathematics, Chemistry, Physics.

A candidate for admission must be at least sixteen years of age, and must present satisfactory evidence of good moral character and good health. A blank form for the certificate of health will be sent to all registered applicants for admission.

The student who has met all entrance requirements is qualified for immediate matriculation for the Baccalaureate degree in Arts. All communications concerning admission should be addressed to the Dean of Wellesley College, Wellesley, Mass.

ADMISSION BY EXAMINATION

JUNE EXAMINATIONS

Candidates who propose to enter by examination must take all examinations in June, except such as, by permission, may be postponed until September.

The entrance examinations conducted at Wellesley College in June are the examinations of the College Entrance Examination Board, of which Wellesley College is a member. These examinations will be held June 14-19, 1909.

In order to meet the requirements for admission to Wellesley College, candidates must pass examinations in the following subjects, as defined in the Documents issued by this Board:—

English : a, b.

History * : a, or c, or d.

Mathematics : a (i, ii), c.

Latin : l, b, c, m, and dq.

Maximum Second Language :

Greek : a (i), f, b, g, and ch ;

or

French : a, b ;

or

German : a, b.

Minimum Third Language or Science :

French : a ;

or

German : a ;

or

Chemistry ;

or

Physics.

All applications for examination, and all other inquiries, must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York,

* Attention is called to the fact that the Board holds no separate examinations in Greek and Roman History. Applicants proposing to offer either Greek or Roman History alone should apply to the College for permission to postpone this examination until September.

N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

A list of places at which the examinations are to be held in June, 1909, will be published about March 1st. In order that they may receive proper consideration, requests that the examinations be held at particular points should be transmitted to the Secretary of the Board *not later than February 1st.*

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Secretary on or before Monday, May 31, 1909; applications for admission to examination elsewhere in the United States or in Canada must be received on or before Monday, May 24, 1909; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 10, 1909.

Applications received later than the dates named will be accepted when it is possible to arrange for the examination of the candidates concerned, but only upon payment of five dollars in addition to the usual examination fee. Candidates filing belated applications do so at their own risk.

The examination fee is five dollars for all candidates examined at points in the United States and Canada, and fifteen dollars for all candidates examined at points outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

SEPTEMBER EXAMINATIONS

Admission examinations are offered by the College in September as heretofore. In general these examinations are open to those candidates only who propose to enter the current September.

SCHEDULE OF EXAMINATIONS, SEPTEMBER, 1909

TUESDAY, SEPTEMBER 28.

8.30-10.00 A. M.	Greek Grammar.
10.15-11.45	Greek Prose Composition.
8.30-12.00	German (maximum).
2.00- 3.00 P. M.	Anabasis.
3.00- 4.30	Iliad.
2.00- 5.30	French (maximum).

SCHEDULE OF EXAMINATIONS (Continued)**WEDNESDAY, SEPTEMBER 29.**

8.30-10.30 A. M.	Algebra.
10.45-12.30	Plane Geometry.
1.30- 3.15 P. M.	Chemistry, Physics.
3.30- 5.30	History (American, English, Greek, Roman, Greek and Roman).

THURSDAY, SEPTEMBER 30.

8.30-10.00 A. M.	Cicero.
10.15-11.45	Latin Prose Composition.
2.00- 3.00 P. M.	Cæsar.
3.00- 4.30	Vergil.

FRIDAY, OCTOBER 1.

8.30-12.30 A. M.	English Composition and Literature.
2.00- 4.30 P. M.	French (minimum).
"	German (minimum).
"	Greek (minimum).

ADMISSION BY CERTIFICATE

Any school whose equipment and curriculum enable it to prepare students for the freshman class, upon complying with the regulations stated below, may receive the right to give a certificate of scholarship which shall exempt the candidate from college examinations for admission in the subjects satisfactorily covered by the certificate.

RIGHT OF CERTIFICATION

Any school in New England desiring the right of certification should apply to the Secretary of the New England College Entrance Certificate Board, Prof. Nathaniel F. Davis, 159 Brown Street, Providence, R. I., before April first of the year in which it is proposed to make use of the privilege.

Any school outside New England desiring the right of certification should apply to the Dean of the College between October first and March first of any year.

In response to this application a blank form will be sent, which the principal is requested to fill out and return, sending

with it a catalogue or circular of the school. *Specimen laboratory notebooks* must be submitted before science courses will be approved.

During the interval between March first and October first applications for the right of certification will not be considered by the Board of Examiners.

In case the credentials of the school are approved by the Board of Examiners, the right of certification is given for three years. At the expiration of this time the renewal of the right will depend upon the number of students sent during the three years either to Wellesley College or to some other college of equal rank, and upon the character of the preparation of these students as shown by their college record. The right of certification may be withdrawn at any time from a school which fails to give complete and satisfactory preparation.

CERTIFICATE OF SCHOLARSHIP

1. After a school has received the right of certification, the principal must present, upon a blank form furnished by the College, a certificate of scholarship for each candidate. Certificate blanks will be sent about April first to the principals of all accredited schools having candidates registered for the current year.

2. These certificates and laboratory notebooks must be forwarded in time to be received at the College *by July first*. On or before August first each candidate will be informed of the decision with regard to her certificate. Certificates received *after July first* may be refused, and in any case the decision will be necessarily delayed to the great disadvantage of the candidate.

3. All certificates must show distinctly that the candidate has met in detail the requirements as published in the current Calendar. Whenever any variation has been allowed, the work done must be specifically stated and offered as an equivalent, to be accepted or refused. *Attention is called to the division of the admission subjects into Groups A, B, C,*

stated on page 26, and to the fact that final examinations in the subjects of Groups B and C must be taken within a specified time of admission.

4. All certificates must be signed by the principal of the school, and countersigned by the assistants who have instructed the candidate.

5. Partial certificates from two accredited schools will not be accepted for the admission of a candidate, unless permission has been obtained from the Board of Examiners.

6. All work completed after July first must be tested by examination at the College in September. Certificates for such work will not be accepted.

7. The candidate who has received the certificate of a principal will not be exempt from the examinations for admission in any particular subject, unless her certificate shows that she has satisfactorily accomplished the full amount of work required in that subject. Any student whose certificate is found on July first to be seriously deficient, may be refused the privilege of taking examination the following September.

REQUIREMENTS FOR ADMISSION

The number inclosed in parentheses following the subject indicates the number of points assigned to that subject, that is, the number of years, with five recitations a week which will normally be required in the secondary school for adequate preparation in the subject. If the certificate of a candidate shows that the time given to any subject is less than that indicated as necessary by the number of points an examination may be required.

ENGLISH (3)

Literature.

a. Reading and Practice.

Certain books are set for reading. The candidate is required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors.

The books set for this part of the examination are :—

In 1909, 1910, 1911, and 1912; Group I (two to be selected). Shakespeare's *As You Like It*, *Henry V*, *Julius Cæsar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected). Bacon's *Essays*; Bunyan's *The Pilgrim's Progress*, Part I.; the *Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III (one to be selected). Chaucer's *Prologue*; Spenser's *Færie Queene* (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (first series), Books II. and III. with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected). Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected). Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc*, and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected). Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa*, and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (first series), Book IV., with special attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippides*.

b. Study and Practice.

This part of the examination presupposes the thorough study of each of the works named on the following page. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination are :—

In 1909, 1910, 1911, and 1912; Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

NOTE.—In the Wellesley examination it is taken for granted that candidates will have learned by heart illustrative passages from all poems read. Books set in the requirements of previous years are satisfactory substitutes.

Composition.—To test the candidate's command of clear and accurate English, she will be required to write brief compositions upon one or more topics drawn from the assigned readings in *b*, as indicated. The topics will call for only a general knowledge of the substance of the books. After 1910 the candidate will also be required to write upon one or more subjects of ordinary experience or knowledge, not taken from the prescribed books.

To meet the requirement in *Composition* :—

1. There should be practice in writing equivalent to fortnightly themes the first two years, and weekly themes the last two years of the preparatory course. The subjects for themes should not be drawn chiefly from books. The student should be led, especially for short themes, to choose her own subjects, based on daily experience and observation. She must be able to spell, capitalize and punctuate correctly. She must have a practical knowledge of the essentials of English grammar, including ordinary grammatical terminology, inflection, syntax, the use of phrases and clauses.

2. The study of the theory of Rhetoric should be distinctly subordinate to the needs of the student in composition, and limited to the broad essentials. She should study the structure of sentence and paragraph; she should analyze and make outlines of essays with a view to understanding the orderly development of thought; she should be taught the principles of unity, coherence, and emphasis, not in the abstract but as exemplified in her own work and the work of others; she should be taught thoroughly the common idiom of the language. The following books are recommended :—

Scott and Denney's *Composition-Rhetoric*; Carpenter's *Exercises*

in *Rhetoric and Composition* (High School Course); Robbin's and Perkins' *Introduction to the Study of Rhetoric* supplemented by Herrick and Damon's *Composition and Rhetoric*; or A. S. Hill's *Foundations of Rhetoric*; or Webster's *Literature and Composition*.

The final examination in English *b* (including Composition) must be taken not earlier than during the school year immediately preceding admission to College.

HISTORY (1)

A full year course in *one* of the following subjects:—

(1) Ancient History, including a brief introductory study of the earlier nations, but with special emphasis on Greek History to the death of Alexander, and on Roman History to the accession of Commodus.

(2) English History, with due regard to social and political development.

(3) American History, with the elements of Civil Government.

* (4) The History of Greece to the death of Alexander, with due reference to Greek life, literature, and art.

* (5) The History of Rome, the Republic and Empire, to the accession of Commodus.

Candidates are advised to offer the course in Ancient History as a part of their preparation.

In the subject chosen, the student should acquire accurate knowledge of the history as presented in a standard text-book of not less than 300 pages, and should read such fuller authorities as may be available, in amount not less than 500 pages. Some practice in drawing maps to illustrate territorial changes, in making digests of lectures and reading, and in preparing verbal or written reports on subjects assigned for individual investigation is essential to successful work.

Students presenting themselves for examination are expected to bring notebooks, maps, and essays, that may serve as supplementary evidence of the character of their preparation.

* After September, 1910, Greek History only or Roman History only will not be accepted as meeting the entrance requirement.

MATHEMATICS (3)

Algebra.—Factors, Common Divisors and Multiples, Ratio and Proportion, Theory of Exponents including Imaginaries, Radicals and Equations involving Radicals, Inequalities, Quadratic Equations (including the theory), Binomial Theorem, Arithmetic and Geometric Progressions.

The final examination in Algebra must be taken not earlier than during the school year immediately preceding admission to college.

Plane Geometry.—As found in Chauvenet, or its equivalent.

Deficiency in preparation usually results from one or more of the following causes: the use of text-books which are too elementary, insufficient time spent in preparation, neglect of exercises in original demonstration in Geometry, and of reviews in both Algebra and Geometry. One and one-third years, with daily recitations, is the shortest time in which satisfactory preparation can be made in Algebra, and one year with daily recitations is the minimum in Geometry. It is strongly urged that there be constant exercise in original demonstration in Geometry, with frequent written examinations in both Algebra and Geometry, the problems proposed being drawn from other sources than the text-books.

LATIN (4)

Grammar, including Prosody.

Prose Composition.

The study of composition should form a part of each year's work. The aim of this study should be an accurate knowledge of the main principles of Latin syntax, and flexibility in the use of both English and Latin idiom. It is suggested that these ends may best be secured by the completion of a standard text-book which gives a systematic study of syntax, together with the writing of such connected passages based on Cæsar and Cicero as will emphasize the differences between English and Latin idiom.

The final examination in Prose Composition must be taken not earlier than during the school year immediately preceding admission to college.

Cæsar, *Gallic War*, four books.

Cicero, seven orations, or six if the *Manilian Law* be one.

Vergil, *Æneid*, six books.

Candidates must be prepared to translate at sight Latin of average difficulty, and to write in Latin connected passages based upon Cæsar and Cicero.

Equivalents are accepted, but verse is not accepted in place of prose, nor anything instead of the required translation of English into Latin.

The teachers of Latin in the preparatory schools are urged to insist upon the use of good English in translation.

The study of Greek is strongly recommended to candidates who plan to elect courses in Latin in college.

Ability to read at sight easy French or German prose is of great advantage to all classical students.

GREEK (1 or 3)

Maximum Requirement (3)

Grammar. *The etymology must be thoroughly mastered.*

Prose Composition. At least forty written exercises based upon the Greek of Xenophon, including connected passages and accompanied by a systematic study of the main principles of syntax.

The final examination in Prose Composition must be taken not earlier than during the school year immediately preceding admission to college.

Xenophon, *Anabasis*, three books.

Homer, *Iliad*, three books, with scansion.

Candidates must be prepared to translate at sight both Attic and Homeric Greek of average difficulty, and to write in Greek a connected passage based upon Xenophon.

Particular attention should be given to the correct writing of Greek with the accents, to exercises both oral and written, and to the use of the blackboard for constant practice upon forms and constructions.

The teachers of Greek in the preparatory schools are urged to insist upon the use of good English in translation.

Ability to read at sight easy French or German prose is of great advantage to all classical students.

Minimum Requirement (1)

Systematic study of etymology from a standard grammar in connection with a book of First Lessons. *Anabasis*, about thirty pages. Practice in writing Greek.

This preparation admits the student to course 14 in College, and these two courses complete the preparation for course 1 (see page 90).

The final examination in minimum Greek must be taken not earlier than during the school year immediately preceding admission to college.

FRENCH (1 or 3)

Minimum Requirement (1)

The preparation for this requirement should comprise :—

(1) Careful drill in pronunciation.

(2) The rudiments of grammar, including the inflection of the regular and the more common irregular verbs, of nouns, adjectives, participles, and pronouns; the simpler uses of the conditional and subjunctive, the elementary rules in syntax, and their application in the construction of sentences.

(3) Abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression. These exercises should include frequent practice in French narrative, with a due regard to the idiomatic use of tenses such as the *passé indéfini*, the *imparfait*, the *conditionnel*.

(4) Writing French from dictation.

(5) The reading of 300 duodecimo pages of graduated texts from at least three different authors, with constant practice in translating into French easy variations upon the texts read, and in reproducing from memory sentences previously read.

(6) Frequent abstracts, sometimes oral and sometimes written, of portions of the text already read.

(7) Training from the outset to understand French, both when spoken and read aloud, and to answer ordinary questions in that language.


The final examination in minimum French must be taken not earlier than during the school year immediately preceding admission to college.

Maximum Requirement (3)

To meet the maximum requirement in French, the candidate must present *the whole minimum requirement* as given above and, *in addition*, the following:—

- (1) A thorough, practical knowledge of grammar.
- (2) Ability to translate connected paragraphs, based on standard authors, into clear, idiomatic French.
- (3) Ability to read any ordinary French whatsoever.
- (4) Ability to understand a lecture given in French.
- (5) Ability to speak correctly and idiomatically in French upon simple topics.
- (6) The reading of a thousand duodecimo pages (that is, seven hundred pages in addition to the amount prescribed for the minimum requirement) from at least four authors, as indicated below.

The final examination in maximum French must be taken not earlier than during the school year immediately preceding admission to college.

 These results may be obtained by an exhaustive study of any good grammar, with constant practical tests; by translation from English into French; by paraphrasing texts read, or, by direct free composition in French, together with critical reading of texts. It is particularly urged that these texts be chosen from nineteenth century writers of prose, verse, and drama, and if possible from more than four authors.

In order to secure the desired results, the main emphasis should be laid on the correct daily use of the spoken language in the class room, on the correct and intelligent reading of French (apart from translation) and on prose composition, including the writing of short themes in French.

The texts suggestive for reading are:—

(1) For minimum requirement: Laboulaye: *Contes bleus*; Daudet: *Trois contes choisis*; France: *Abeille*; Malot: *Sans Famille*; de la Brète: *Mon Oncle et Mon Curé*; Enault: *Le Chien du Capitaine*; Legouvé et Labiche: *La Cigale chez les Fourmis*.

(2) For maximum requirement: Lamartine: *Scènes de la Révolution française*; Vigny: *La Canne de Jonc*; Daudet: *Choix d'Extraits*, or, *Le Petit Chose*; Maupassant: *Huit Contes Choisis*; Renan: *Souvenirs d'Enfance et de Jeunesse*; About: *Le Roi des Montagnes*; Balzac: *Le Curé de Tours*; Colin: *Contes et Saynètes* (Ginn & Co.); Colin: *Advanced Sight Translation*; Sandeau: *Mlle. de la Seiglière*; Scribe et Legouvé: *Bataille de Dames*; Augier: *Le Gendre de M. Poirier*. The editions recommended are those published by D. C. Heath & Co., except *Contes et Saynètes*.

GERMAN (1 or 3)

Minimum Requirement (1)

The preparation for this requirement should comprise:—

(1) A distinct German pronunciation which should be acquired at the outset by a drill in phonetics.

(2) Drill upon the rudiments of grammar; that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, of the model auxiliary, and of the elementary rules of syntax and word order. This drill upon the rudiments of grammar should be directed to the end of enabling the pupil (1) to use his knowledge with facility in the formation of sentences, and (2) to state his knowledge correctly in the technical language of grammar.

(3) Abundant easy exercises designed not only to fix in

mind the forms and principles of grammar, but also to cultivate readiness in the oral and written reproduction of natural forms of expression. These exercises should include practice in the translation into German of easy variations upon the matter read.

(4) Mastery of a vocabulary sufficient to understand and answer in German, simple questions upon the texts read.

(5) The reading of about 200 pages of graduated texts.

(6) Ability to read or write German script. This is not an absolute requirement, but students are strongly advised to become familiar with the German script at the outset.

The final examination in minimum German must be taken not earlier than during the school year immediately preceding admission to college.

Maximum Requirement (3)

To meet the maximum requirement in German the candidate must present *the whole minimum requirement* as given above, *and in addition* the following:—

(1) An accurate knowledge of more advanced grammar, *i. e.*, of the less usual strong verbs, the principal uses of prepositions and conjunctions, the elements of word formation, the essentials of German syntax, the uses of modal auxiliaries, of the subjunctive and infinitive moods.

(2) Ability to speak correctly and idiomatically in German upon simple topics, and to understand the German spoken in the class room.

(3) Proficiency in paraphrasing, in *freie Reproduktion*, in writing of themes based on the works read.

(4) Ability to translate offhand simple texts, especially from English into German.

(5) The reading of at least seven hundred pages of classical and contemporaneous authors (that is, five hundred in addition to the amount for the minimum requirement).

(6) Knowledge of a number of choice lyric poems to be selected from the Volkslieder and from Goethe's lyrics especially.

The final examination in maximum German must be taken not earlier than during the school year immediately preceding admission to college.

☞ The desired results are *not* obtained if the main emphasis in the work is laid on translation from German into English instead of emphasizing the use of the spoken language in the classroom, prose composition, and *freie Reproduktion*.

CHEMISTRY (1)

The requirement is met by the course outlined in the Report of the College Entrance Examination Board, *Document No. 35 or 40*.

The student should perform experiments in the laboratory to illustrate the properties of the most important elements, both metallic and non-metallic, and their compounds, and it is strongly recommended that a few of these experiments should be of a quantitative nature.

In addition to an examination or certificate of examination, the student will be required to present notebooks of laboratory work. These notebooks must bear the endorsement of the teacher, certifying that the notes are a true record of the student's work, and must be presented with the certificate on or before July 1st, or at the time of the examination. In case the notebook is lacking or inadequate, a laboratory test will be given.

The final examination in Chemistry must be taken not earlier than fifteen months before entrance in September, *i. e.*, for candidates entering in September, 1909, not earlier than June, 1908.

PHYSICS (1)

The requirement is met by the course outlined in the Report of the College Entrance Examination Board, *Document No. 35 or 40*. In addition to an examination, or a certificate

of examination, the student will be required to present notebooks of laboratory work. These notebooks must be *indexed* and bear the endorsement of the teacher, certifying that the notes are a true record of the student's work, and they must be presented with the certificate on or before July 1st, or at the time of the examination.

The final examination in Physics must be taken not earlier than fifteen months before entrance in September, *i. e.*, for candidates entering in September, 1909, not earlier than June, 1908.

ADMISSION TO ADVANCED STANDING

Candidates for advanced standing must fulfill the requirements for admission to the freshman class, and must also be prepared to be examined in the required studies previously pursued by the class which they wish to join, and in a sufficient number of electives to give full standing with that class.

Such candidates, if they come from other colleges, may present certificates of college work, but should clearly understand that these do not necessarily exempt them from examinations.

Each candidate should apply for a statement of the credentials which she will need to present.

Candidates for advanced standing whose credentials admit them *to junior or higher rank*, will take precedence of candidates for the freshman class in the assignment of rooms.

All correspondence should be addressed to the Dean of the College.

ADMISSION OF STUDENTS NOT CANDIDATES FOR A DEGREE

Opportunities for special study are offered to students who are not candidates for a degree, but are qualified to undertake college work.

Applicants who give satisfactory evidence of ability to pursue advanced courses of study may be admitted at the discretion of the Board of Examiners, provided that they satisfy the requirements of the departments which they propose to enter. It will be noted that opportunities of prosecuting work along

special lines are thus open to persons of experience and success in teaching who possess the requisite qualifications for admission to college classes.

Applicants of less maturity and acquirement are not ordinarily admitted, but if such desire admission they must expect to meet, by examination or by certificate from an accredited school, the requirements prescribed for admission to the freshman class, or a full equivalent for them, and to satisfy such additional requirements as are prescribed by the departments which they propose to enter.

All courses, graduate as well as undergraduate, are open to special students, subject to the conditions stated by the various departments; but every such student is expected to choose a primary subject to which she should devote the greater part of her time. A student who creditably completes a prescribed group of courses will be granted a certificate.

As the capacity of halls of residence is not sufficient for candidates for degrees, special students cannot be lodged in the college buildings. Comfortable homes may be found in the village at about the same expense as in college houses.

All correspondence should be addressed to the Dean of the College.

COURSES OF INSTRUCTION

The following Courses of Instruction are offered by the several departments. The College reserves the right to withdraw the offer of any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. The Roman numeral following the title of a course indicates the grade to which it belongs.

ART

PROFESSOR: ALICE VAN VECHTEN BROWN.

INSTRUCTORS: † EDITH ROSE ABBOT,
ELIZA JACOBUS NEWKIRK, M.A.,
EBEN FARRINGTON COMINS,
ELIZABETH MANNING GARDINER, M.A.

ASSISTANT: MARION ELIZABETH FENTON, B.A.

CURATOR: NANCY MAY POND, B.S.; B.L.S.

ASSISTANT TO THE CURATOR: ELOISE MARION HOLTON.

1. History of Architecture. From the Classic Period through the Renaissance. II.

Open to students who have completed either courses 12 or 13. Three hours a week for a year.

Miss Newkirk.

The aim of this course is to give a general view of the development of styles and a thorough understanding of their essential elements, both constructive and decorative.

First semester: Introduction to the subject and history of Architecture from the Classic to the Gothic periods. Second semester: Architecture of the Gothic and Renaissance periods.

Text-book: *History of Architecture*, by A. D. F. Hamlin.

2. Outline History of Greek Sculpture. II.

Open to students who have completed either course 12 or 13. Three hours a week for a year.

Miss Gardiner.

Text-book: *Handbook of Greek Sculpture*, by Ernest A. Gardner. In this course the great periods will be the main subject of study, and more stress will be laid on the spirit of Greek art than upon archæological details.

† Absent on leave.

3. History of Italian Painting through the Fifteenth Century. II.

Open to students who have completed either course 12 or 13. Three hours a week for a year.

Miss Gardiner.

The course for the year 1908-1909 will lay special emphasis on the qualities of composition and the analysis of individual paintings for the development of artistic appreciation.

Subject: As introduction, Early Christian and Byzantine Art; schools of the thirteenth and fourteenth centuries; Renaissance Movement from Masaccio to its culmination. Schools of Siena, Umbria, and Venice through the fifteenth century.

Syllabus: *Outline of Italian Painting through the Fifteenth Century*, by William Rankin.

4. Certain phases of Italian Renaissance Architecture. III.

Open to students who have completed course 1. Three hours a week for a year.

Miss Newkirk.

The aim of this course is to offer more detailed study of a special period, and to give training in the direction of research work.

First semester: Introductory study of the great domical buildings of the Classic and Byzantine styles, and detailed work on the domical churches of the Italian Renaissance. Second semester: Palace and Villa Architecture of the Renaissance period in Italy.

* 7. History of Greek Sculpture. Seminary. III.

Open to graduates and seniors who have completed course 2 or its equivalent. Three hours a week for a year.

In this course one limited period of Greek sculpture will be carefully studied.

All must read in preparation *Handbook of Greek Sculpture*, by Ernest A. Gardner.

* Not offered in 1908-1909.

10. History of Italian Painting during the High Renaissance. III.

Open to students who have completed course 3. Three hours a week for a year.

Professor Brown.

In this course critical study will be given to the position and quality of the following artists, Leonardo, Michelangelo, Raphael, Correggio, Giorgione, Titian, Tintoretto, and Veronese. Critical and artistic study of photographs is required, and an understanding of the methods used by Morelli, Crowe and Cavalcaselle, Berenson, and other critics.

§ 12. Elementary Course. I.

Open to freshmen only. Three hours a week for a year. No prerequisites.

Miss Newkirk, Miss Fenton.

Designed for freshmen who enter college with the intention of specializing in Art. This course is a combination of history and practice, and will include an introductory study of the History of Architecture, Sculpture, and Painting, illustrated by sketching from photographs, and by practical studio work in drawing, composition and modeling in clay. It will be conducted by the scientific method of laboratory observation and practice. No other work may be substituted for the laboratory practice.

§ 13. Introductory Course. I.

Open to sophomores, juniors, and seniors. Three hours a week for a year. No prerequisites.

Professor Brown.

This course furnishes an outline of the general development of styles in Architecture, Sculpture, and Painting.

This course is complete in itself, but it may be taken in preparation for other courses. Its method of constant laboratory work leads directly into the methods of the more advanced courses in the department. This course is not open to students who have taken or are taking any other history course in the Art Department.

§ Either Art 12 or Art 13 is a prerequisite to further election for all students.

17. Outline Course in Mediæval and Renaissance Sculpture.
II.

Open to students who have completed or are taking any three-hour course of Grade II in the department. One hour a week for a year.

Miss Gardiner.

5. Studio Practice. I.

Open to sophomores, juniors, and seniors. No prerequisites. One hour a week for a year. (Three hours of studio practice.)

Miss Newkirk, Miss Fenton.

Drawing, sketching, modeling.

14. Studio Practice. II.

Open by permission of the instructor to students who are taking or have completed course 5. One hour a week for a year. (Three hours of studio practice.)

First Semester, Miss Newkirk.

Second Semester, Mr. Comins.

First semester: drawing, sketching; second semester: color work.

15. Studio Practice. II.

Open by permission of the instructor to students who are taking or have completed course 14. One hour a week for a year.

First Semester, Miss Newkirk.

Second Semester, Mr. Comins.

First semester: drawing, sketching; second semester: color work.

16. Studio Practice. II.

Open by permission of the instructor to juniors and seniors who have completed course 14. Two hours a week for a year. (Six hours of studio practice.)

First Semester, Miss Newkirk.

Second Semester, Mr. Comins.

First semester: drawing, preparatory to the second semester's work; second semester: drawing from life; and design at the discretion of the instructor.

NOTE.—No studio course will count toward the degree until one course in the History of Art has been taken. After one course in the History of Art has been completed, three hours of studio work as indicated in 5, 14, 15, 16, above, equivalent to nine hours of studio practice, may count toward the degree; *four hours of studio work*, equivalent to twelve hours of studio practice, may so count, if *six hours* in the History of Art have been completed.

Students in art courses are required to use laboratory methods, examining and comparing, sketching or describing, the photographs used in illustration.

Previous preparation in drawing is not required.

The art library is open to students from 8.15 to 5.30 daily, and from 7.15 to 9.15 in the evening.

N. B. Any student who desires to give yearly the time of one full course to studio work throughout her college course may do so by spending five years in college before taking her degree, instead of four.

ASTRONOMY

PROFESSORS: SARAH FRANCES WHITING, D.SC.,
ELLEN HAYES, B.A.

ASSISTANT: IDA WHITESIDE, A.M.

GRADUATE ASSISTANTS: ERNESTINE WELLS FULLER, B.A.
MARY WOOD DALEY, B.A.

1. Physical Astronomy. II.

Open to juniors, and seniors, and to sophomores who have completed Physics 1, or an equivalent. Three hours a week for a year.

Miss Whiting, Miss Whiteside, Miss Fuller.

A general survey of present knowledge of the universe, and of the methods by which this knowledge has been obtained.

Special emphasis upon astrophysics. One third of the course consists of observation of the heavens with and without instruments, work with the spectroscope, with the ephemeris, charts, photographs.

2. Practical Astronomy. II.

Open to students who have completed Pure Mathematics 1. Three hours a week for a year.

Miss Hayes, Miss Daley.

An outline of Astronomy, with practice in the use of instruments for the determination of the position of a heavenly body; time, latitude.

3. Advanced Astronomy. III.

Open to students who have completed course 2, and who have completed or are taking course 1 in Applied Mathematics. Three hours a week for a year.

Miss Hayes.

Work at the observatory with clock, chronograph, sextant, surveyor's transit, prismatic transit, equatorial telescope.

Text-books: Campbell's *Practical Astronomy*; Chauvenet's *Method of Least Squares*.

† 4. Celestial Mechanics. Observatory Work. III.

Primarily for graduate students who have completed course 3, or an equivalent. Three hours a week for a year.

Miss Hayes.

The course will include the development of the theory of a parabolic orbit, and the determination of one such orbit, with special training in computing.

The practical work of course 3 will be continued.

5. Advanced Work in Astrophysics. III.

Primarily for graduate students who have had at least one year of Astronomy. Three hours a week for a year.

Miss Whiting, Miss Whiteside.

The use of instruments and consultation of original memoirs in the study of astronomical spectroscopy, variable stars, the solar surface, measurement of photographic plates.

† Withdrawn for the current year.

BIBLICAL HISTORY, LITERATURE AND INTERPRETATION

ASSOCIATE PROFESSORS: ADELAIDE IMOGENE LOCKE, B.A., S.T.B.,

†† ELIZA HALL KENDRICK, PH.D., FOR GREEK TESTAMENT:
ANGIE CLARA CHAPIN, M.A., PROFESSOR OF GREEK.

INSTRUCTORS: KATRINE WHEELOCK, B.D.,

MARY INDA HUSSEY, PH.D.

ELEANOR DENSMORE WOOD, B.A.

I. Hebrew

† I. Elementary Hebrew. II.

Open to juniors and seniors. Three hours a week for a year.

Miss Hussey.

The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Davidson's *Introductory Hebrew Grammar*.

During the third term reading of the book of Ruth and of stories selected from Genesis, Judges, or I Samuel.

At the end of the course the student should be able to read simple Hebrew and to use the language in the study of the old Testament.

II. Biblical History

The requirement in Biblical History for a degree is met by taking courses 1 or 10, and *one* of the following courses: 3, 4, 5, 6, 8.

1. Studies in Hebrew history from the settlement of Canaan to the Maccabean Period. I.

Required of sophomores. Two hours a week for a year.

Miss Wheelock, Miss Hussey.

10. The Development of Thought in the Old Testament. I.

Open to sophomores. Three hours a week for a year.

Miss Hussey.

†† Absent on leave.

† Withdrawn for the current year.

It is the purpose of the course to offer (a) political and social studies in Hebrew History to the period of Judaism; (b) a survey of the development of thought in the Old Testament as shown in the prophetic, priestly, and wisdom literature.

This course counts as equivalent to course 1 and a one-hour elective.

3. The Development of Thought in the New Testament. II.

*Open to students who have completed course 1 or 10.
Three hours a week for a year.*

Miss Wood.

It is the purpose of this course to offer studies in the essential teachings of Christianity as represented by the several New Testament writers. There will be included such historical study of New Testament times and such presentation of the questions of New Testament introduction as are necessary to make intelligible the development of Christian thought.

4. Life of Christ. II.

*Open to students who have completed course 1 or 10.
Two hours a week for a year.*

Miss Locke, Miss Wood.

This course includes an outline study of the life of Christ, his land, people, and times, and a special study of some of his teachings.

5. Greek Testament I. Text study of the Gospels. II.

*Open to students who have completed course 1 or 10
and Greek 1. Two hours a week for a year.*

Miss Chapin.

First semester, the synoptic Gospels; second semester, the Gospel of St. John. Lectures and readings.

- * 6. Greek Testament II. Studies in the life and literature of the Apostolic Age. II.

Open to students who have completed course 1 or 10 and Greek 1. Two hours a week for a year.

Miss Chapin.

Readings from the book of Acts, the Epistles, and the early extra-canonical literature in Greek.

- * 7. Sources of New Testament Greek in the Septuagint. III.

Open to students who have completed course 5. One hour a week for a year.

Miss Chapin.

Quotations from the Old Testament in the New; lectures. Illustrative readings, chiefly from the Psalms in Greek.

8. The Life of Paul. II.

Open to students who have completed course 1 or 10. Two hours a week for a year.

Miss Wheelock.

A study of the life and writings of Paul. The themes treated: Paul's environment and the influences affecting him; the facts of his life; the contents of his writings; his conception of Christianity; his influence in the church.

Study of the text, required readings, class discussions.

9. History of Religions. III.

Open to students who have completed two courses in Biblical History. Three hours a week for a year.

Miss Locke.

Introductory study of primitive religions; followed by an outline comparative study of the rise and development of the leading historic faiths.

Lectures, reports of special study, discussions.

¹ Not offered in 1908-1909.

BOTANY

PROFESSOR: MARGARET CLAY FERGUSON, PH.D.

ASSOCIATE PROFESSOR: KARL MCKAY WIEGAND, PH.D.

INSTRUCTORS: HENRY SAXTON ADAMS, B.A.S.,
MARY CAMPBELL BLISS, M.A.,
LINCOLN WARE RIDDLE, PH.D.,
MAUDE CIPPERLY WIEGAND, A.B.,
ALICE MARIA OTTLEY, M.A.,
LAETITIA M. SNOW, PH.D.

ASSISTANT: EMILY PAULINE LOCKE, M.A.

LABORATORY ASSISTANT: MABEL ANNIE STONE, A.B.

CURATOR: JESSIE MAY CIPPERLY.

5. Plant Studies. I.

Open to freshmen and sophomores. Three hours a week for a year.

Miss Ferguson, Miss Bliss, Mrs. Wiegand,
Miss Ottley, Miss Snow, Miss Locke.

This course is designed to bring the student into sympathy with the plant world, to cultivate the power of careful observation, to give a knowledge of the fundamental principles of plant life and plant breeding, and of the general principles of floriculture. As a basis for acquaintance with the nature and work of plants, the structure and development of certain plants are studied from seed germination to fruit formation, and the more simple problems connected with the adjustment of plants to their surroundings are investigated. Students are trained to know the herbaceous plants in their spring condition, to recognize the early flowers, and to know our common trees both in their winter and in their summer aspect. One lecture, one recitation, and four hours in the laboratory or field each week.

1. General Botany. II.

Open to juniors and seniors, and to sophomores who have completed course 5, or its equivalent. Three hours a week for a year.

Miss Ferguson, Mr. Wiegand,
Mr. Riddle, Mrs. Wiegand.

This course treats of plant structures, the fundamental principles of plant life, the relation of plants to their environment, and the evolution of plants as indicated in a study of the comparative morphology of representative plants of the various groups from the Algæ to the Phanerogams. During the spring considerable time is devoted to field studies. A plot of ground twenty feet square is assigned to each student. The plants growing on these plots are observed throughout the year, and at stated intervals reports based on an ecological study of the plants are made. In these reports special emphasis is laid on the relation of structure to environment. Lectures and recitations are accompanied by parallel studies in the laboratory and field.

2. Taxonomy of the Algæ, Bryophytes, and Pteridophytes. III.

Open to students who have completed course 1. Three hours a week for a year.

Mr. Riddle.

A critical study of the structure and development of the Algæ, and of the taxonomy of Algæ, Liverworts, Mosses and Ferns. Lectures accompanied by laboratory and field work aim to give the student intimate acquaintance with the plants belonging to these groups, and practical experience in their determination.

3. Taxonomy and Geographical Distribution of the Phanerogams. III.

Open to students who have completed course 1. Three hours a week for a year.

Mr. Wiegand.

A study of the genetic relationships and distribution of flowering plants. This course is largely conducted in the laboratory and in the field. It aims to give the student an acquaintance with the local flora in all its seasonal changes, and to give independence in the determination of plants by the use of manuals and keys.

4. Bacteriology and Mycology. II.

Open to students who have completed course 5. Three hours a week for a year.

Mr. Riddle.

This course is divided into three parts. The first part is devoted to a consideration of bacteria, yeasts, and moulds in their relation to the affairs of daily life; special emphasis is placed on the connection of these organisms with disease, with preservation of foods, with water and milk supplies, and with industrial processes. The second part considers the fungous diseases of plants, especially those of economic importance, with practice in their recognition and suggestions as to their treatment. The third part takes up the edible and poisonous mushrooms, and is designed to enable the student to recognize the common species.

† 7. Plant Problems. III.

Open to graduate students. Three or six hours a week for a year.

Miss Ferguson, Mr. Wiegand, Mr. Riddle.

This is primarily a laboratory course, but a definite weekly appointment is made with each student for a report of the papers read and of the progress of her study, and a final paper or thesis embodying the results of her investigations is required. A special problem in one of the following subjects is assigned to each student:—

Embryology, Histology, Physiology, Ecology, Taxonomy.

12. Horticulture and Landscape Gardening. II.

Open to students who have completed courses 5 and 1, or their equivalent. Three hours a week for a year.

Mr. Adams.

This course aims to cultivate the appreciation of outdoor art, and at the same time to give such a knowledge of the cultivated plants and of the art and science of horticulture and landscape gardening as will enable the student to carry on gardening for pleasure or profit, and also to act as director of school and municipal gardens.

During the first semester the subjects considered are soils, manures, fertilizers, propagation, hybridization, and the cultivation of plants out of doors. Greenhouse con-

† Withdrawn for the current year.

struction and management, insect pests, plant diseases, and spraying are discussed. The second semester is devoted to the theory and practice of landscape gardening.

During the course a special study and tabulated descriptions of at least one hundred cultivated plants for purposes of identification and use in planting is required of each student.

13. Comparative Morphology, Histology, and Embryology. III.

Open to juniors and seniors who have completed course 1. Three hours a week for the year.

Miss Ferguson.

Preliminary studies of the structure, development, and contents of the vegetable cell, nuclear and cell division, tissue formation. Especial emphasis is given to tracing the development and homologies of sporogenous, reproductive, and embryological organs, and to the problems of evolution and inheritance. A number of permanent microscopic preparations are made by each student as a means of becoming acquainted with the most approved methods in cytological and histological technique.

14. Botanical Seminary. III.

Required of graduate students, and open to seniors by permission. One hour a week for the year.

Miss Ferguson.

Readings and discussions of current literature and reports of problems under investigation.

CHEMISTRY

PROFESSOR: CHARLOTTE FITCH ROBERTS, PH.D.

ASSOCIATE PROFESSOR: CHARLOTTE ALMIRA BRAGG, B.S.

INSTRUCTOR: GEORGE ARTHUR GOODELL, M.A.

ASSISTANTS: GERTRUDE BIGELOW, B.S.,
HELEN S. FRENCH, B.A.

CURATOR: MARY MARIAN FULLER.

1. General Chemistry. Lectures and laboratory work. I.

Open to all undergraduates. Three hours a week for a year.

Miss Roberts, Miss Bragg, Miss Bigelow.

Course 1 is for beginners in Chemistry, and is intended to familiarize the student with the important properties of the elements and their compounds, with their modes of preparation, and with such tests as shall lead up to the study of systematic Qualitative Analysis; also to present the laws governing chemical reactions, the meaning of chemical equations, and the more recent theories adopted in the science.

2. Qualitative Analysis. II.

Open to students who have completed course 1 or 4. Three hours a week for the first semester.

Mr. Goodell.

This course supplements course 1 by presenting more in detail the properties and characteristic reactions of the metallic elements. Practical methods of separating and recognizing the elements present in mixtures are taught, and the progress of the student is constantly tested by the examination of substances, the composition of which is unknown to the student.

† 3. Organic Chemistry. II.

Open to students who have completed course 1. Three hours a week for the second semester.

Miss Bragg.

This course includes a somewhat careful study of the saturated series, dealing very briefly with the unsaturated and benzene series. Experiments are performed in the laboratory to illustrate the behavior of representative substances, and a limited number of preparations are made to familiarize the student with the more common processes of Organic Chemistry.

4. Advanced General Chemistry. I.

Open to freshmen who have met the admission requirement in Chemistry. Three hours a week for a year.

Miss Roberts, Miss French.

The course aims to give a thorough knowledge of the fundamental principles of the science, and to take up, so far as time allows, subjects of interest and importance in daily life.

† Withdrawn for the current year.

5. Quantitative Analysis. II.

Open to students who have completed course 2. Three hours a week for the second semester.

Mr. Goodell.

In this course a few typical processes involving both volumetric and gravimetric methods are taught, to illustrate the general principles of Quantitative Analysis.

6. Air, Water, and Food Analysis. III.

Open to students who have completed courses 2, 3 or 7, and 5. Three hours a week for the first semester.

Miss Bragg.

7. Organic Chemistry, with laboratory work in organic preparations. III.

Open to students who have completed courses 1, 2, and 5. Three hours a week for a year.

Miss Roberts, Miss French.

8. Theoretical Chemistry. III.

Open to students who have completed course 3 or 7. Three hours a week for the second semester.

Miss Roberts.

† 9. Selected Subjects in Theoretical and Physical Chemistry, with laboratory work in the determination of vapor densities and molecular weights. III.

Open to seniors and graduates who have completed course 8. Three hours a week for a semester.

Miss Roberts.

† 10. Advanced Laboratory Course : Special Work in Organic Preparations, or Problems of Food Analysis, or Advanced Analytical Chemistry. III.

Open to seniors and graduates. Three hours a week for a semester.

Miss Roberts.

† Withdrawn for the current year.

The subject treated each year is arranged on consultation with the department.

Courses 9 and 10 will not ordinarily be given the same year.

11. Historical Chemistry. II.

Open to students who have completed course 1 or 4. Two hours a week for a year.

Miss Roberts.

This course treats of the beginnings of Chemistry, and its development to modern times. It includes a study of the work of the alchemists, and of the lives and discoveries of the more prominent founders of the science.

ECONOMICS AND SOCIOLOGY

PROFESSOR: †KATHARINE COMAN, B.A.

ASSOCIATE PROFESSOR: EMILY GREENE BALCH, B.A.

INSTRUCTORS: C. E. PERSONS, M.A.,
ANNA YOUNGMAN, PH.D.

1. Elements of Economics. I.

Open to freshmen and sophomores. Two hours a week for the year.

Miss Youngman.

An introductory course designed to give the student acquaintance with economic facts and training in economic reasoning. Illustrations will be drawn from actual observation of the conditions determining prices, land values, wages, profits, and standards of living. In the second semester, certain legislative problems relating to currency, banking, the tariff, etc., will be discussed in class.

2. Industrial History of the United States. III.

Open juniors and seniors who have completed course 1 or 15. Three hours a week for a year.

Mr. Persons.

A study of our national development in its material and social aspects, accompanied by a critical review of economic

† Absent on leave.

legislation. Coman's *Industrial History of the United States* will serve as a guide in class discussion. Each student will undertake to investigate a special phase of the general subject, and will submit two final papers, one in February and one in June, representing about half the working time required by the course.

3. Industrial History of England. II.

Open to students who have completed or are taking course 1 or 15. Three hours a week for the first semester.

Mr. Persons.

A study of the evolution of industrial forms, more especially of villeinage, guilds, domestic manufacture, the factory system, capitalist farming, and modern commerce. Each student will be expected to submit a final paper discussing some nineteenth century problem.

4. Socialism. III.

Open to juniors and seniors who have completed one course in Economics. Three hours a week for the first semester.

Mr. Persons.

A critical study of modern socialism, including the main theories and political movements, and certain socialistic experiments. Special attention will be given to Karl Marx, and selected parts of *Capital* will be read by the class. A reading knowledge of French and German is desirable but not indispensable.

5. Statistical Study of Certain Economic Problems. III.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for the first semester.

Miss Youngman.

The course is introduced by lectures on the principles of statistical research. Each member of the class undertakes the investigation of a particular problem, and reports the

results of her inquiry in the form of a final paper. Emphasis is placed upon the critical examination of statistical methods.

6. Social Economics I. III.

Open to juniors and seniors who have completed one course in Economics. Three hours a week for the first semester.

Miss Balch.

A study of the dependent, defective, and delinquent classes, accompanied by discussion of methods of dealing with each. The class will make four or five visits to designated institutions, and each student will undertake the study of some special problem which will be discussed in a final paper.

7. Social Economics II. III.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for the second semester.

Miss Balch.

A discussion of methods of meeting certain normal social needs, such as housing, sanitation, education, and recreation, accompanied by a critical discussion of the principles and actual boundaries of self-help and collective action. The North End of Boston is used as a field of observation. The arrangement of excursions is similar to that in course 6.

8. Labor Movement in the Nineteenth Century. III.

Open to students who have completed or are taking course 1 or who have completed course 15. Three hours a week for the second semester.

Mr. Persons.

A critical study of labor organizations in their historical and economic aspects. The origins of trade unions, recent legislation, important judicial decisions relating to labor combinations, and the present status of trade unionism in England and in America will be discussed.

Important features of trade union policy, such as collective bargaining, the standard rate, the "closed shop," the alleged restriction of output will be studied in their effects on industry, on the consumer, and on the working classes.

* 9. An Introduction to General Sociology. III.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for a year.

Miss Balch.

A study of facts and theories of social development, and more especially of the growth of institutions, such as the family, the state, law, and property.

10. Immigration. III.

Open to juniors and seniors who have completed course 1 or 15. Three hours a week for the second semester.

Miss Balch.

A study of immigration into the United States, the race elements represented, and their geographical distribution, the social, political, and economic influence of our foreign populations, the history of restrictive legislation, and the arrangements thus far provided for the reception and care of aliens. Each student will submit a final paper on some special phase of the subject.

12. The Trust Problem. II.

Open to students who have completed course 1 or 15. Three hours a week for the second semester.

Miss Youngman.

This course will deal with the various forms of monopolistic organization, the growth of the movement toward large scale production, the history of characteristic combinations, legislation and judicial decisions relating to the subject, the alleged advantages and evils of trusts, and proposed remedies for the latter. Each student will be required to submit a paper representing the result of her study of one of the great combinations.

* Not offered in 1908-1909.

13. Selected Industries. I.

Open to all students. One hour a week for a year.

Mr. Persons.

This course should be elected with course 1. It is designed to supplement the theoretical work by a concrete study of economic conditions. The early history of the cotton and woolen industry, the growth of the factory system in England and America, factory legislation, wages, various labor difficulties, protective duties, and other practical problems will be discussed. Final papers will be required representing the student's knowledge of a particular factory town.

14. Municipal Socialism. III.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for the second semester.

Mr. Persons.

This course is designed to follow course 4 and proposes a review of actual experiments, English, German, and American, in the way of municipalization of public service agencies. The legitimate relations between public and private corporations, the necessary limitations on franchise and other concessions, and the results of foreign experience are discussed. To each student is assigned for individual study an important American city.

15. History of Economic Theory. II.

Open to juniors and seniors. Three hours a week for the first semester.

Miss Balch.

A discussion of economic theory as determined by industrial and political environment. The teachings of Plato and Aristotle, the canons of the schoolmen, the tenets of the mercantilist, physiocratic and *laissez-faire* schools, are treated in the light of contemporary industrial conditions; more recent modifications in economic ideas are also noted.

17. Consumption. III.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for the second semester.

Miss Balch.

This course will deal with both theoretical and practical aspects of the use of wealth. The function of women in directing household expenditure will be considered throughout.

ELOCUTION

ASSOCIATE PROFESSOR: MALVINA BENNETT, PH.B.

1. Training of the Body and Voice. I.

Open to sophomores, juniors, and seniors; to freshmen by special permission. Two hours a week for a year.

Miss Bennett.

Body; poise and bearing. Voice, articulation. Text-book: King's *Graduated Exercises in Articulation*. Reading with special reference to a good use of the voice and clear, direct giving of the thought. Recitations.

2. Training of the Body and Voice. Expression. II.

Open to students who have completed course 1, or an equivalent. Two hours a week for a year.

Miss Bennett.

Voice culture; exercises for freedom of the body; gesture; recitations from the best authors; reading at sight.

The work is along the lines of course 1, only much more advanced.

3. Reading of Shakespeare. II.

Open to students who have completed courses 1 and 2, or to those who have completed or are taking English Literature 9; to others at the discretion of the instructor. Two hours a week for a year.

Miss Bennett.

Analysis of characters; reading; scenes selected for memorizing and acting. Two plays studied.

This course does not count as a separate subject when elected with English Literature 9.

ENGLISH

I. English Literature

PROFESSOR: KATHARINE LEE BATES, M.A.

ASSOCIATE PROFESSORS: VIDA DUTTON SCUDDER, M.A.,
 SOPHIE JEWETT,
 MARGARET POLLOCK SHERWOOD PH.D.,
 ALICE VINTON WAITE, M.A.,
 LAURA EMMA LOCKWOOD, PH.D.,
 MARTHA HALE SHACKFORD, PH.D.,
 CHARLES LOWELL YOUNG, B.A.

INSTRUCTOR: ADELE LATHROP, M.A.

ASSISTANT: FLORENCE CONVERSE, M.A.

GRADUATE ASSISTANTS: RUTH DANE EDDY, B.A.,
 FLORENCE RISLEY, B.A.

1. Outline History of English Literature. I.

Open to sophomores, juniors, and seniors Three hours a week for a year.

Miss Shackford and Miss Lathrop.

The object of this course is to give the student a general survey of English literature and to prepare the way for more specialized work. The course is conducted by lectures and by critical study of selected masterpieces.

A syllabus of the historical work is sold by the department.

2. American Authors. II.

Open to students who have completed or are taking course 1, and to all seniors. Three hours a week for a year.

Mr. Young.

This course will attempt to give a comprehensive account of imaginative literature in America. After a brief introductory sketch of the Colonial and Revolutionary background, the class will take up in turn: (1) the literature of the Middle States; (2) of New England; (3) of the country at large since the Civil War, especially the South and the West. Stress will be laid in class room on a few representative writers.

3. English Lyric Poetry. II.

Open to students who have completed or are taking course 1. Three hours a week for a year.

Miss Lathrop.

This course will include studies of various lyric forms. Close attention will be given to Elizabethan songs and sonnets, with comparative work in earlier and later lyrics.

4. Milton. II.

Open to students who have completed or are taking course 1. Three hours a week for a year.

Miss Lockwood.

The primary object of this course is the critical study of Milton as a master in lyric, epic, and dramatic poetry, and as a writer of notable prose. The character and genius of the poet are considered as influenced by the political and religious conflict of the times. Special emphasis is placed on the comparison of Milton's work with that of other great writers who have used the same literary forms.

5. English Prose, exclusive of Fiction, from Sidney to Carlyle. II.

Open to students who have completed or are taking course 1. Two hours a week for a year.

Miss Lathrop.

The aim of this course is to trace the development of English prose style, to examine the chief prose forms perfected, and to study the personality and influence of each of the more important writers.

6. Victorian Prose. III.

For conditions of entrance see final note. Three hours a week for a year.

Miss Scudder.

This course will deal especially with Dickens, Thackeray, George Eliot, Carlyle, Newman, Ruskin, and Arnold. Attention will also be given to the historical background, and to the work of minor men.

7. English Poetry of the Nineteenth Century. III.

For conditions of entrance see final note. Three hours a week for a year.

Miss Jewett.

This course considers the work of the great Georgian and Victorian poets in their relation to one another and to contemporary movements, political, social, ethical, and æsthetic. Extended study is given to Wordsworth and Coleridge; Shelley and Keats; Tennyson and Browning; with briefer readings from Byron, Scott, and Landor; Clough and Arnold; Rossetti, Morris, and Swinburne.

8. English Literature of the Fourteenth Century. I. and II.

Open to students, not seniors, who have completed or are taking course 1, and, without prerequisite, to freshmen beginning the four-course major; see final note. Three hours a week for a year.

Miss Jewett and Miss Converse.

This course will include a chronological study of the major portion of Chaucer's work. Attention will be given to Chaucer's chief French and Italian sources, to contemporary English literature and social conditions. Special study will be put upon Langland's *Piers Plowman* and upon *The Pearl*.

9. English Drama through Shakespeare. III.

For conditions of entrance see final note. Three hours a week for a year.

Miss Bates.

This course attempts to trace the dramatic evolution from the Easter Mystery to Shakespeare, to observe the structure and artistic principles of the Elizabethan drama, and to study closely a few of Shakespeare's plays, with reading and discussion of the others. A syllabus sold by the department furnishes bibliographical data for the work.

10. Historical Development of English Literature. III.

For advanced students. For conditions of entrance see final note. Three hours a week for a year.

Miss Scudder.

This course follows the development of English Literature from the earliest times to the present. It is designed to supplement the more detailed courses already taken by a general survey which shall reveal causes and relations.

* 11. Modern Authors. III.

Primarily intended for graduate students. Open to seniors only by special permission. Three hours a week for a year.

Miss Scudder.

Two significant authors are chosen each year for close and comprehensive study. The authors considered in 1901-1902 were Ruskin and Morris; in 1903-1904 Wordsworth and Coleridge; in 1904-1905 Rossetti and Swinburne; in 1906-1907 Shelley and Browning.

12. Critical Problems of the Literature of the Fourteenth Century. III.

Open to graduates and to approved seniors who have completed two earlier courses in the department. Three hours a week for a year.

Miss Shackford.

This course aims to introduce students to some of the more important problems in the literature of Chaucer and of his contemporaries. Special effort will be made to investigate the differentiation of literary types in this era; the development of the resources of the language; the influence of foreign writers, operative in England; and some of the vital questions of textual criticism.

13. Social Ideals in English Letters. I.

Open to all students except freshmen. One hour a week for a year.

Miss Scudder.

This course will trace the development of social thought in modern English Literature. Emphasis will be put upon the poets of the Revolutionary period.

* Not offered in 1908-1909.

* 14. English Masterpieces of the Nineteenth Century. II.

Open only to seniors who have completed no full course in English Literature, or course 1 only. Three hours a week for a year.

Mr. Young.

This course is intended to develop a sympathetic appreciation of literature through the study of chosen masterpieces.

* 15. Shakespeare's Contemporaries and Successors. I.

Open to all students except freshmen. One hour a week for a year.

Miss Sherwood.

Lectures with library readings. Selected dramas from the successive dramatic periods, Jacobean, Restoration, Eighteenth Century, Georgian, Victorian, will be studied.

17. Development of English Prose Fiction to 1830. I.

Open to all students except freshmen. One hour a week for a year.

Miss Sherwood.

The work will extend from the chivalric romance through the sixteenth-century experiments with new types, and the eighteenth-century development of the novel, to selected masterpieces of Jane Austen and of Scott.

18. The British Ballad. II.

Open to students who have completed or are taking course 1. Two hours a week for the first semester.

Miss Jewett.

This course will consist of a study of the English and Scottish popular ballads, and of the modern literary ballad from Scott to Stevenson. See course 19.

19. Metrics. II.

Open to all students except freshmen. Two hours a week for the second semester.

Miss Waite.

This course will consist of a series of lectures on the principles of metrical form, intended to guide the student of literature to a better appreciation of poetic expression. The lectures will be accompanied by class readings and class analyses of verse and stanza.

This course may well be taken in connection with course 18.

* 20. The Poetry of Spenser. II.

Open to students who have taken or are taking course 1. Three hours a week for the second semester.

This course includes the greater part of the *Faerie Queene* and all the minor poetry of Spenser.

* 21. Introduction to Arthurian Romance. II.

Open to students who have taken or are taking course 1. Two hours a week for a year.

Miss Scudder.

This course will open with Malory's *Morte Darthur*, and thence work back to a study of certain earlier forms of Arthurian romance. The Grail-Cycle will receive especial attention.

22. English Romanticism. III.

Open to graduates and to approved seniors who have already completed two courses in the department. Three hours a week for a year.

Miss Sherwood.

A study of the Romantic Movement, designed to bring out, through investigation of selected works, certain phases of the relation of English to German Literature,

and of English to French Literature, during the period of reaction in the late eighteenth and the early nineteenth century.

23. Critical Problems of Elizabethan Literature. III.

Primarily for graduates, but open, by approval, to seniors who have had course 9. Three hours a week for a year.

Miss Bates.

This course will attempt to give graduate training in literary investigation. To each student will be assigned some special problem of source, authorship or the like, which she will pursue till her conclusion is reached, reporting progress from week to week in the seminar. In the case of candidates for the Master's degree, their subjects will be related, when possible, to their theses.

24. Critical Problems of American Literature.

Open to graduates and to approved seniors who have already completed two courses in the department. Three hours a week for a year.

Mr. Young.

The course is designed for the investigation by seminar method of advanced subjects in American Literature.

NOTE.—Courses in English Literature are elective.

MAJORS

Majors should be arranged as follows :—

The Three-Course Major

Course 1, followed by a three-hour course (2, 3, 4, 8) in Grade II, and a three-hour course (6, 7, 9, by permission 12, 22, 23 or 24) in Grade III. A two-hour course, 18 and 19, or 5, with a one-hour course, 13 or 17, may be substituted for the three-hour course in Grade II.

The Four-Course Major

- A. Course 8, followed by 9, then by 6 or 7, and finally by 10.

This major is regarded by the department as affording the firmest foundation for teaching or for graduate work, in that the student puts special study on the successive great periods of English Literature in preparation for apprehending, through course 10, the development of that literature as an organic whole. Substitute courses of a kindred nature may be arranged, for good reason, by permission of the head of the department, as 22 in place of 6 or 7.

- B. The three-course major (above), followed by a three-hour course (6, 7, 9, by permission 12, 22, 23 or 24) in Grade III.

No group of electives may include both course 1 and course 10.

Two one-hour courses may not be taken in any one year.

Substitutions may be made by permission of the head of the department.

OTHER ELECTIVES

Students proposing to elect a single full course should take 1, with the exception of seniors desiring course 2 or course 14.

Students proposing to elect two courses only, should take 1, followed by a three-hour course (2, 3, 4, 8) in Grade II, or by a two-hour course (18 and 19, or 5) combined with a one-hour course (13 or 17).

Either half of any one of courses 2, 3, 4, 6, 7, may be taken as a complete semester course, by permission of the instructor of the course and of the head of the department. In special cases, the first semester of 8 or 9 may be so counted.

II. English Composition

PROFESSOR: SOPHIE CHANTAL HART, M.A.

ASSOCIATE PROFESSORS: ALICE VINTON WAITE, M.A.,
FRANCES MELVILLE PERRY, M.A.

INSTRUCTORS: † JOSEPHINE MAY BURNHAM, PH.B.,
EDITH WINTHROP MENDALL TAYLOR, B.A.,
† CLARE MACLELEN HOWARD, M.A.,
AGNES FRANCES PERKINS, M.A.,
ELIZABETH WHEELER MANWARING, B.A.,
AMY KELLY, M.A.,
JOSEPHINE HARDING BATCHELDER, B.A.,
ALICE HASKELL, M.A.

ASSISTANTS: SUSAN JOSEPHINE HART,
ELIZABETH BOGMAN POPE, B.A.

‡ 1. General Survey. I.

Required of freshmen. Two hours a week for a year.

Miss Perkins, Miss Kelly,
Miss Manwaring, Miss S. J. Hart, Miss Pope.

First semester: exposition; description; narration. Weekly themes. Second semester: critical study of the essay, and of the structure of the short story. Fortnightly themes or their equivalent.

‡ 2. Argumentation and Critical Exposition. II.

Required for a degree. Open to students who have completed course 1. Two hours a week for a year.

Miss Taylor, Miss Batchelder, Miss Haskell.

Fortnightly themes, or their equivalent. Studies in argumentation, in criticism, and in forms of fiction.

‡ 4. Critical Exposition and Argumentation. Advanced Course. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Waite.

† Absent on leave.

‡ If a student submits papers notably deficient in English, as part of her work in any department, she will incur a condition in English, whether or not she has completed the required courses in English.

This course aims to familiarize the student with methods of composition in argumentation and critical exposition including practice in the collection and arrangement of material, the analysis of prose essay style, and the underlying principles of criticism of poetry and of the drama and novel.

6. Long and Short Themes. III.

Open to students who have completed course 2 or 12. Two hours a week for a year.

Miss Hart, Miss Manwaring.

Four short themes or their equivalent per week. Long themes at stated intervals. Critical analysis in the class room of themes submitted.

10. The Theory and History of Criticism. III.

Open to juniors and seniors. One hour a week for a year.

Miss Hart.

Lectures on the critical theory of Plato and Aristotle and on the more important English and French critics.

‡ 12. Principles of Rhetoric and Composition. I.

Open to freshmen only. Five hours a week for a year.

Miss Perry.

First semester: the elements and qualities of style; analysis of the essay; weekly themes. Second semester: translation; description; analysis of the short story; principles of argumentation; fortnightly themes. This course will cover the required work in English and will count in addition as a one-hour elective.

16. Advanced Course in English Composition. III.

Open to students who have completed course 6. Three hours a week for a year.

Miss Hart.

Studies in structure and style with frequent practice in writing.

‡ If a student submits papers notably deficient in English, as part of her work in any department, she will incur a condition in English, whether or not she has completed the required courses in English.

III. English Language

PROFESSOR: SOPHIE CHANTAL HART, M.A.

ASSOCIATE PROFESSORS: LAURA EMMA LOCKWOOD, PH.D.,
ALICE VINTON WAITE, M.A.

1. Old English. II.

Open to sophomores, juniors, and seniors who have completed a year of language in college. Three hours a week for a year.

Miss Lockwood.

A study of Old English grammar. The reading of *Beowulf*, *Judith*, *The Battle of Maldon*, and selections from the prose of Alfred and Ælfric.

† 2. Old and Middle English. III.

Open to juniors, seniors, and graduates who have completed course 1. Three hours a week for a year.

Miss Lockwood.

First semester; the reading of the poetry of Cynewulf and of selections from the *Riddles*. Second semester: the study of the Middle English dialects based upon Emerson's *Middle English Reader*. The reading of the romances of *Havelock*, *King Horn*, *Emare*, and *The Siege of Troy*.

3. History of the English Language. III.

Open to juniors and seniors. Three hours a week for a year.

Miss Waite.

Origin and structure of the English Language in vocabulary, grammatical inflections, and syntax as the basis of modern usage.

4. Seminar in Old English. III.

Open to graduates, and to seniors by permission of the department. Three hours a week for a year.

Miss Lockwood.

A study of Old English inflections, phonology, and syntax. The reading of the best pieces of literature in Old English prose and poetry. A particular problem in either literature or language is assigned to each student for investigation.

† Withdrawn for the current year.

FRENCH

PROFESSOR: HENRIETTE LOUISE THÉRÈSE COLIN, PH.D., OFF. I. P.

INSTRUCTORS: † VALENTINE JULIE PUTHOD, OFF. A.,
 MARIE LOUISE CAMUS, B. ÈS L.,
 MAGDELEINE OTTEN CARRET, LIC. ÈS L.,
 MARIE PAULINE RÉGNIÉ, LIC. ÈS L.,
 GUSTI SCHMIDT.

ASSISTANT: AMÉLIE SÉRAFON.

Students intending to do graduate work, or to teach in secondary schools, should consult the head of the department in regard to the election of their courses in French. All courses following course 1 are conducted in French.

‡ 1. Elementary Course. Grammar, Composition, Reading, and exercises in speaking. I.

Open to all students. Three hours a week for a year.

Miss Camus, Madame Schmidt.

This course includes (1) a practical study of grammar including a thorough drill in inflections, the regular and irregular verbs; (2) a concise survey of French history; (3) the reading of texts chosen from a certain range of authors and of subjects to insure the acquisition of a comprehensive vocabulary.

‡ 2. Elementary Course. Grammar, Composition, Reading and exercises in speaking. I.

Open to all students who have completed course 1 or an equivalent. Three hours a week for a year.

Miss Camus, Miss Carret,
 Miss Régnié, Madame Schmidt, Miss Sérafon.

A systematic review of syntax introductory to original theme writing and oral narrative. Selected Readings, prepared and sight, from ten modern writers, part plays.

† Absent on leave.

‡ First-year French may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year French if taken after the junior year. French 1 and German 1 may not both be counted toward the B.A. degree.

- † ‡ 26. Elementary Course, combining courses 1 and 2 for one year.

Open to all students. Six hours a week for a year.

This course is intended for students who do not offer French for admission. It prepares for courses 3, 24, and 5.

3. Intermediate Course. Studies in French Idioms and Structure; Prosody. I.

Open to students who have completed course 2 or its equivalent. One hour a week for a year.

Miss Camus, Madame Schmidt.

A critical consideration of French idioms and structure, in connection with course 5, and prosody.

24. Intermediate Course. Oral Composition. I.

Open to students who have completed course 2 or its equivalent. One hour a week for a year.

Miss Carret, Miss Régnié.

This course is an alternate to course 3. It furnishes systematic practice in speaking as does course 3 in writing French. The subject-matter is, *Representative Men of France, illustrative of their native provinces.*

5. Intermediate Course. General Survey of French Literature. I.

Open to students who have completed courses 1 and 2, or who have met the maximum admission requirement in French. Two hours a week for a year.

Miss Camus, Miss Carret,
Miss Régnié, Madame Schmidt.

† Withdrawn for the current year.

‡ First-year French may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year French if taken after the junior year. French 1 and German 1 may not both be counted toward the B.A. degree.

This course makes the student acquainted in chronological sequence with a considerable number of literary masterpieces that France has produced since the seventeenth century, and gives her some idea of the general development of the literature from the Renaissance to the present day.

7. Advanced Grammar and Composition. Essay Work and journal club. II.

Open to students who have completed courses 3 or 24, and 5. One hour a week for a year.

Miss Carret, Miss Régnié, Miss Sérafon.

A course conducted on lines of actual interest. Periodicals on the shelves of the College library, also recent accessions, enable the student to acquire some familiarity with French topics of the day.

19. French Social Life and Manners—their bearings on French Literature. II.

Open to students who have completed courses 3 or 24, and 5. Two hours a week for a year.

Madame Colin, Miss Carret, Miss Régnié.

A connected study of legend, tradition, customs, phases of social life, for the purpose of tracing the twofold growth of the language and the literature of France.

17. Time, Life and Works of Lafontaine. II.

Open to students who have completed courses 3 or 24, and 5. One hour a week for a year.

Miss Régnié.

The history of the fables, the renovation of the *genre* by this writer, and its importance on the one side, as reflecting the religious, philosophical, and artistic ideals of the times; on the other, as giving a realistic picture of the various classes of society.

28. The Romantic School. II.

Open to students who have completed courses 3 or 24, and 5. Three hours a week for a year.

Miss Carret.

A comparative survey of the Romantic movement in Europe—The Origins of Romanticism in France, its manifestation through poetry, drama, fiction and art; its growth and triumph from 1800 to 1850; its influence abroad; the great romantic writers, Hugo and his followers.

14. French Literature in the XVI. Century—The Renaissance. III.

Open to students who have completed course 19 or its equivalent. Two hours a week for the first semester.

Miss Carret.

A study of the new life in art and letters; Marot: the *Pléiade*; Rabelais; Montaigne; the Reformation, Calvin.

25. Modern French Critics. III.

Open to students who have completed course 19 or its equivalent. Two hours a week for the second semester.

Miss Carret.

A study of modern French critics in literature and in art, commencing with Sainte-Beuve, and including Taine, Fromentin, Lemaître, Larroumet, Brunetière, Faguet, and Anatole France.

12. The Drama of the XVII. Century. III.

Open to students who have completed course 19 or its equivalent. Three hours a week for a year.

Madame Colin.

The theatre in France, the influences that shaped it, the masterpieces it produced are successively studied as representative of the nation and its conception of art.

9. French Literature in the XVIII. Century. III.

Open to students who have completed course 19 or its equivalent. Three hours a week for a year.

Miss Régnié.

A comprehensive account of movements of thought; and the life, time, influence of Montesquieu, Voltaire, Jean-Jacques Rousseau; the drama and novel as presented in the works of Voltaire, Regnard, Lesage, Marivaux, Rousseau, Beaumarchais; also a study of the political and philosophical writings of Montesquieu, of Diderot, of Rousseau.

10. French Literature in the XIX. Century. III.

Open to students who have completed course 19. Three hours a week for a year.

Miss Camus.

A study of the principal authors of the nineteenth century, as creative personalities in lyric poetry, the drama, and the novel.

* 23. Balzac and his types—Realism. III.

Open to graduates and seniors who have completed two full courses in French. One hour a week for a year.

Madame Colin.

A study in characterization during the first half of the nineteenth century.

27. La Nouvelle Littérature—writers of the last decade. III.

Open to seniors and juniors who have completed two full courses in French. Two hours a week for the first semester.

Miss Régnié.

A critical study of new ideals and problems, such as collectivism, traditionalism, and the new outlook of women as seen in the works of writers since 1895.

* Not offered in 1908-1909.

21. French Lyric Poetry—the Parnassians and Symbolists.
III.

Open to graduates, seniors, and juniors with permission of the department, who have completed two full college courses in French, including course 7 or its equivalent. One hour a week for a year.

Madame Colin.

A study of the poetic tendencies and movements of the second half of the nineteenth century, and the men who led in them.

11. Old French and Old French Literature. III.

Open to graduates and to seniors by permission of the department. Three hours a week for a year.

Madame Colin.

A study of Old French in numerous extracts and some one old text, with a consideration of the general laws of its phonetic development from Latin to French, and the evolution of its syntax.

GEOLOGY AND MINERALOGY

ASSOCIATE PROFESSOR: † ELIZABETH FLORETTE FISHER, B.S.

GRADUATE ASSISTANT: RUTH WEIR RAEDER, B.A.

LECTURER: GEORGE HUNT BARTON, S.B.

1. Geology. II.

Open to juniors and seniors, and to those sophomores who have completed one year of science. Three hours a week for a year.

Miss Fisher, Mr. Barton.

The work of the atmosphere, rivers, glaciers, oceans, volcanoes, and earthquakes upon the present earth. Records of these are shown in the rocks. The story of the past ages of the earth, and its life as revealed in these structures, and interpreted by these forces. Lectures, recitations, and six field excursions during the year.

† Absent for part of the first semester.

2. Mineralogy. II.

*Open to students who have completed one year of science.
Three hours a week for the first semester.*

Miss Fisher, Mr. Barton.

Lectures and recitations and two hours of laboratory work each week. Characteristics and origin of the more important mineral species. Course includes Blowpipe Analysis and Crystallography. A reference collection is always available for students' use.

3. Advanced Geography. II.

*Open to students who have completed one year of science.
Three hours a week for the second semester.*

Miss Fisher.

Lectures and recitations. Laboratory and field work, equivalent to two hours a week.

This course includes a detailed study of physiography and life relations (Ontography) with a correlation of the two; showing the influence which these features have upon the life, habits, prosperity, and commercial relations of peoples and nations.

† 4. Field Geology. III.

Open to students who have completed course 1. Three hours a week for a year.

Miss Fisher.

Advanced field study with lectures and discussions. The aim of the course is to give students training in the methods of research work in the field. Special problems, areal, stratigraphic, structural, petrographic, physiographic, etc., are assigned for investigation. A small square area is allotted to each student, and the results of the field work are mapped and interpreted for final paper.

The nature of the work is such that consecutive hours are necessary,

† Withdrawn for the current year.

GERMAN

PROFESSOR: MARGARETHE MÜLLER.

ASSOCIATE PROFESSOR: NATALIE WIPPLINGER, PH.D.

INSTRUCTORS: HERMINE CAROLINE STUEVEN,
FLORENCE EMILY HASTINGS, B.A.,
KÄTE WOLTERECK,
FRIDA MARIE RAYNAL, B.A.,
MARIANA COGSWELL, B.A.

- ‡ 1. Elementary Course. Grammar, prose composition, reading, exercises in speaking, memorizing of poetry. I.
Open to all students. Three hours a week for a year.

Miss Raynal, Miss Cogswell.

- ‡ 2. Elementary Course. Topics as in course 1. I.

Open to all students who have completed course 1. Three hours a week for a year.

Miss Hastings.

- † ‡ 3. Reading Course. I.

Open to sophomores beginning German. Three hours a week for a year.

Miss Hastings.

The object of this course is to give the student, through the medium of translation, such a knowledge of German as shall be useful in study of other subjects than German.

- ‡ 4. Intermediate Course. I.

Open to all students who have completed the minimum admission requirement in German. Three hours a week for a year.

Miss Stueven, Miss Hastings.

Courses 2 and 4 are intended to fit students to enter courses 5 and 10.

† First-year German, courses 1 and 3, may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year German, courses 2 and 4, if taken after the junior year. German 1 and French 1 may not *both* be counted toward the B.A. degree.

† Withdrawn for the current year.

5. Grammar and Composition (Intermediate Course). I.

Open to freshmen who have met the maximum admission requirement in German. One hour a week for a year.

Miss Stueven, Miss Woltreck, Miss Raynal.

Review of elementary grammar and study of more advanced grammar. Constant practice in prose composition and freie Reproduktion.

7. Goethe (Advanced Course). III.

Open to students who have completed courses 11 and 22. Three hours a week for the second semester.

Miss Müller.

In this course Goethe is to be studied through those of his works which best represent him as the centre of classicism in Germany: *Italienische Reise, Tasso, Hermann und Dorothea, Briefwechsel mit Schiller*, selected poems, etc.

8. Grammar and Composition (Advanced Course). II.

Open to students who have completed course 2 or 4. One hour a week for a year.

Miss Hastings, Miss Raynal.

The aim of this course is twofold,—to give the student a systematic review of grammar and much exercise in oral and written expression. The material used for conversation and composition is drawn from the life and customs of the German people.

9. History of the German Language. III.

Open to juniors and seniors who have completed course 8 or an equivalent. One hour a week for a year.

Miss Wipplinger.

This course aims to give a fuller and more thorough understanding of the modern idiom through the study of its historical development. Text-book: Behaghel's *Die Deutsche Sprache*.

10. Outline History of German Literature. I.

Open to freshmen who have met the maximum admission requirement in German. Two hours a week for a year.

Miss Stueven, Miss Woltereck, Miss Raynal.

The main object of this course is to familiarize the student with the vocabulary necessary for literary reading and discussion, and to furnish her with a general mythological and historical background for the more detailed study in the courses following this.

11. Goethe's Life and Works (Introductory Course). II.

Open to students who have completed courses 5 and 10 or 15 and 16. Three hours a week for the second semester.

Miss Müller, Miss Woltereck.

Study of the principle characteristics of Goethe's life and works to the time of his literary co-operation with Schiller. Works read and discussed: *Dichtung und Wahrheit* (selections), *Götz von Berlichingen*, *Egmont*, *Iphigenie*, poems, letters.

13. The German Novel. III.

Open to sophomores, juniors, and seniors who have completed courses 5 and 10 or 15 and 16, and to others by permission of the department. Two hours a week for a year.

Miss Müller.

Presentation of the historical development of the German novel, in lectures. Special study of some of the representative novels by Goethe, Jean Paul, Freytag, Keller, Heyse, Storm, Sudermann, etc.

14. Theory of the Drama, illustrated by classic and modern dramas. III.

Open to juniors and seniors who have completed courses 11 and 22. Three hours a week for the first semester.

Miss Stueven.

Treatment of Aristotle's theory of the drama as compared with that of modern theorists like Freytag and Volkelt. The class work will be based on representative classic and modern dramas.

15. History of German Literature I. III.

Open to students who have completed courses 2 or 4. Two hours a week for the first semester.

Miss Wipplinger, Miss Woltereck.

The course consists of lectures, discussions, reading. The aim of this course is to trace the parallel development of the language, literature, social conditions, and religious ideals of the times. The works read and discussed are: the *Hildebrandslied*, *Muspilli*, etc., selections from the *Heliand*, Otfried's *Krist*, the *Waltharilied*, the *Nibelungenlied*, the works of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, according to Thomas's *Anthology*, Scherer's *Geschichte der deutschen Literatur*, Könnecke's *Bilderatlas*.

16. History of German Literature II. III.

Open to students who have completed course 15, and to others by permission of the department. Two hours a week for the second semester.

Miss Wipplinger, Miss Woltereck.

The aim and reference books are the same as in the preceding course. Chief topics: Luther, Brant, Hans Sachs, the *Volkslied*, Grimmelshausen, Gryphius, Klopstock, Wieland, Bürger, etc. Reference books: Scherer, Vogt und Koch, Hettner, etc.

† 17. Middle High German (Introductory Course). III.

Open to juniors and seniors who have completed at least courses 15 and 16. Three hours a week for the second semester.

Miss Wipplinger.

† Withdrawn for the current year.

Survey of Middle High German forms and sounds. Translation of Middle High German epic and lyric poetry into the modern idiom. A knowledge of Old High German is desirable, although not strictly required.

18. The German Romantic School. III.

Open to juniors and seniors who have completed courses 11 and 22, and to others by permission of the department. Three hours a week for the second semester.

Miss Wipplinger.

Reading of works representative of the Romantic School. Reference books: the histories of German literature, by R. Haym, W. Scherer, G. Brandes, R. Meyer, and others.

19. Lessing as Dramatist and Critic. III.

Open to juniors and seniors who have completed courses 11 and 22, and to others by permission of the department. Three hours a week for the first semester.

Miss Müller.

Treatment of Lessing's critical work in literature, theology and æsthetics. Works read and discussed are: *Minna Von Barnhelm*, *Emilia Galotti*, *Nathan der Weise*, *Die Hamburgische Dramaturgie*, *Laokoön*, *Axiomata*, *Anti-Götze*, *Erziehung des Menschengeschlechts*. Reference books: Erich Schmidt's *Lessing*, Kuno Fischer's *Lessing als Reformator der deutschen Literatur*, Kuno Fischer's *Lessing's Nathan*.

† 20. Schiller as Philosopher and Writer on Æsthetics. III.

Open to seniors who have completed course 22, and at least two of the following courses: 13, 14, 16, 18, 19, and to others by permission of the department. Two hours a week for a year.

Miss Wipplinger.

Study of Schiller through his correspondence with Körner, Goethe, etc., and his philosophic-æsthetic poems and essays. These are read and discussed in class.

† Withdrawn for the current year.

21. Goethe's *Faust*, Parts I and II. III.

Open to seniors who have completed at least two of the following courses: 7, 13, 14, 18, 19, and to others by permission of the department. Three hours a week for a year.

Miss Müller.

Extensive study of Goethe's *Faust* (Thomas's and Schröer's editions), Parts I and II. The contrasting of the *Volksbuch von Dr. Faust* with Marlowe's *Faustus* and the *Faust-Puppenspiel*. Study of the genesis of Goethe's *Faust*. Comparison of the *Göchhausen "Urfaust"* and the fragment of 1790 with the completed First Part, etc., etc.

22. Schiller's Life and Works (Introductory Course). II.

Open to students who have completed courses 5 and 10 or 15 and 16. Three hours a week for the first semester.

Miss Wipplinger, Miss Woltereck.

Texts read: Boyesen's *Leben Schillers*, *Die Räuber*, *Wallenstein*, select poems, letters, etc.

23. Studies in Structure and Style. III.

Open to juniors and seniors who have completed course 30 or an equivalent. One hour a week for a year.

Miss Woltereck.

The object of this course is to enable the student to express herself (orally and in writing) not merely with grammatical correctness but in "good style." The methods used in this course are the same as those indicated under course 8.

† 26. Gothic. III. (See Department of Comparative Philology, Course 6.)

Miss Wipplinger.

† Withdrawn for the current year.

27. German Lyrics and Ballads. II.

Open to students who are taking courses 11 and 22. One hour a week for a year.

Miss Stueven.

The work in this course will extend from the *Minnege-sang* through the *Volkslied*, to the lyric poetry of Goethe, Schiller, Heine, and others.

30. Studies in Modern German Idiom. II.

Open to students who have completed courses 5 and 10 or 15 and 16, and to others by special permission. One hour a week for a year.

Miss Hastings.

This course is designed especially as a companion course to courses 11 and 22. A number of modern German texts will be read for the sake of the practical idioms they contain. These will be studied in suggestive groups. The course enables the student to acquire a practical knowledge of the written and spoken German of to-day, and to appreciate the fine turns of expression in the German classics.

* 32. Old High German (Introductory Course). III.

Open to juniors and seniors who have completed at least courses 5 and 10. Three hours a week for the first semester.

The work in this course will be based on Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*.

The language of the class room in all these courses is German, except in course 3. In addition to lectures in German there will be constant exercises in speaking.

There is a well selected library of German books, to which students in the higher German courses are constantly referred.

Students who intend to teach German should take courses in the History of German Literature, also course 9, and if possible, at least one of the following courses: 17, 23, 26, 30.

GREEK

PROFESSOR: ANGIE CLARA CHAPIN, M.A.

ASSOCIATE PROFESSORS: ANNIE SYBIL MONTAGUE, M.A.,

KATHARINE MAY EDWARDS, PH.D.

1. Lysias (selected orations); or Plato: *Apology and Crito*; English into Greek, exercises based on prose read; Homer: *Odyssey* (selections amounting to about 2,500 verses). Studies in Greek life. I.

Open to students who have met the maximum admission requirement. Three hours a week for a year.

Miss Montague, Miss Edwards.

2. Attic Orators: selections; Euripides: one drama. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Montague.

3. Historians. Thucydides: *The Sicilian Expedition*; Herodotus: *The Persian War*; Æschylus: *Persians*. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Edwards.

4. Origin and Development of Greek Drama. III.

Open to students who have completed two full courses. Three hours a week for a year.

Miss Chapin.

Aristotle's Theory of Tragedy. Reading and Criticism of selected dramas; Æschylus: *Prometheus, Agamemnon*; Sophocles: *Ædipus Tyrannus*; Euripides: *Bacchæ*; Aristophanes: *Frogs* (selections). A study of all the extant plays of Æschylus and Sophocles is made by special topics.

5. History of Greek Lyric Poetry. III.

*Open to students who have completed three full courses.
Three hours a week for a year.*

Miss Chapin.

Lectures and readings; Homeric Hymns; Hesiod; elegiac poets: lyric fragments; Pindar; Bacchylides; Theocritus.

* 7. Greek Dialects. III.

*Open to students who have completed three full courses.
Three hours a week for a year.*

Miss Edwards.

A comparative study of the Greek dialects, their characteristics and their relations to each other, with reading and study of inscriptions and selected texts.

8. History of Greek Literature. II.

Open to sophomores, juniors, and seniors who presented the maximum admission requirement in Greek, or who have taken courses 13 and 14. One hour a week for a year.

Miss Chapin, Miss Montague, Miss Edwards.

The course will consist of lectures and readings (in translation) with occasional quizzes. One paper may be required on each semester's work.

The aim of the course will be to make a careful study of the development of Greek literature in the various forms of both prose and poetry.

NOTE.—A limited number of advanced students of literature may be admitted by permission of the department without the prerequisite in Greek.

* 9. Modern Greek. III.

*Open to students who have completed two full courses.
One hour a week for a year.*

Miss Edwards.

The course has two objects: first, a practical one, to give some acquaintance with the spoken and written Greek of to-day; second, a linguistic one, to trace the historical development of the language from classical times to the present.

10. Plato: *Phædo* and selections from other dialogues. Collateral readings from other Greek writers. III.

Open to students who have completed two full courses. Three hours a week for a year.

Miss Montague.

- † 11. Greek Syntax. III.

This course is especially recommended to those intending to teach Greek. Open to students who have completed course 1. Two hours a week for a year.

Miss Montague.

A systematic study of the essential principles of Greek Syntax, illustrated by passages from various authors. Constant practice in translation from English into Greek.

- † 12. Homeric Seminary. III.

Open to students who have completed three full courses. Three hours a week for a year.

Miss Edwards.

Critical study of selected portions of the *Iliad* with discussions and lectures on special problems of Homeric grammar and antiquities, supplemented by the private reading of the greater part of the *Iliad*.

13. Elementary Course. Greek Grammar. Xenophon: *Anabasis*, Book II. Practice in writing Greek. I.

Open to all students. Three hours a week for a year.

Miss Montague.

† Withdrawn for the current year.

14. Xenophon's *Anabasis*, continued. Homer: *Iliad*, 3 books. Sight translation. Prose composition throughout the year based on prose read. I.

Open to students who present the minimum admission requirement in Greek, or who have completed course 13. Three hours a week for a year.

Miss Edwards.

For additional courses see Comparative Philology and Classical Archæology.

For courses in the study of Greek Testament see Biblical History.

HISTORY

PROFESSOR: ELIZABETH KIMBALL KENDALL, M.A.

ASSOCIATE PROFESSORS: JULIA SWIFT ORVIS, PH.D.,
EDNA VIRGINIA MOFFETT, PH.D.

INSTRUCTOR: MABEL ELISABETH HODDER, M.A.

- ‡1. Political History of England to 1603. I.

Open to freshmen, sophomores, and juniors, and to seniors who have taken no college course in history. Three hours a week for the first semester.

Miss Orvis.

- ‡2. Political History of England from 1603 to the present time. I.

Open to sophomores, juniors, and seniors, and to freshmen who have completed course 1, or who offer English History as an admission subject. Three hours a week for the second semester.

Miss Orvis.

The aim of these courses is to train students in the use of historical material and in dealing with historical problems. Emphasis is placed on political, social, and industrial conditions in relation to race development.

‡ Courses 1 and 2, or course 3, are prerequisite to later election.

- ‡3. History of Western Europe from the Fifth Century to the Treaties of Westphalia. I.

Open to freshmen, sophomores, juniors, and seniors. Three hours a week for a year.

Miss Moffett, Mrs. Hodder.

The course deals primarily with mediæval history, connecting it with Rome on the one hand and with modern Europe on the other. It traces the beginnings and the development (to 1648) of the great modern powers of Western Europe. It aims to train students in methods of historical work, and to furnish a background for detailed study of particular periods.

4. History of the French Revolution. II.

Open to sophomores, juniors, and seniors who have completed courses 1 and 2 or course 3. Three hours a week for a year.

Miss Orvis.

This course involves (1) an introductory discussion of the condition of France on the eve of the Revolution; (2) a detailed study of the progress of the Revolution and of the reaction against democratic tyranny culminating in Imperialism; (3) an inquiry into the influence of revolutionary ideas in the subsequent history of France, Germany, Austria, Italy, Spain, and Russia.

5. Constitutional History of England to 1399. II.

Open to juniors and seniors who have completed courses 1 and 2 or course 3. Three hours a week for the first semester.

Miss Moffett.

A study of the development of English constitutional government as an expression of the character of the English people. The course deals with Germanic origins, and with the development of English thought along constitutional lines to the close of the Plantagenet period.

‡ Courses 1 and 2, or course 3, are prerequisite to later election.

6. Constitutional History of England from 1399 to the present time. II.

Open to juniors and seniors who have completed courses 1 and 2 or course 3. Three hours a week for the second semester.

Miss Moffett.

A study of the later development of the English constitution, the rise of party and cabinet government, and the establishment of popular control.

7. History of the United States from 1787. III.

Open to juniors and seniors who have completed courses 1 and 2 or course 3, and have completed or are taking a second course in history. Three hours a week for a year.

Miss Kendall.

A study of the formation and development of the constitution of the United States, with special reference to controlling forces, such as the organization of parties, the growth of democracy, the rise of the slave power, the political effects of the development of the West.

‡ * 8. Europe in the Fifteenth Century. III.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for a year.

Miss Moffett.

A study of the intellectual, religious, and social life of the fifteenth century, and of the institutions and movements, which were its outcome.

* 9. Diplomatic History of Europe since 1740. III.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for a year.

Miss Orvis.

‡ History 8 and History 16 will not both be given in the same year.

* Not offered in 1908-1909.

This course includes (1) a review of the period 1648-1740; (2) the Age of Frederick II; (3) a Survey of the Revolutionary and Napoleonic period; (4) the Age of Bismarck.

11. History of Political Institutions. III.

Open to juniors and seniors who have completed two full courses in history. Two hours a week for a year.

Miss Kendall.

This is an introductory course in the comparative study of the origin, character, development and aim of political institutions.

* 12. Growth of the British Empire. III.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for the second semester.

Miss Kendall.

This course includes (1) a historical review of the development of the empire; (2) a study of the changes of colonial policy; (3) a study of colonial administration, and (4) a discussion of present colonial problems.

13. History of Rome. II.

Open to sophomores, juniors, and seniors who have taken one college course in history, or who are giving special attention to Latin. Three hours a week for a year.

Mrs. Hodder.

This course offers a general survey of Roman History through the reign of Diocletian. The attempt is made to present the problems of recent scholarship in the study of the earlier period, but the main emphasis is placed upon the later Republic and the Empire. Particular attention will be given to the economic and social conditions, and to the development of the Roman system of government.

* Not offered in 1908-1909.

14. American History. II.

- a. Age of Discovery and Conquest.
- b. The American Revolution.

Open to sophomores, juniors, and seniors who have completed or are taking courses 1 and 2 or course 3. Two hours a week for a year.

Miss Kendall.

In the first semester the discovery and exploration of the American continents by the Spanish, English, and French will be treated in detail, to be followed by a study of the contest between the European powers for control in the New World. The second semester will be devoted to a careful consideration of the American Revolution, especial attention being given to the European aspect of the struggle between England and her colonies.

15. International Politics. II.

Open to all seniors and to juniors who have completed or are taking courses 1 and 2 or course 3. One hour a week for a year.

Miss Kendall.

The object of this course is to give a general view of international conditions since the close of the Bismarck period with especial reference to the present relations of Europe, America, and Asia.

‡ 16. Europe in the Sixteenth Century. III.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for a year.

Miss Moffett.

A continuation of course 8, though the latter is not a prerequisite.

A brief introductory survey of conditions in the fifteenth century is followed by a more detailed study of the sixteenth, its movements, and its great personalities.

‡ History 8 and History 16 will not both be given in the same year.

17. Political History of Russia from the earliest times to the present. III.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for a year.

Miss Orvis.

This course includes (1) a study of the forces which have made Russia a world power, and (2) an inquiry into the development and policy of the autocracy, culminating in the present revolution.

18. England in the Fourteenth and Fifteenth Centuries. II.

Open to sophomores, juniors, and seniors who have completed one college course in history, or who are giving special attention to English Literature or Economics. Three hours a week for a year.

Mrs. Hodder.

A study of the political, intellectual, and industrial changes in England in the two centuries of transition from mediæval to modern times.

HYGIENE AND PHYSICAL TRAINING

RESIDENT PHYSICIAN AND HEALTH OFFICER:

KATHARINE PIATT RAYMOND, B.S., M.D.

DIRECTOR OF PHYSICAL TRAINING: LUCILLE EATON HILL.

INSTRUCTOR: ESTELLA FEARON.

ASSISTANT: FLORENCE BACON.

MEDICAL EXAMINER: MYRTELLE MOORE CANAVAN, M.D.

LECTURER: MABEL AUSTIN SOUTHARD, B.S., M.D.

Hygiene

1. Hygiene.

Required of freshmen. One hour a week for a year.

Dr. Raymond.

Lectures and written quizzes. The subject presented is the proper care of the body, and the course is designed to give knowledge of its structure and functions with an understanding of the laws of health. An outline is given of the general principles of domestic and public hygiene.

3. Lectures.

The principles of individual and social hygiene as applied to woman are considered on the basis of her special structure and functions.

For seniors. Not counted in the record of hours.

Dr. Southard.

Physical Training

1. Introductory Swedish Gymnastics.

Open in order of application to all students physically qualified. Two hours a week from November until April.

Miss Bacon.

2. Swedish Gymnastics, Advanced Course.

Open in order of application to sophomores, juniors, and seniors who have completed course 1 or its equivalent, and to freshmen by special permission. Two hours a week from November until April.

Miss Fearon.

3. Corrective Gymnastics.

Open in order of application to all students; required of all sophomores whose physical examination prescribes it. Three hours a week from November until April.

Miss Fearon, Miss Bacon.

For students needing special work.

4. Educational Dancing.

Open in order of application to all students. Two hours a week from November until April.

Miss Hill.

5. Organized Sports.

Archery; basket ball; golf; field hockey; rowing; running and tennis.

Open to all students physically qualified. Three hours a week in the fall and spring terms.

Miss Hill and Field instructors.

Instruction in fencing, riding, and swimming, for which a special fee is charged, is offered under the supervision of the Director of Physical Training.

Courses in physical training are not counted in the record of hours, but all freshmen and sophomores are required to take three hours per week of physical training. This requirement is met in the fall and spring terms by course 5 or by walking; in the winter term by one of courses 1, 2, 3, 4, supplemented by walking and winter sports. Physical exercise registers, showing how the requirement is met, are presented as may be required by the Director of Physical training.

Upon entering College, each student receives a thorough examination given by the Medical Examiner. A series of measurements and observations is also made by the Physical Training Office. Practical work is prescribed on the basis of these examinations.

ITALIAN

ASSOCIATE PROFESSOR: MARGARET HASTINGS JACKSON.

1. Elementary Course. I.

Open to sophomores and juniors. Three hours a week for a year.

Miss Jackson.

Grammar with written and oral exercises; reading and sight translation; conversation.

2. Intermediate Course. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Jackson.

Grammar, prose composition; reading and translation at sight; in the first semester from modern authors; in the second semester from the classic authors.

3. History of Italian Literature in the XIII. and XIV. Centuries. Emphasis on Dante. III.

Open, on consultation with the instructor, to juniors and seniors who have a reading knowledge of Italian. Three hours a week for a year.

Miss Jackson.

Selections from the *Vita Nuova* and the *Divina Commedia* of Dante. The Sonnets of Petrarch and the Tales of Boccaccio will be read in the original.

- † 4. History of Italian Literature in the XIX. Century. III.

Open to students who have completed courses 1 and 2, or equivalents. Three hours a week for a year.

Miss Jackson.

5. Dante and the early Italian Renaissance. English course. II.

Open to juniors and seniors. Three hours a week for a year.

Miss Jackson.

First semester: Dante's *Divine Comedy* (in English) and the conditions of the age which produced it. Second semester: The early Italian Renaissance as expressed in the works of Petrarch, Boccaccio, Niccolò Pisano, Arnolfo, and Giotto. A knowledge of Italian is not required.

NOTE.—The Dante Society offers an annual prize of one hundred dollars for the best essay on a subject drawn from the life or works of Dante. The competition is open to students or graduates of not more than three years' standing from colleges or universities in the United States. For subjects and conditions consult page 523 of the Harvard University Catalogue, 1907-1908.

- * 7. Italian Prose Writers of the Fifteenth and Early Sixteenth Centuries. III.

† Withdrawn for the current year.

* Not offered in 1908-1909.

Open, on consultation with the instructor, to juniors and seniors who have a reading knowledge of Italian. Three hours a week for the first semester.

Miss Jackson.

Selections from the works of Macchiavelli, Guicciardini, Savonarola and other writers of the period will be read in the original.

* 8. Italian Poets of the Fifteenth and Early Sixteenth Centuries. III.

Open to juniors and seniors who have a reading knowledge of Italian, on consultation with the instructor. Three hours a week for the second semester.

Miss Jackson.

Selections from Poliziano, Lorenzo de' Medici, Boiardo, Ariosto, Michael Angelo, Vittoria Colonna will be read in the original.

While courses 7 and 8 are continuous, one being the complement of the other, they may be elected separately.

LATIN

PROFESSOR: ADELIN BELLE HAWES, M.A.

ASSOCIATE PROFESSORS: ALICE WALTON, PH.D.,

CAROLINE REBECCA FLETCHER, M.A.

ASSISTANT: MAUDE EMILY MCCLARY, M.A.

1. Livy, Books XXI, XXII: Cicero, De Senectute; Horace, Odes, Book I. I.

Open to students who have met admission requirement. Three hours a week for a year.

Miss Walton, Miss Fletcher, Miss McClary.

Practice in writing and translation to give facility in reading and flexibility in the use of English in translation.

6. Horace : Pliny's *Letters*. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Walton, Miss McClary.

The *Odes of Horace* with selections from the Epodes and Epistles are studied. The work in Pliny includes careful study of certain letters and the rapid reading of many others.

13. Livy. Ovid's *Fasti*. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Fletcher.

Reading of selections chosen to emphasize the political and religious institutions of the Roman Republic and the Augustan period.

11. Latin Prose Composition. Intermediate Course. II.

Open to students who have completed course 1 and are taking a full course in the department. One hour a week for a year.

Miss Fletcher.

7. Sight reading in prose and verse. II.

Open to students who are taking either course 6 or course 13. One hour a week for a year.

Miss Walton.

4. Comedy. Plautus and Terence. III.

Open to students who have completed two full courses. Three hours a week for the first semester.

Miss Hawes.

This course includes the careful study of two or more plays together with the rapid reading of several others.

5. Satire. Horace and Juvenal. III.

*Open to students who have completed two full courses.
Three hours a week for the second semester.*

Miss Hawes.

This course includes the reading of selected satires of Horace and Juvenal, with study of other Roman satirists by lectures and special topics.

† 10. Latin Prose Composition. III.

Open at the discretion of the instructor to students who have completed course 11 and who are taking a full course in the department. One hour a week for a year.

Miss Fletcher.

12. Outline History of Latin Literature. III.

Open to students who have completed two full courses, and who are taking a full course in the department. One hour a week for a year.

Miss Hawes.

Lectures and readings, with direction of the students' private reading.

The aim of this course is to give a general survey of the subject, tracing the beginnings and development of the various kinds of prose and poetry, and considering the changes in the political and social conditions under which Latin literature developed.

‡ 15. Topography of Rome. Epigraphy. III.

Open to students who have completed two full courses. Three hours a week for a year.

Miss Walton.

Lectures and discussions.

First semester: Architectural History and Topography of Ancient Rome; Studies in Pompeii. Second semester: Latin Epigraphy.

† Withdrawn for the current year.

‡ Archaeology 3 and 4, and Latin 15 are not usually given in the same year.

16. Private Life of the Romans. III.

Open to students who have completed two full courses, and who are taking a full course in the department. One hour a week for a year.

Miss Hawes.

Lectures on various topics illustrating the life of the Romans, readings and discussions.

14. Literature of the Empire. III.

Open to students who have completed three full courses. Three hours a week for a year.

Miss Hawes.

The readings in this course are chosen from a wide range of authors and vary from year to year. Lectures on various aspects of life under the Roman Empire.

*9. Latin Poetry. III.

Open to students who have completed three full courses. Three hours a week for a year.

Miss Hawes.

Selections from Catullus and the Augustans. Poetry of the Empire: the authors read vary somewhat from year to year.

Classical Archæology

† 6. Introduction to Classical Archæology. II.

Open to juniors and seniors who have completed one full course in Latin or Greek. Two hours a week for a year.

Miss Walton.

* Not offered in 1908-1909.

† Withdrawn for the current year.

Outline history of prehistoric remains in Greece and Italy, with special emphasis upon Mycenæ and Crete; introductory study of Greek vases, Greek and Roman coins, painting, bronzes and gems.

- * † 3. Topography of Greek sites with special reference to Athens. III.

Open to students who have completed three full courses in Greek. Three hours a week for the first semester.

Miss Walton.

The work will be based upon the text of Pausanias, in which there will be practice in rapid reading, besides close study of architectural history based on certain portions.

- * † 4. History of Greek Ceramics. III.

Open to seniors who have completed course 6 or 3. Three hours a week for the second semester.

Miss Walton.

So far as possible, the work will be illustrated by the vase collection in the Boston Museum of Fine Arts.

- * 5. Greek Mythology illustrated in Art. II.

Open to students who have completed two full courses in Greek, and to others upon consultation. One hour a week for a year.

Miss Walton.

First semester: Olympic deities; Greek stories of Cosmogony; minor mythological figures. Second semester: Stories of the heroic age; legends of Troy, Thebes and of the Atreidæ, including Iphigenia and Orestes.

The legends will be traced from their literary sources, and amply illustrated from reliefs, statuary, coins, and vase paintings.

* Not offered in 1908-1909.

† Archæology 3 and 4 and Latin 15 are not usually given in the same year.

APPLIED MATHEMATICS

PROFESSOR: ELLEN HAYES, B.A.

1. Introduction to the Mathematical Treatment of Science.
II.

Open to sophomores, juniors, and seniors who have completed Pure Mathematics 1. Three hours a week for a year.

Miss Hayes.

An introduction to the mathematical treatment of science, containing the practical essentials of calculus and analytic geometry and the elements of mechanics. (*The required freshman mathematics may be combined with this course and other courses in applied mathematics to form a restricted elective.*)

† 3. Thermodynamics. III.

Open to students who have completed course 1. Three hours a week for the first semester.

Miss Hayes.

4. Theoretical Mechanics. III.

Open to students who have completed course 1. Three hours a week for the first semester.

Miss Hayes.

This course is a continuation of course 1, and is devoted to the further development of the principles of kinematics, statics, and kinetics.

5. Geodynamics. III.

Open to juniors and seniors properly qualified. Three hours a week for the second semester.

Miss Hayes.

Both the astronomical and geological aspects of the subject are emphasized. In general, the topics discussed are: precession, nutation; form, size, density of the earth; thermal condition of the earth; theories concerning its crust.

† Withdrawn for the current year.

PURE MATHEMATICS

PROFESSOR: ELLEN LOUISA BURRELL, B.A.

ASSOCIATE PROFESSORS: † EVA CHANDLER, B.A.,
HELEN ABBOT MERRILL, PH.D.,
† ROXANA HAYWARD VIVIAN, PH.D.

INSTRUCTORS: MIRIAM HATHAWAY, B.A.,
MABEL MINERVA YOUNG, M.A.,
LOUISE EMMA SYLVESTER, B.A.

ASSISTANT: CLARA ELIZA SMITH, PH.D.

I. Required course for freshmen. I.

Four hours a week for a year.

(a) Solid and Spherical Geometry.

Three hours, first semester.

(b) Higher Algebra.

One hour, first semester; two hours, second semester.

The subjects included are: Functions and Theory of Limits, Derivatives, Development of Functions in Series, Convergency of Series, Theory of Logarithms, Determinants, Theory of Equations (including Sturm's Theorem). (Taylor's *College Algebra*.)

(c) Plane Trigonometry.

Two hours, second semester.

The angular analysis, including transformation, trigonometric equations and inverse functions, is fully treated, as well as the solution of triangles and the practical use of the tables.

Miss Merrill, Miss Hathaway, Miss Young,
Miss Sylvester, Miss Smith.

2. Conic Sections and Plane Analytical Geometry. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Merrill, Miss Hathaway.

A brief course in geometrical conics is given in connection with the usual analytical work, with correlated work in geometrical drawing.

† Absent on leave.

3. Differential and Integral Calculus. III.

Open to students who have completed course 2. Three hours a week for a year.

Miss Burrell.

The applications include a course in curve tracing.

12. Algebraic and Trigonometric Analysis. II.

Open to students who have completed course 1 and are taking or have completed course 2. One hour a week for a year.

Miss Burrell.

Fundamental concepts and laws; development of the number system of algebra; graphic representation; trigonometry as a part of pure algebra; De Moivre's Theorem; the fundamental theorem of algebra; further work in series; the generalized logarithm; hyperbolic functions.

* 4. Theory of Equations, with Determinants. III.

Open to students who have completed course 3. Three hours a week for the first semester.

Miss Chandler.

The work is based on Burnside and Panton's Theory of Equations.

* 5. Solid Analytical Geometry. III.

Open to students who have completed course 3. Three hours a week for the second semester.

Miss Chandler.

The straight line; the plane; surfaces of the second order. Brief study of surfaces in general.

6. Modern Synthetic Geometry. III.

Open to students who have completed course 2. Three hours a week for a year.

Miss Burrell.

Metrical and projective properties of plane and sheaf forms of the first and second orders; the anharmonic

* Not offered in 1908-1909.

ratio: harmonic forms; the method of inversion; involution; collineation; the law of duality; theory of poles and polars; reciprocation; space forms and surfaces of the second order. Given by lectures and references, with constant practice in the solution of geometrical problems.

† 9. Higher Analysis. III.

Open to students who have completed course 3. Three hours a week for a year.

Miss Merrill.

Functions of a real variable, including definite integrals, elliptic integrals, infinite series and products, Beta and Gamma functions. Introduction to the theory of functions of a complex variable.

† 10. Differential Equations. III.

Open to students who have completed course 3. Three hours a week for a year.

Miss Chandler.

A general course in ordinary and partial differential equations.

† 11. Analytical Projective Geometry. III.

Open to students who have completed course 3, and have completed or are taking course 6. Three hours a week for a year.

Miss Burrell.

A lecture course, introductory to the principles of modern geometry.

NOTE.—Attention is called to the following arrangements for doubling mathematical courses: Course 3 may be taken, with the approval of the instructor, at the same time with course 2. Courses 4 and 5 or course 6 may be taken with course 3. Course 11 may be taken with course 6. Any of the courses for which 3 is a prerequisite may be taken together.

† Withdrawn for the current year.

MUSIC

PROFESSOR: HAMILTON CRAWFORD MACDOUGALL, MUS.D.

ASSOCIATE PROFESSOR: CLARENCE GRANT HAMILTON, M.A.

INSTRUCTORS: EMILY JOSEPHINE HURD,
EDITH ESTELLE TORREY,
HETTY SHEPARD WHEELER, M.A.,
ALBERT THOMAS FOSTER.

GRADUATE ASSISTANT: ALICE CRARY BROWN, B.A.

I. Musical Theory

The courses in theory and history are open to all students without regard to previous musical knowledge, and count toward the B.A. degree. The history and theory courses are subject to no separate tuition fee, with the exception of courses 9, 10, 11, and 12, where a nominal fee of five dollars is charged for tuning and repairs of instruments. Courses 8, 4, and 14, are designed especially for those students desiring to gain an appreciative knowledge of musical literature. Courses 4 and 14 are mutually exclusive. Courses 8 and 15 are also mutually exclusive.

15. Elementary Theory. I.

Open only to freshmen who are taking practical music. Two hours a week for a year. No prerequisites.

Miss Wheeler.

This course is designed for freshmen who enter college with the intention of specializing in music. It may be followed by course 1, but not by course 8. This course covers elementary acoustics, modern musical notation, diatonic and chromatic scales, invention and harmonization of melodies, invention and harmonization of basses, up to and including the chord of the dominant seventh.

8. Foundation Principles. I.

Open to sophomores, juniors, seniors, and advanced freshmen (five year music course.) Three hours a week for a year. No prerequisites.

Mr. Macdougall.

This course covers the ground necessary for admission to courses 1 or 4, and also offers a substantial foundation

for subsequent work in practical or theoretical music. It includes the study of elementary acoustics in its relation to music; the intervals; the modern scales; the formation and connection of the fundamental triads and the dominant-seventh chord; the elements of rhythm and melody. Much attention will be devoted to ear training, and to the realization of the principles of the course in choral practice.

This course is not open to students who have taken course 15.

1. Harmony. II.

Open to students who have completed course 15 or course 8. Three hours a week for a year.

Mr. Hamilton.

This course covers the formation and interconnection of chords; modulation; non-harmonic tones; analysis of harmony in standard works; invention of melodies and the expansion of the harmonic accompaniment. The course aims to give facility in elementary composition.

9. Applied Harmony. II.

Open to those students only who are at the same time taking course 1. Two hours a week for a year. A laboratory fee of five dollars is attached to this course.

Mr. Hamilton.

This course aims to realize synthetically at the pianoforte the principles taught in course 1, following what may be termed a laboratory method.

NOTE.—Instruction will be given in small classes of not less than three students. The course is in no sense a substitute for pianoforte lessons. Students must satisfy the head of the department that they have a pianoforte technique adequate for the work; in general, the ability to play the easier Mendelssohn Songs without Words, and to read hymn tunes accurately at sight will be sufficient.

4. The Development of the Art of Music. III.

Open to students who have completed course 8 or course 1. Three hours a week for a year.

Mr. Macdougall.

A course in the appreciation of music designed to develop musical perception and the ability to listen intelligently to the best music. It includes the evolution of rhythm, harmony, and melody, and their powers and offices in musical expression; the principal musical forms analytically considered; studies of the principal composers, their lives, their strongest works, their relation to the progress of musical art. Some great work will be selected for study during the year.

This course is not open to students who have taken or are taking course 14.

† 10. Applied History. III.

Open to those students only who are at the same time taking course 4. Two hours a week for a year. A laboratory fee of five dollars is attached to this course.

Mr. Macdougall.

This course aims to realize synthetically at the piano-forte the development of music from the organum of Hucbald to the Wagner opera. Specimens of the music of various schools and periods will be collected, played, and analyzed. See note to course 9.

6. Counterpoint. III.

Open to students who have completed course 1. Three hours a week for the first semester.

Mr. Macdougall.

Counterpoint in two, three, and four voices; double counterpoint; analysis; the distinctions between strict (modal) and free counterpoint; the rules for the latter deduced from contemporaneous practice; fugue for two and three voices.

† Withdrawn for the current year.

† 11. Applied Counterpoint. III.

Open to those students only who are at the same time taking course 6. Two hours a week for the first semester. To this course a laboratory fee of two dollars and a half is attached.

Mr. Macdougall.

This course aims to realize synthetically at the piano-forte the laws of simple and double counterpoint by the constant playing and analysis of the best examples from the masters. See note to course 9.

7. Musical Form. III.

Open to students who have completed course 6. Three hours a week for the second semester.

Mr. Macdougall.

This course aims to cover the various imitative forms, the suite and sonata forms, the large forms of vocal and orchestral music.

Students have the opportunity of doing practical work in composition (song form, sonata movements, etc.).

† 12. Applied Form. III.

Open to those students only who are at the same time taking course 7. Two hours a week for the second semester. To this course a laboratory fee of two dollars and a half is attached.

Mr. Macdougall.

This course aims to play and to analyze a great number of specimens of the various forms, with careful analysis and classification. See note to course 9.

14. History of Music. I.

Open to sophomores, juniors, and seniors. Three hours a week, counting as two. No prerequisites.

Mr. Hamilton.

† Withdrawn for the current year.

A non-technical course in the history of the music of all nations, for which no previous knowledge of music is required. One appointment each week will be devoted to illustrative programs.

This course is not open to students who have taken or are taking course 4.

This course, unless combined with courses 15 and 1, cannot count as one of the courses necessary for sophomores, juniors, and seniors who are taking lessons in practical music.

13. The Symphony from Joseph Haydn to the Present Time. III.

Open to students who have completed courses 1 and 4 (or their equivalent), and who have some facility in playing the pianoforte. Three hours a week for a year.

Mr. Macdougall.

A historical course, tracing the development of the Symphony in its form, its instrumentation, and its content.

A limited number of tickets for reserved seats at the Boston Symphony concerts are free to students in the department who are able to use them profitably. In connection with these concerts the department will give weekly analyses of the programs in Billings Hall, with instrumental and vocal assistance.

II. Practical Music (Instrumental and Vocal Lessons)

[Attention is called to the fact that a good student need not necessarily spend five years in college in order to carry on practical music at the same time with the academic course. See (a) below.]

It is believed that students having a command of pianoforte or organ technique will be able to profit by the theoretical instruction given in the department to a fuller degree than those without such a technique. To encourage students to acquire a technique, as well as to furnish authoritative instruction, the department undertakes to give lessons in pianoforte, organ and violin playing and in singing. Practical work is an elective, and students should notify the department of their election of the subject in the usual manner and at the proper time; with the exception of the applied music

courses, 9, 10, 11, 12, practical work does not count toward the B.A. degree. It is offered to all students, whether candidates for degrees or not, as stated below:—

(a) *Candidates for the B.A. degree who propose to spend but four years in college may take practical music*, provided that they obtain each year the permission of the Dean of the College as well as of the Professor of Music; they must also take musical theory unless they have completed two three-hour courses in the subject. This requirement may be met, however, by students taking courses 15, 1, and 14.

(b) *Candidates for the B.A. degree who are willing to devote five years to the college course* will be permitted to take practical music each year of the course. Freshmen may do so without taking Musical Theory, but all other students in the academic and musical course are governed by the restriction laid down in (a).

(c) *Candidates for the B.A. degree who wish also the Certificate of the Department of Music* should plan to devote *five years to the college course*. Such students are required to take practical music, two lessons a week, throughout the five years. They must complete, satisfactorily to the department, a course in the literature of the instrument chosen or of the voice; they must apply for the certificate at least three years in advance. After the first year the study of Musical Theory is required.

(d) *Students not candidates for the B.A. degree who desire to specialize in Music* must meet the requirements prescribed for admission to the freshman class, and must in addition pass an examination on the rudiments of music. This examination will be based upon W. H. Cummings' *Rudiments of Music* (No. 2 of Novello Company's Music Primers), chapters 6, 9, and 10 omitted. Special students must take both Musical Theory and vocal or instrumental lessons, two a week, with not less than twelve hours of weekly practice. They must also take from six to nine hours per week of academic work, including Musical Theory, as may be decided in consultation with the Dean.

(e) *Students not candidates for the B.A. degree who wish the Certificate of the Department of Music* must comply with the conditions laid down in (d); moreover the academic work taken must include modern languages. Such students must apply for the certificate on entering the department, and must have already acquired the fundamental technique of the instrument chosen or of the voice. The time occupied in study for the certificate depends upon the talent, upon the proficiency of the student at entrance, and upon

her subsequent diligence; but in general four years at least are necessary. The various courses are so arranged that the pupil on completion will have an acquaintance with the best musical literature.

(f) Graduates of Wellesley College or of other institutions may make special arrangement for instrumental or vocal lessons.

(g) Permission to practice in Music Hall cannot be given to students not regularly registered in the department.

(h) Students whose progress is not satisfactory may be required to discontinue their lessons.

For tuition and other charges in the Department of Music see page 135.

PEDAGOGY

ASSOCIATE PROFESSOR: ANNA JANE MCKEAG, PH.D.

2. History of Education. Educational theories. II.

Open to juniors and seniors. Three hours a week for a year.

Miss McKeag.

This course aims to present a general view of the great movements in education, to trace the development of its institutions, and to select characteristic features of its accepted systems. Emphasis is placed on modern educational theories.

1. Science of Education. II.

Open to seniors who have completed the requirement in Philosophy. Three hours a week for a year.

Miss McKeag.

This course attempts to base principles of education upon the data of science. It includes, among the topics presented, the educative influence of primitive arts and industries, school hygiene, educational processes at various stages of the child's development, and educative material suitable at different periods of the child's life.

* 3. Introduction to Experimental Pedagogy. II.

Open to seniors who have completed the requirement in Philosophy and to graduates. Two hours a week for a year.

Miss McKeag.

A brief survey of the results of experimentation in the field of education. A study of effective methods of investigation. Written reports of statistical and experimental inquiries.

4. Secondary Education. II.

Open, by permission of the department, to seniors and to graduates. Three hours a week for a year.

Miss McKeag.

The aim of this course is to give a brief historical survey of the development of secondary schools in England, France, and Germany, with a more detailed study of secondary schools in the United States. The organization, administration, and curriculum of high schools in some of the larger cities will be presented. A considerable part of the course will be devoted to a study of principles of education in their application to problems of the secondary schools.

† 8. Philosophy and Art of Teaching. III.

Open, on the approval of the department, to graduates who have completed course 1 or 2. Two hours a week for a year.

Miss McKeag.

This course attempts to present both the philosophy and the art of instruction. It considers the nature and elements of the teaching process; aims and ideals in school-room practices, and the basis of methodology. It examines in some detail the art of study, and briefly considers discipline and incentives.

* Not offered in 1908-1909.

† Withdrawn for the current year.

* 9. Methods of Teaching. III.

Open to students who have completed course 8. Four hours a week for the second semester.

This course considers methods of teaching elementary school subjects, and discusses from a similar point of view the teaching of English and foreign languages, history, science, and mathematics in secondary schools.

COMPARATIVE PHILOLOGY

PROFESSOR: HENRIETTE LOUISE THÉRÈSE COLIN, PH.D., OFF. I. P.

ASSOCIATE PROFESSORS: KATHARINE MAY EDWARDS, PH.D.,
LAURA EMMA LOCKWOOD, PH.D.,
NATALIE WIPPLINGER, PH.D.

I. General introduction to the Science of Language. III.

Open to seniors, and to juniors by permission of the instructor. Two hours a week for a year.

Miss Edwards.

Lectures on the origin and nature of language and principles of its life and growth; outline studies in phonetics; classification of languages; groups of Indo-European languages with chief characteristics.

* 5. Sanskrit. III.

Open to seniors, and to juniors by permission of the instructor. One hour a week for a year.

Miss Edwards.

† 6. Gothic. (German 26.) III.

Open to seniors, and to juniors by permission of the instructor, who offer at least a reading knowledge of German. Three hours a week for the first semester.

Miss Wipplinger.

Reading of Ulfilas, with constant reference to the syntax, phonology, and etymology of the language. Presentation of fundamental principals in Germanic Philology.

* Not offered in 1908-1909.

† Withdrawn for the current year.

8. Old English (English Language 4). III.

Open to graduates, and to seniors by permission of the department. Three hours a week for a year.

Miss Lockwood.

A study of Old English inflections, phonology, and syntax. The reading of the best pieces of literature in Old English prose and poetry. A particular problem in either literature or language is assigned to each student for investigation.

9. Old French (French II). III.

Open to graduates and seniors by permission of the department. Three hours a week for a year.

Madame Colin.

A study of Old French in numerous old texts with a consideration of the general laws of its phonetic development from Latin to French, and the evolution of its syntax. Lectures, critical reading, papers on special subjects.

PHILOSOPHY AND PSYCHOLOGY

PROFESSOR: MARY WHITON CALKINS, M.A.

ASSOCIATE PROFESSORS: MARY SOPHIA CASE, B.A.,
ELEANOR ACHESON McCULLOCH GAMBLE, PH.D.

LECTURERS: HUGO MÜNSTERBERG, M.D., LL.D., LITT.D.,
GEORGE SANTAYANA, PH.D.

INSTRUCTOR: LAWRENCE WOOSTER COLE, M.A.

GRADUATE ASSISTANT: FLORA MACKINNON, B.A.

The requirement in philosophy for a degree is met by course 7 (full year course), or by course 1 (first semester) followed in the same year by course 6 or course 16 (second semester). Courses 1 and 7 are not both open to the same student.

The department offers direction to graduate students in independent work in psychology and in philosophy.

3. Logic. I.

Open to sophomores and juniors who are taking either another course in the department or English Composition 2 or 4. One hour a week for a year.

Miss Gamble.

Training in argument and in logical criticism. Work expressly designed to meet the practical needs of the student.

Psychology

7. Introductory Course in Experimental Psychology. I.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Miss Gamble.

This course aims to insure to students an acquaintance with primary mental facts, to give them a definite notion of the topics treated and of the experimental and statistical methods employed in psychology, and to fit them for more advanced psychological work. The course will be based primarily upon an outline prepared by the instructor. Supplementary text-books; Calkins: *An Introduction to Psychology*; Seashore, *Elementary Experiments in Psychology*.

The work in psychology will be supplemented by a brief course introductory to philosophical study. Berkeley's *Principles of Human Knowledge* will be read.

1. Introduction to Psychology. I.

Open to sophomores, by permission of the department, and to juniors and seniors. Three hours a week for the first semester.

Miss Calkins.

The purpose of this course is to study conscious selves as related to their environment. The course should furnish a basis for the study of ethics, of pedagogy, or of metaphysics. Calkins: *An Introduction to Psychology*

18. Advanced Course in General Experimental Psychology. III.

Open to graduate students, and, by permission, to other students who have completed course 7 or course 1. Three hours a week for a year.

Mr. Cole.

The purpose of this course is to offer thorough training in experimentation as demonstrative of the principal facts and theories of normal psychology. Special stress will be laid upon the use of apparatus. The course is designed to meet the needs of those who expect to teach psychology, or to engage in advanced psychological research. Titchener: *Experimental Psychology*.

14. Reading and Research Course in Psychology. III.

Open to students who have completed course 7, and to students who have completed, or who are taking, course 18. Three hours a week for a year.

Miss Gamble.

Investigation, experimental or statistical, by individual students of special problems; written reports. Meetings of the class for the reading of French or of German psychological texts.

† 15. Second Research Course in Psychology. III.

Open to graduate students, and to others by permission, as a fourth course in psychology. Three hours a week for a year.

Miss Gamble.

Philosophy

Courses 6 and 16 are open also as elective courses, but they may not both be carried by a student who has completed, or is carrying, course 7.

Only one of the three courses, 11, 12, and 13, will ordinarily be offered in the same year.

† Withdrawn for the current year.

16. Social Ethics. I.

Open to juniors and seniors who have completed course 1 or course 7. Three hours a week for the second semester.

Miss Case.

Ethics approached from the social side. Lectures on social psychology and on the scope of social philosophy, the nature of society and social institutions, and the nature of the good. Reading of ethical texts, primarily of Plato's *Republic*

6. Introduction to Philosophy. I.

Open to students who have completed course 1 or course 7. Three hours a week for the second semester.

Miss Calkins.

The aim of this course is the discussion of metaphysical problems, such as the relation of spirit to matter, and the conception of causality. The discussion will be based upon Descartes's *Meditations*, selections from Hobbes's *Concerning Body*, Berkeley's *Principles of Human Knowledge* and *Dialogues between Hylas and Philonous*, and upon Calkins's *The Persistent Problems of Philosophy*.

10. Greek Philosophy. II.

Open to students who have completed or who are taking course 1 or course 7. Three hours a week for a year.

Miss Case.

Text study, lectures, discussions. Fragments of the pre-Socratic philosophers; Xenophon's *Memorabilia* (selections); Plato: most of the dialogues, with critical study of the more important passages; Aristotle: *Metaphysics*, Book I. and selections; *Psychology* and *Ethics*, extended passages. Lectures on post-Aristotelian philosophy.

9. Second Course in Modern Philosophy. III.

Open to juniors who are taking course 10 and to seniors. Three hours a week for a year.

Miss Calkins.

Lectures and discussions. Text study of Leibniz's *Discourse on Metaphysics*, and other writings; Hume's *Enquiry*, and *Treatise*, selections from Book I.; Kant's *Critique of Pure Reason* (with omissions), and selections from his ethical works; Spinoza's *Ethics* and Fichte's *Vocation of Man*. Lectures on the philosophy of Kant and of the post-Kantian German philosophers, and on problems of metaphysics.

2. Æsthetics. III.

Open to students who are taking a full elective course in the department and, by permission only, to students who have completed such a course. One hour a week for a year.

Mr. Münsterberg, Mr. Santayana, Miss Calkins.

First semester: Lectures and discussions on the principles of æsthetics. Second semester: Lectures on systems of æsthetics; a report by each student on a topic of Plato's, Kant's, or Schopenhauer's Æsthetics. Supplementary text-book: Puffer, *The Psychology of Beauty*.

* 11 Advanced Course in Modern Philosophy. III.

Open by permission as fourth course of a major subject. Prerequisites must be arranged with the department. Three hours a week for a year. It is expected that this course will be offered in 1909-1910.

Miss Calkins, Miss Case.

Lectures, reports of special study; discussions. Subject of the course varied from year to year. In 1906-1907, text study of Spinoza's philosophical works, and of Hegel's *Logic* (of the *Encyclopedia*).

* Not offered in 1908-1909.

12. Philosophy of Religion. III.

Open by permission as the fourth course of a major subject. Prerequisites must be arranged with the department. Three hours a week for a year.

Miss Case, Miss Calkins.

Lectures, reports of special study, discussions. Subject varied from year to year. In 1908-1909, the work is based on Hegel's *Philosophy of Religion*.

* 13. Historical Studies in Ethics. III.

Open by permission as fourth course of a major subject. Prerequisites must be arranged with the department. Three hours a week for a year.

Miss Case, Miss Calkins.

Lectures, reports of special study, discussions. Subject varied from year to year. In 1907-1908: the ethical systems of Hegel and of Aristotle, as related to their metaphysical doctrines.

19. Constructive Treatment of Problems in Metaphysics. III.

Open, by permission, to graduate students. Two hours a week for the second semester.

Miss Calkins.

Discussions, constructive in aim. Collateral reading. Subject in 1906-1907: pragmatism; for 1909: contemporary realism.

† 20. Special Historical Studies in Philosophy. III.

Open, by permission, to graduate students. Three hours a week for the first semester.

Miss Case.

Subject in 1907-1908: Plato's earlier contribution to logic.

* Not offered in 1908-1909.

† Withdrawn for the current year.

PHYSICS

PROFESSOR: SARAH FRANCES WHITING, D.Sc.

ASSOCIATE PROFESSOR: GRACE EVANGELINE DAVIS, M.A.

INSTRUCTOR: EMMA A. RUPPERSBERG, M.S.

ASSISTANT: MARGARET E. SAWTELLE, B.A.

GRADUATE ASSISTANT: ERNESTINE WELLS FULLER, B.A.

1. General Physics. I.

Open to all undergraduates. Three hours a week for a year.

Miss Ruppertsberg, Miss Sawtelle, Miss Fuller.

This course consists of lectures illustrated with many experiments, followed by laboratory work. The elementary principles of Mechanics, Sound, Electricity, Light are outlined. Special attention is given to the explanation of the phenomena of everyday life.

3. Heat, Light, and Electricity. II.

Open to sophomores, juniors, and seniors who have completed course 1 or an equivalent. Three hours a week for a year.

Miss Davis.

This course presupposes an acquaintance with the general principles of Physics, and aims to be more intensive in its work. Only the best instruments of precision are used, and training is given in the handling of apparatus and in the discussion of results.

Special attention is given to the needs of those preparing to teach.

† 4. Selected subjects in Light and Electricity, mathematically treated. II.

Open to juniors and to seniors who have completed course 3 and also course 1 in Applied Mathematics or course 3 in Pure Mathematics. Three hours a week for a year.

Miss Whiting.

† Withdrawn for the current year.

Text-books : First semester, Preston's *Theory of Light* ; second semester, J. J. Thomson's *Mathematical Theory of Light and Electricity*, with reference reading.

It is possible to combine one semester of this course with either 5 or 8.

5. Advanced Optics. III.

Open to students who have completed course 3. Three hours a week for the second semester.

Miss Whiting, Miss Davis.

Polarized light, measurement of wave lengths with plane grating, mapping spectra with Filar micrometer, photographing spectra with concave grating spectroscope through color screens, measurement of photographs with measuring machine, work with interferometer.

8. Advanced Electricity. III.

Open to students who have completed course 3. Three hours a week for the first semester.

Miss Whiting, Miss Davis.

Precise measurements of electrical units, Hertzian waves, discharge through gases, Roentgen ray photography, radio-activity, modern theories.

The aim of courses 5 and 8 is to present modern theories, with evidence for them gathered from individual work and consultation of original memoirs, and to develop the power of independent thought and experiment.

6. Meteorology. II.

Open to students who have had an elementary course in Physics in college or in preparatory school. One hour a week for a year.

Miss Davis.

Text-books : Davis's *Meteorology*, Ward's *Practical Exercises*. Making of weather maps ; study of clouds, cold waves, progress of storms, weather prediction.

SPANISH

INSTRUCTOR: CAROLINA MARCIAL, B.A.

1. Elementary Course. I.

Open to juniors and seniors. Three hours a week for a year.

Miss Marcial.

Drill in pronunciation and elements of the language. Sauer: *Grammar*; prepared and sight translations, oral exercises; *Doce Cuentos Escogidos*; Alarcón: *El Capitán Veneno*; Galdós: *Marianela*; Becquer: *Leyendas y Poesias Escogidas*; Cervantés: *El Cautivo* from *Don Quijote*. Themes, reports and collateral reading on Spanish subjects and literature.

2. Intermediate Course. II.

Open to students who have completed course 1. Three hours a week for a year.

Miss Marcial.

Grammar of the Spanish Academy. Modern Literature. Valera: *El Pájaro Verde y Pasarse de Listo*; Galdós: *Doña Perfecta*; Echegaray: *El Gran Galeoto*; Palacios Valdés: *La Hermana San Sulpicio*. Authors of the Golden Age; *Ballads and Legends*; *El Cid*; *Lope de Vega*; *La Estrella de Sevilla*; Calderón: *La Vidu es Sueño*; Cervantés: Extracts from *Don Quijote*.

ZOOLOGY AND PHYSIOLOGY

PROFESSOR: † MARY ALICE WILLCOX, PH.D.

ASSOCIATE PROFESSOR: MARION ELIZABETH HUBBARD, B.S.

INSTRUCTORS: CAROLINE BURLING THOMPSON, PH.D.,
ALICE ROBERTSON, PH.D.,
CARRIE MAUD HOLT, M.A.,
MARGARET HARRIS COOK, PH.D.

LECTURER: HERBERT WILBUR RAND, PH.D.

CURATORS: ALBERT PITTS MORSE,
JULIA ANN WOOD HEWITT, B.A.

1. The Biology of Animals. I.

Open to freshmen and sophomores. Three hours a week for a year.

Miss Hubbard, Miss Thompson
Miss Roberston, Miss Holt, Miss Cook.

† Absent on leave.

This course is conducted by lectures and laboratory and field work.

The student becomes familiar with a series of types of invertebrates and with one vertebrate, the frog. Each animal is studied in its structure, physiology, life history, and economic importance, and in addition attention is directed to its haunts, its food, its instincts and habits and its adaptations to its surroundings.

The study of birds constitutes a part of the work.

This course aims to train the student in accurate observation. Attention is directed continually to fundamental biological principles, special emphasis being placed on the facts of evolution.

2. Zoology of Vertebrates. II.

Open to juniors and seniors, and to sophomores who have completed course 1. Three hours a week for a year.

Mr. Rand, Miss Holt.

This course aims to do for the vertebrates much what course 1 does for the invertebrates. It is opened by a careful and detailed study of the dogfish as a type of the group, followed by briefer study of the smelt or herring. This work on aquatic vertebrates is succeeded by similar studies of amphibious, aërial, and terrestrial ones. The aim throughout is both to trace the progressive modifications of the vertebrate type, together with those adaptations which fit its members for varying modes of life, and also to point out the interrelations between human life and that of the lower vertebrates.

Courses 1 and 2 together will meet the requirement in Biology of the Johns Hopkins Medical School.

5. Advanced Invertebrate Zoology. III.

Open to students who have completed courses 1 and 2, and with the approval of the head of the department, to juniors and seniors who have completed course 1. Three hours a week for the first semester.

Miss Robertson.

Lectures, laboratory, and field work with special reference to local fauna, both marine and fresh water. Primarily for those intending to teach Zoology.

* 6. Philosophical Zoology. III.

Open, with the advice of the head of the department, to students who have taken course 2 and one other course. Three hours a week for the year.

Miss Willcox.

Theoretical problems of biology. Lectures on evolution, variation, and heredity, the discussion of these and related facts, and the current biological theories.

7. Insects. III.

Open to students who have completed courses 1 and 2, and, with the approval of the head of the department, to juniors and seniors who have completed course 1. Three hours a week for the second semester.

Miss Thompson.

Lectures, laboratory, and field work with reference to the different groups of insects, especially with the commoner forms. Primarily for those intending to teach Zoology.

8. Embryology and Cell Structure. III.

Open to juniors and seniors who have completed or are taking course 2. Three hours a week for a year.

Miss Thompson.

Lectures and laboratory work upon the structure of animal cells and tissues, the embryology of the chick and certain other vertebrates. Instruction in technique forms a part of the laboratory work.

10. Physiology. III.

Open to students who have completed course 2. Three hours a week for a year.

Miss Robertson.


Lectures and laboratory work dealing with experimental and theoretical questions in Human Physiology. Each student arranges and uses the apparatus necessary for almost all experiments, but some of the more difficult are performed by the instructor, assisted in turn by the different members of the class.

COLLEGE EXAMINATIONS

An examination period occurs at the end of each semester. At these periods, and also during the days of the admission examinations in September, examinations for the removal of conditions and deficiencies and for advanced standing may be taken.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year, must apply to the Dean for the requisite card of admission to the examination. The last day for receiving applications for such cards is *for the September examinations, September first; for the mid-year examinations, January fifteenth; for the June examinations, June first.*

N. B. Examinations for the removal of conditions and deficiencies excepted, no student can be admitted to examination upon a course which is not a part of her approved schedule for the year without permission both from the Head of the Department concerned and the Dean of the College. *No student, therefore, should enter upon preparation for such an examination until her plan has been approved by both of the above named officers.*

 The College reserves the right to require the withdrawal of students whose scholarship is not satisfactory.

DEGREES

The following degrees are conferred by the Trustees upon recommendation of the Academic Council :—

Bachelor of Arts.

Master of Arts.

REQUIREMENTS FOR THE B.A. DEGREE

Every candidate for the B.A. degree must complete before graduation the equivalent of fifty-eight hours.* Since 1896, two grades in work which reaches the passing mark have been

*This requirement of fifty-eight instead of fifty-seven hours applies to the class of 1911 and all succeeding classes.

distinguished: one, "*Passed*"; the other, "*Passed with Credit*." In order to be recommended for the degree of Bachelor of Arts, a student must have "passed with credit" in at least thirty-four* hours, of which nine hours have been accomplished in the junior and nine in the senior year. First-year French and first-year German may not *both* be counted among the fifty-eight hours. *Neither* first-year French nor first-year German may be so counted if taken after the sophomore year, and neither second-year French nor second-year German if taken after the junior year. Of the fifty-eight hours required for the B.A. degree, a certain number is prescribed, the rest elective.

I. PRESCRIBED. The following subjects are required as specified:—

Biblical History	4 hours.
English Composition	4 "
Mathematics	4 "
Language (unless a third language has been presented for admission) or	} 3 "
Natural Science (if not presented for admission)	
A Second Natural Science	3 "
Philosophy	3 "
Physiology and Hygiene	1 hour
	—
	22 hours.

Of the required subjects, Mathematics must be taken in the freshman year; Physiology and Hygiene in the freshman year; Biblical History two hours per week in the sophomore and the junior years; English two hours per week in the freshman and the sophomore years. Of the natural sciences, one must be taken before the junior year, but either a language or a science must be taken in the freshman year. Philosophy should ordinarily be taken before the senior year.

*The change in this requirement applies to the class of 1910 and succeeding classes.

II. ELECTIVE. All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. All of the fifty-eight hours not indicated in the above are elective, subject only to the restriction* that every candidate for the B.A. degree must show before graduation that she has completed either

(1) nine hours in each of two departments, related or unrelated, or

(2) twelve hours in one department and six hours in a second department, related or unrelated.

Of the courses offered to fulfill this requirement, at least one full course of Grade III must be taken in the senior year. The nine-hour groups must consist of at least six hours above Grade I, three hours of which must be of Grade III. The twelve-hour groups must consist of at least nine hours above Grade I, six hours of which must be of Grade III. The six-hour groups must include at least three hours above Grade I.

REQUIREMENTS FOR THE M.A. DEGREE

Candidates for the degree of Master of Arts must be graduates of Wellesley College, or of some other institution of satisfactory standing, and must give evidence of ability to carry on the work for the Master's degree.

The work required of a candidate for the Master's degree is equivalent to fifteen hours of college work, and includes no fewer than nine nor more than twelve hours of regular class work. A thesis, or a report or reports, based on independent work will be required. The student should choose one major subject, and not more than one minor subject, which should be related to the major; or she may, if she prefers, do all her work in one subject. A candidate for the Master's degree is required to show such a reading knowledge of French and of German as is satisfactory to the department in which the major subject is taken.

One year is the shortest time in which a candidate can com-

*The change in this requirement applies to the class of 1910 and succeeding classes.

plete the work required, but it must be understood that only students of ability and maturity will be able to finish it in so short a time.

The work for the degree of Master of Arts will be tested by either examination or thesis, or by both. Rules regarding examinations of resident students are fully stated in the graduate circular. Non-resident students will be examined in Wellesley during some one of the regular examination periods of the year in which the degree is to be conferred.

Thirty scholarships, as described on page 141, are open to accepted candidates for the Master's degree not residing in college buildings. Applications for these scholarships should be accompanied by records of standing, and, if possible, by papers or reports of work. Candidates residing in the college buildings will pay the full charge for board and tuition. A matriculation fee of five dollars is payable when a student is accepted as a candidate for the Master's degree; for a graduate student without a scholarship it will be deducted from the first tuition fee; for a graduate student with a scholarship it will be deducted from the diploma fee. The diploma fee of twenty-five dollars is payable when the degree is received.

A graduate student who has done the entire work for the Master's degree in non-residence is accepted as candidate for this degree only when this work has been done at some institution which does not grant the Master's degree to women, but she may under certain conditions do a portion of the work at any approved institution, even at one which grants the Master's degree to women. Preparation for the degree by private study is not permitted. The diploma fee is the same for resident and non-resident students.

Circulars containing fuller information concerning graduate work will be forwarded on application to the *Dean of the College*. It is desirable that applications for admission as graduate students be received by June 1st of the year in which the student wishes to enter.

EXPENSES

TUITION

The charge for tuition to all students, whether living in college buildings or not, is \$175 a year. Tuition is payable in advance and *is not subject to return or deduction.*

Students who are permitted to take *seven hours or less* of classroom work a week, and *who do not live in college buildings*, pay tuition by the course as follows: for a one-hour course, \$20; a two-hour course, \$40; a three-hour course, \$60. Payment is due at the beginning of the year. No charge is made for tuition in Biblical History.

TUITION AND OTHER CHARGES IN
DEPARTMENT OF MUSIC

‡For instruction for the college year in Pianoforte, Organ, Violin or Vocal Music, two lessons a week	\$100 00
One lesson a week	50 00
(Lessons thirty minutes in length.)	
For use of the Pianoforte, sixty minutes daily, for the college year	10 00
For two and three hours daily, in proportion.	
For use of the Pipe Organ in Music Hall, sixty min- utes daily, for the college year	15 00
For two or three hours daily, in proportion.	

Special arrangements may be made for lessons on instruments not mentioned above.

Tuition in music must always be paid in advance and is not subject to return or deduction.

BOARD

The charge for board to students lodging in halls of residence is \$275.

☞ It will be seen from the above statements that the total annual charge (for both board *and tuition*) is \$450.

‡ The change in these rates applies to all students taking practical music for the first time in 1909-1910 and thereafter.

FIXED TIMES AND AMOUNTS OF PAYMENTS

1. For students who are lodged in college buildings.

Students who are lodged in college buildings make payments as follows :—


September (at the opening of college)	\$250
February (at the beginning of the second semester)	200
	\$450
Total of these payments for the year	\$450


The charge for board begins at the opening of dormitories, *i. e.*, twenty-four hours before the close of registration (see page 5), and students are not permitted to occupy rooms in dormitories before that time.

2. For students who are not lodged in college buildings.

Students who are not lodged in college buildings make the tuition payment (\$175) at the time of the opening in September.

These students find rooms and board in the village of Wellesley. Payment is made to the head of the house at such rates and times as the parties to the contract may agree upon. Information regarding boarding places may be obtained by addressing the Registrar.

 *Payments must be made before the student can take her place in the class room. No exception will be made to this rule without a written permission from the Treasurer.*

 *Checks or money orders should be made payable to Wellesley College.*

FEES

An application fee of \$10 is required from all candidates for admission, and no application is recorded until the fee is received (see page 138). The same fee is required from all students in college who are intending to return for the following year, and from all former students who apply for re-admission. If the student enters college, the amount of the application fee is deducted from the first tuition bill after entrance. If

formal notice of withdrawal is received at the Dean's office before August 15th of the year for which the application is made, the fee will be refunded. In all other cases it is forfeited to the College. A student who postpones entrance until the year following the one for which she first applied may transfer her application fee. But a fee so transferred will not be refunded if the student later decides to withdraw, unless the request for the transfer was received within the specified time. Requests for second transfers are sometimes granted, but a fee transferred a second time will not be refunded under any circumstances.

A medical fee of five dollars is charged each student. This fee covers the general medical service of the resident physician throughout the year, including the privileges of the infirmary, when prescribed, for a period not to exceed fourteen days. This fee is due at the beginning of the year at the time of the first payment on account of board and tuition.

An additional charge is made for materials and the use of apparatus in the following laboratory courses: \$5 for each laboratory course in Botany, Chemistry, Physics, Zoology, or Astronomy; \$2.50 for the course in Mineralogy; \$5 each for courses 9 and 10 in Musical Theory, \$2.50 each for the half courses 11 and 12; \$2 each for the studio courses in Art, and \$1 each for all other Art courses. Every student should also reckon on the expenditure of \$10 to \$25 annually for the purchase of books. At the time of taking the degree a diploma fee is charged. This is \$5 for the B.A. degree, and \$25 for the M.A. degree.

RESIDENCE

College Hall, with three dining rooms, accommodates two hundred and twenty-five persons; Stone Hall, with four dining rooms, one hundred and five; Beebe, ninety-one; Pomeroy, seventy-seven; Cazenove, seventy-seven; Wilder, fifty; Freeman, forty-nine; Norumbega, forty-eight; Wood, forty-eight; Eliot, twenty-nine; Fiske, thirty-five. All the rooms are furnished, and supplied with electric lights.

☞ *A student vacating a room before the close of the year, or relinquishing a room reserved for her at the beginning of the year, will be charged for board until the vacancy has been filled by an incoming student. Therefore, notice of an intention to withdraw should be given at the earliest possible moment. No deduction is made for absences during the year.*

All applications for rooms in college buildings take the date at which the application fee is received. (See page 136).

Until May 1st, but not after that date, *applications from former students* will take precedence of those of new students in the matter of rooms. A limited number of students can arrange for board at the College during the Christmas and spring vacations.

☞ *No student can receive a diploma until a satisfactory settlement of all her college dues has been made.*

HEALTH

Two physicians are in residence, Katharine P. Raymond, B.A., M.D., and Emily J. Barker, M.D. These two physicians, together with the Director of Physical Training, the Director of Halls of Residence, and the President and the Dean of the College, *ex officio*, constitute a board of health to which all matters affecting the health of students are referred. An infirmary is maintained in Simpson Cottage under the charge of Dr. Raymond. Two trained nurses are in constant attendance.

FELLOWSHIPS AND SCHOLARSHIPS

A. FOR GRADUATES

THE ALICE FREEMAN PALMER FELLOWSHIP, yielding an income of about \$1,000, was founded in 1903, by Mrs. David P. Kimball.

The holder of this Fellowship must be a graduate of Wellesley College or some other American college of approved standing, a young woman of good health, not more than twenty-six years of age at the time of her appointment, unmarried throughout the

whole of her tenure, and as free as possible from other responsibilities. The same person will not be eligible to the Fellowship for more than two years.

The Fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. But several times during the period of tenure the holder of the fellowship must furnish evidence that it is used for purposes of serious study and not for general culture; and within three years from entrance on the fellowship she must present to the faculty a thesis embodying the results of the research carried on during the period of tenure.

Applications for this Fellowship should be received by the President of Wellesley College not later than February 1st, of the academic year preceding that for which the Fellowship is asked.

SCHOLARSHIPS IN SCHOOLS OF CLASSICAL STUDY.—Students in the American School of Classical Studies in Athens, and the American School of Classical Studies in Rome, are open to graduates and graduate students of Wellesley College who have done sufficient work in the classics to meet the admission requirements.

The object of these schools is to afford opportunity for the study of classical literature, art, and antiquities, to aid in original research in these subjects, and to conduct the exploration and excavation of classical sites.

The American School of Classical Studies in Athens.—The school year extends from October 1st to June 1st. The regulations for admission are as follows: "Bachelors of Arts of co-operating colleges, and all Bachelors of Arts who have studied at one of these colleges as candidates for a higher degree, shall be admitted to membership in the School on presenting to the Committee a certificate from the classical department of the college at which they have last studied, stating that they are competent to pursue an independent course of study at Athens under the advice of the Director. Members of the School are subject to no charge for tuition."* Further information can be had by application to Professor Chapin, who represents Wellesley College upon the Managing Committee of the School.

The American School of Classical Studies in Rome.—The school year extends from the fifteenth of October to the first of July.

* A few Fellowships are awarded on competitive examination.

Information in regard to the work of the School and the requirements for admission can be had on application to Professor Hawes, who represents Wellesley College upon the managing Committee of the School.*

SCHOLARSHIPS IN THE MARINE BIOLOGICAL LABORATORY AT WOOD'S HOLL.—Wellesley College is entitled to appoint annually two students who may enjoy all the advantages of this laboratory without expense for tuition. This laboratory, which is open during the summer for the study of marine life, affords opportunities both to investigators and to persons needing instruction or direction.

Students in either Botany or Zoology who desire to undertake original work will receive suitable direction. In addition to these opportunities there are courses of lectures on special topics and on subjects of general biological interest. Applications for appointment should state the character of the work to be done,—*i. e.*, whether botanical or zoological, whether general work, investigation under direction, or independent investigation,—and should be forwarded to Professor Ferguson or Professor Willcox in time to reach Wellesley College before April 1st.

SCHOLARSHIPS AT THE ZOOLOGICAL STATION IN NAPLES.—Wellesley College is a subscriber to the support of the American Women's Table at the Zoological Station in Naples, and thus has a voice in the selection of the persons who make use of it. Such persons must be capable of independent investigation in Botany, Zoology, or Physiology. Appointments are made for a longer or shorter period, as seems in each case expedient. Applications for the use of the table may be made through the President of the College.

THIRTY SCHOLARSHIPS TO THE VALUE OF \$175 A YEAR have been established for the benefit of approved candidates for the M.A. degree in residence at Wellesley. Applications for these scholarships should be addressed to the Dean of the College, Wellesley College, Wellesley, Mass.

* A few fellowships are awarded on competitive examination.

B. FOR UNDERGRADUATES

The income of these scholarships is applied to the aid of meritorious undergraduate students whose personal means are insufficient for their maintenance in college.

THE WOOD MEMORIAL SCHOLARSHIP of \$5,000, founded in 1878, by Caroline A. Wood, in memory of her husband.

THE GROVER SCHOLARSHIP of \$5,000, founded in 1878, by William O. Grover.

THE WESTON SCHOLARSHIP of \$5,000, founded in 1878, by David M. Weston.

THE NORTHFIELD SEMINARY SCHOLARSHIP, founded in 1878.

THE PAULINE A. DURANT SCHOLARSHIP of \$5,000, founded in 1880, by Mr. and Mrs. Durant.

THE SWEATMAN SCHOLARSHIP of \$5,000, founded in 1880, by V. C. Sweatman.

THE WALTER BAKER MEMORIAL SCHOLARSHIP, founded in 1880, by Eleanor J. W. Baker; raised to \$7,000 by will of Mrs. Baker in 1892.

THE ANNIE M. WOOD SCHOLARSHIP, founded in 1880, by Frank Wood.

TWO FROST SCHOLARSHIPS, founded in 1880, by Rufus S. Frost, as follows:—

One of \$1,000, the income to be given annually to some member of the graduating class designated by the Faculty.

One of \$5,000, the income to be devoted annually to the aid of students.

THE UNION CHURCH SCHOLARSHIP of \$5,000, founded in 1880, by Mr. and Mrs. A. W. Stetson.

THE FLORENCE N. BROWN MEMORIAL SCHOLARSHIP of \$5,000, founded in 1880, by Mr. and Mrs. Samuel N. Brown, Jr.

THE AUGUSTUS R. CLARK MEMORIAL SCHOLARSHIP of \$5,000, founded in 1880, by Mr. and Mrs. A. N. Clark.

FOUR HARRIET FOWLE SCHOLARSHIPS, founded in 1881, by Henry Fowle Durant in memory of his mother.

THE DURANT MEMORIAL SCHOLARSHIP of \$5,000, founded in 1883, by the officers and students of Wellesley College, in honor of Henry F. Durant, the income to be appropriated annually to some student selected by the Faculty.

THE JANE TOPLIFF MEMORIAL SCHOLARSHIP of \$6,000, founded in 1883, by Mrs. William S. Houghton, in memory of her mother.

THE INCOME OF A FUND of \$25,000, known as the "Stone Educational Fund," founded in 1884, by Valeria G. Stone.

THE JEANNIE L. WHITE SCHOLARSHIP of \$5,000, founded in 1886, by herself.

THE MR. AND MRS. SOLOMON F. SMITH MEMORIAL SCHOLARSHIP, founded in 1888, by George Smith, for the tuition of students from the town of Wellesley.

THE MARGARET McCLUNG COWAN FUND, of \$1,000, founded in 1888, by Rev. and Mrs. P. D. Cowan, in memory of their daughter.

THE EMMELAR SCHOLARSHIP of \$5,000, founded in 1889, by the class of '91, the income to be appropriated annually to some student selected by the Faculty.

THE SARAH J. HOUGHTON SCHOLARSHIP of \$6,000, founded in 1889, by William S. Houghton, in memory of his wife.

THE PROVISION OF E. A. GOODNOW, in 1885, through which the sum of \$250 is annually divided among five deserving students.

THE EDITH BAKER MEMORIAL SCHOLARSHIP of \$7,000, founded by bequest of Eleanor J. W. Baker in 1892.

- THE JOSEPH N. FISKE MEMORIAL SCHOLARSHIP of \$8,000, founded in 1892, by Mrs. J. N. Fiske.
- THE ABBIE A. COBURN MEMORIAL SCHOLARSHIP of \$2,000, founded in 1892.
- THE ELIZA C. JEWETT SCHOLARSHIP of \$6,000, founded in 1894; the income to be appropriated to the daughter of a clergyman, or of a home or foreign missionary, selected by the Faculty of the College.
- THE ADA L. HOWARD SCHOLARSHIP of \$6,000, founded in 1895.
- THE HELEN DAY GOULD SCHOLARSHIP, founded in 1896, by Helen Miller Gould, in memory of her mother; raised to \$10,000 by Miss Gould in 1901.
- THE GOODWIN SCHOLARSHIP of \$5,000, founded in 1897, by Hannah B. Goodwin.
- THE HYDE SCHOLARSHIP of \$2,000, founded in 1898, by Sarah B. Hyde.
- THE BILL SCHOLARSHIP of \$7,000, founded in 1898, by Charles Bill.
- THE HOLBROOK SCHOLARSHIP of \$3,000, founded in 1898, by Sarah J. Holbrook.
- THE (SECOND) HELEN DAY GOULD SCHOLARSHIP, founded in 1899, by Helen Miller Gould; raised to \$10,000 by Miss Gould in 1901.
- THE MARY ELIZABETH GERE SCHOLARSHIP of \$5,000, founded in 1899, by Mary Elizabeth Gere.
- THE ANN MORTON TOWLE MEMORIAL SCHOLARSHIP FUND of \$5,000, established in 1901, by bequest of George Francis Towle.
- THE DANA SCHOLARSHIP of \$5,000, founded in 1901, through the gift of Charles B. Dana.

- THE (THIRD) HELEN DAY GOULD SCHOLARSHIP of \$10,000, founded in 1901, by Helen Miller Gould.
- THE GEORGE WILLIAM TOWLE MEMORIAL SCHOLARSHIP FUND, founded in 1901, by bequest of George Francis Towle.
- THE ANNA PALEN SCHOLARSHIP of \$10,000, founded in 1902.
- THE ROLLINS SCHOLARSHIP of \$8,000, founded in 1903, by Augusta and Hannah H. Rollins, in memory of their parents.
- THE MEMORIAL SCHOLARSHIP of \$1,000, founded in 1904, by the class of 1889, in memory of classmates who have died.
- THE ELIZABETH S. FISKE SCHOLARSHIP of \$5,000, founded in 1904, by bequest of Miss Fiske.
- THE MAE MCELWAIN RICE MEMORIAL SCHOLARSHIP of \$1,000, founded in 1905, by the class of 1902.
- THE SANBORN ALUMNÆ SCHOLARSHIP, yielding \$450 annually, founded in 1905, by Helen J. Sanborn of the class of 1884, for the benefit of daughters of Alumnæ.
- THE JULIA BALL THAYER SCHOLARSHIP, founded in 1907, by bequest of Mrs. Julia B. Thayer, of Keene, N. H.
- THE ADAMS SCHOLARSHIP of \$2,000, founded in 1907, by bequest of Adoniram J. Adams, of Boston.
- THE RANSOM SCHOLARSHIP of \$1,000, founded in 1908, by bequest of Catherine Ayer Ransom.

Another source of pecuniary aid is in the work of the Students' Aid Society. Small amounts are loaned to students without interest, in the expectation that whenever they are able, these students will repay the Society. Assistance is often given partly in gifts and partly in loans. The funds at the disposal of the Society are wholly insufficient to meet the wants of deserving applicants. Contributions of any amount will be gladly received, and should be sent to the Treasurer of the Society, Mrs. Pauline A. Durant, Wellesley, Mass.

All applications for assistance should be made by letter addressed to the Secretary of the Students' Aid Society, Wellesley, Mass., before the first of May preceding the college year for which the aid is needed. It should be noted that owing to inadequacy of funds, aid cannot be promised in advance to students who have not entered.

The Wellesley College Loan Fund, established in 1908 through the gift of alumnae and other friends of the College, is a valuable aid in this work for students.

In two cottages a reduction is allowed on payment for board, under certain conditions.

LIBRARY

THE LIBRARY of the College, endowed by Eben Norton Horsford, now numbers 63,675 volumes, including the departmental and special libraries enumerated below. The General Library is open on week days from 8 A. M. to 9.30 P. M., and on Sundays from 9 to 11 A. M. and from 2 to 6 P. M. Students have direct access to the shelves. The library is catalogued by author and subject entries, and the most recent and useful bibliographical aids are provided; special effort is made by the librarians to train students in methods of research.

The Library subscribes for six daily and three weekly papers and for one hundred and seventy-five American and foreign periodicals. The list includes the most important representatives of the branches of instruction comprised in the college curriculum.

THE GERTRUDE MEMORIAL LIBRARY, established by Mr. A. A. Sweet, the MISSIONARY LIBRARY, and other collections in the General Library, furnish 4,882 volumes for Biblical study and religious reading.

THE LIBRARY OF AMERICAN LINGUISTICS, a special gift from Mr. Horsford, numbering 1,420 works, comprises the valuable collections of Major J. W. Powell and Mr. Horsford relating to North American Indian languages.

THE PLIMPTON LIBRARY, established by Mr. George A. Plimpton in memory of his wife, Frances Pearsons Plimpton, of the class of 1884, comprises 811 volumes of early Italian literature, including both manuscripts and printed books of the fifteenth century.

THE MUSIC LIBRARY, in Billings Hall, includes a collection of manuscripts and musical scores, besides books on music.

The following collections are placed in the laboratories of the respective departments :—

Art Library, 1,988 volumes.

Library of Botany, 2,241 volumes.

Library of Physics and Astronomy, 2,732 volumes.

Library of Zoology and Physiology, 2,189 volumes.

Library of Chemistry, 1,359 volumes.

GYMNASIUM

The Gymnasium is equipped with apparatus for Swedish gymnastics. The outdoor equipment includes the lake for rowing and skating ; a bath-house and boat-house ; the east and west playgrounds ; clay tennis courts ; a golf course with club-house.

THE FARNSWORTH ART BUILDING AND ART COLLECTIONS

The Farnsworth Art Building, the gift of the late Isaac D. Farnsworth, was opened in September, 1889. Besides lecture rooms, galleries for collections, and studios for those engaged in drawing and painting, a special feature is the arrangement of laboratories and libraries, so that the books and art material relating to particular subjects and periods can be made immediately available to general students.

The Art Collection consists of a large number of photographs and other material, including among others original pieces of antique sculpture from the Day Kimball Fund ; the James Jackson Jarves collection of laces and vestments ; a

collection of Indian baskets, the gift of Mrs. Rufus S. Frost, and the Stetson collection of modern paintings. Two examples of early Italian painting have recently been acquired.

The collection of photographs and other reproductions numbers over nine thousand five hundred.

EQUIPMENT IN MUSIC

Music Hall and Billings Hall are large brick buildings devoted entirely to the department of Music. Music Hall has an adequate equipment of instruments for students' use, a room for choral practice, and practice rooms of good size. Organ instruction is given not only on the older type of organ, but also on two large, three-manual electric organs embodying the latest principles of organ construction. Constant reference will be made to the use of the organ in church.

Billings Hall, built in 1904, contains the offices of the department of Music, the library and class rooms for instruction in Musical Theory; also a concert room seating four hundred and twenty-five people, and containing the Grover organ, a large, three-manual organ, rebuilt and modernized.

LABORATORIES AND SCIENTIFIC COLLECTIONS

ASTRONOMY

The Whittin Observatory is supplied with a twelve-inch refracting telescope with micrometer, spectroscope, and photometer attachments; a six-inch telescope, also with driving clock and micrometer; two transits, the larger a three-inch prismatic transit; two chronographs, two sidereal clocks and a Bond chronometer; a concave grating spectroscope, and a collection of minor instruments and photographs.

Meteorological instruments, including thermometer shelter, thermograph, barograph, anemometer, and anemoscope, are installed at the observatory.

BOTANY

The department of Botany has the use of six new laboratories well supplied with microscopes and with running water, gas, electric stereopticon, and other modern apparatus and appliances. Apparatus for advanced work includes an autoclave, a paraffin oven, and revolving, sliding, and freezing microtomes.

The illustrative collections comprise an herbarium of nearly eight thousand phanerogams and seven thousand cryptogams recently increased by the lichen collection of the late Prof. Clara E. Cummings; also a collection of woods, fruits, and economic vegetable products; two hundred charts by Henslow, Kny, Dodel, Tschirch, and others; a collection of Auzoux's botanical models; Brendel's glass models of cryptogams; lantern slides and microscope mounts. A gift of seventeen hundred water color paintings of North American plants by the late Helen Frances Ayres has lately been received. In addition collections for a permanent museum now number more than five thousand specimens.

Classes have the use of a garden and plots of wild ground as well. Specimens are also supplied from a private greenhouse. The native flora about Wellesley is rich and easily accessible, furnishing a convenient field for both the taxonomist and ecologist. A small glass house is an aid to work in landscape gardening and in plant physiology. The library is well supplied with reference works and with current periodicals.

CHEMISTRY

The department of Chemistry occupies a separate building, which contains two lecture rooms and the chemical library, in addition to the rooms fitted up for laboratory work. Separate rooms are provided for work in General and Organic Chemistry, Qualitative and Quantitative Analysis, Air and Water Analysis and Food Analysis. The building is conveniently arranged and well equipped with necessary apparatus and appliances.

GEOLOGY AND MINERALOGY

The geological collection of specimens is arranged to illustrate the subjects of historical and structural geology, lithology, and mineralogy. There are three collections well equipped for class room use,—one each in mineralogy, lithology, and palæontology. They consist of well selected specimens systematically arranged in sets of trays.

The specimens are carefully numbered, but without labels. During a class appointment in these subjects, each student has a tray which presents objectively the subject of the lesson.

Another collection is used for reference in mineralogy. It contains well characterized specimens of the more common species. The specimens are labeled and arranged in drawers, and the collection is always accessible to students taking mineralogy.

The laboratory containing these collections is supplied with tables equipped with appliances for blow-pipe analysis and other laboratory work.

MATHEMATICS

The collection of mathematical models consists of a set of models of simple solids, surfaces of the second and higher orders, and circular sections of surfaces of the second order. They are executed in wood, thread, card, and plaster.

PHYSICS

The department of Physics occupies a convenient lecture room, provided with arrangements for sunlight and lantern projection and adequate apparatus for illustrative experiments.

Laboratories for students are equipped with instruments adapted to a wide range of work. Rooms are especially fitted for photometry, photography, spectroscopic work, and electrical measurements. A workshop is provided with lathe and tools. Storage batteries and dynamos are connected with the laboratories.

PSYCHOLOGY

The work of the laboratory is carried on in seven rooms (including a dark-room) with electrical connections. The equipment includes electric-motor color mixers, a campimeter, a Wheatstone stereoscope, the Hering simultaneous contrast apparatus, sonometers, König tuning-forks, Quincke's tubes, Galton's piston whistle, Zwaardemaker's clinical and fluid-mantle olfactometers, with a large collection of smell material, æsthesiometers, a pressure balance, the apparatus of Münsterberg and of Titchener for the localization of sound, Jastrow's memory apparatus, a Hipp chronoscope with the Ebbinghaus control apparatus, vernier chronoscopes, a pneumograph, a plethysmograph, sphygmographs of different forms, a finger-dynamometer, an automatograph, tambours, kymographs, electric motors, an electric tuning-fork, Lough's electrically actuated pendulum, Mälzel's mercury contact metronome, etc., besides apparatus for special investigations. Students have the use of models of the brain, eye, and ear.

ZOOLOGY

There are four laboratories for the study of Zoology and Animal Physiology. Each is adequately equipped for its special purpose. A complete set of physiological apparatus from the Harvard Apparatus Company is provided for each student in the physiology course.

The Zoology Museum contains a typical collection of both vertebrates and invertebrates, and a considerable number of models by Ziegler, Blaschka, Auzoux, and Deyrolle. There are also excellent collections of birds and of insects, and a small one of fishes prepared by Denton.

NEEDS OF THE COLLEGE

Wellesley College, established by private benevolence, entered upon its work with a costly material equipment, but with no endowment in money.

The endowment of the library by Mr. E. N. Horsford, the later contributions of Mr. Rockefeller and others to general and special endowment, have greatly relieved the burden resting upon the College. Yet to-day the receipts from board and tuition fees form the main resource with which to meet running expenses and annual repairs, and to make those additions to apparatus and buildings which are demanded by the constant advance and expansion of college instruction throughout the country.

It must be evident that the past outlay has been amply justified by results. Notwithstanding the peculiar dependence of the College upon the number of students admitted and retained, its whole existence has been attended by a constant rise in the academic standard. From Wellesley have been graduated nearly thirty-five hundred young women, who have carried the fruits of their college training into the schools and households of their country, and into benevolent work at home and abroad. It is believed that the College can with full confidence appeal to the public at large for further aid.

Among the urgent needs of the College are the following :—

1. Unrestricted funds for defraying general expenses.
2. The endowment of the presidency and professorships.
3. A science building.
4. Halls of residence.
5. An endowment for infirmary.

FORMS OF BEQUEST

I give and bequeath to Wellesley College, a corporation established by law, in the town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of———— dollars, to be safely invested by it, and called the————Endowment Fund. The interest shall be applied to the payment of the salaries of teachers in Wellesley College, as the Trustees shall deem expedient.

I give and bequeath to Wellesley College, a corporation established by law, in the town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of———— dollars, to be appropriated by the Trustees for the benefit of the College in such manner as they shall think will be most useful.

I give and bequeath to Wellesley College, a corporation established by law, in the town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of———— dollars, to be safely invested by it, and called the————Scholarship Fund. The interest of this fund shall be applied to aid deserving students in Wellesley College.

DEGREES CONFERRED IN 1908

MASTER OF ARTS

- MARION CONWAY (B.A., Wellesley College, 1905), *History and Economics*.
Thesis: Government Aid to Transportation Facilities in the United States as a Phase of National Development.
- MARY BLANCHE DOWNEY (B.A., Wellesley College, 1903), *Mathematics*.
Thesis: On a Locus connected with Tangent Cones to a Quadric Surface.
- DOROTHY FIRMAN (B.A., Mount Holyoke College, 1906), *English Literature*.
Thesis: A Critical Edition of the Comparative Discourse and Other Sections of Meres' Palladis Tamia.
- JESSIE SARGENT GOODWIN (B.A., Wellesley College, 1903), *Mathematics*.
Thesis: The Envelope of the Polar Planes of a Given Conic with Respect to a Given Quadric.
- LAURA ALANDIS HIBBARD (B.A., Wellesley College, 1905), *English Language and Literature*.
Thesis: A Critical Edition of The Fayre Maide of the Exchange.
- AMY KELLY (B.A., Oberlin College, 1900), *English Language and Literature*.
Thesis: A Study in Chaucer's Parlement of Foules with Special Reference to his Use of Literary Conventions.
- HARRIET RUSSEL PIERCE (B.S., Wellesley College, 1888), *Mathematics*.

BACHELOR OF ARTS

- | | |
|-------------------------|-----------------------------|
| EDITH ADAMS. | MABEL JOSEPHINE CAMPBELL |
| ISABEL ALDEN. | BOWDEN. |
| GRACE BROMLEY ALLEN. | HARRIET LAMKIN BOYCE. |
| ORRA AMBLER. | ALICE CRARY BROWN. |
| HELEN AMES. | GLADYS AZUBAH BROWN. |
| ELIZABETH ANDREWS. | JESSIE MAY BUFFUM. |
| SUSAN BROOMHALL ASHLEY. | GERTRUDE CARMAN BUSSEY. |
| EDNA HAMMON BAILY. | ALICE HILL BYRNE. |
| BETSEY COE BAIRD. | ELVA ARETTA CALDWELL. |
| JANE CANBY BALDERSTON. | JESSIE MAY CAMERON. |
| EDITH LOUISE BARBER. | RUTH CARPENTER. |
| BERTHA BARD. | BERTHA NANCY CARR |
| MARION BARNES. | VERA ELIEDA LAVELLE CARSON. |
| SUE BARROW. | ISABEL HOPESTILL CARTER. |
| RUTH HARRIET BARRY. | LUCIA MAY CARTER. |
| EDEE MARIE BARTLETT. | FLORENCE LOUISE CASE. |
| EDITH WENDT BECKER. | HELEN LOUISE CHANDLER. |
| ANNE GERTRUDE BENTON. | MABEL STOOHOFF COLE. |
| ALMA LOUISE BIKLEN. | HELEN COOPER. |
| LAURA DELIUS BLAKE. | MABEL COOPER. |
| HENRIETTA MARIE BLASL. | ELLEN COPE. |

EVELYN CORTHELL.
 DAPHNE CRANE.
 HELEN MARIETTE CUMMINGS.
 HELEN CURTIS.
 LEAH TOWER CURTIS.
 PERMELIA CURTIS.
 LAURA MOULTON CUTTING.
 MARY WOOD DALEY.
 AGNES SANBORN DANA.
 LEILA ESTELLA DAVID.
 ADA ELLEN DAVIS.
 FRANCES EUNICE DAVIS.
 KATHERINE DENISON.
 HELEN MAHER DOWNEY.
 ADA WINIFRED DRAPER.
 LILLIAN DROUET.
 LUCILLE BEVERLY DRUMMOND.
 MARGUERITE ALISON DRUMMOND.
 EMMA MATILDA DULING.
 CORINNE RENA DULUDE.
 MARIAN DURELL.
 PAULINE ELIZBETH DURFEE.
 MARION GERTRUDE EARLE.
 ANNIE ELSMORE.
 MARGARET ERWIN.
 HELEN FRANCES EUSTIS.
 RACHEL REBECCA EVANS.
 MARGARET FARR.
 ALICE WHITNEY FARRAR.
 HELEN MARGARET FARWELL.
 FANNY FERBSTEIN.
 MIRIAM NESMITH FLANDERS.
 EURETTA FRANCES FLETCHER.
 MAYE HORTENSE FOOTE.
 ALICE SAYRE FORDHAM.
 LILLIAN ELIZABETH FREDERICK.
 DOROTHY RATHBONE FULLER.
 ERNESTINE WELLS FULLER.
 ALMIRA GIFFORD.
 AMY PHILLIPS GILBERT.
 GERTRUDE GLADDING.
 MARY SYDNEY GOLD.
 LORA GOODING.
 ELISABETH GORDON.
 ETHEL VALE GRANT.
 MARIE ADELE GRAY.
 ELSIE ROSAMOND GREENWOOD.
 ABBY WILLARD GREGORY.
 EVALYN ALICE GREGORY.
 ALICE LOUISE GRIFFIN.
 ETHEL MAUDE GROUT.
 MARTHA EMMA GRUNEWALD.

CHRISTINA GURLITZ.
 JANE SPRUNT HALL.
 MARGUERITE CLARK HALLAM.
 GEORDIE HORTENSE HAMLIN.
 DOROTHY HANCOCK.
 MARY JOSEPHINE HARDY.
 HELEN THURBER HARTWELL.
 EMILY NEWTON HATHAWAY.
 DOROTHY HAZARD.
 KATHARINE SCHENCK HAZELTINE.
 MARY JANE HAZLETT.
 MARGARET HEATLEY.
 ALICE ESTELLA HECKER.
 ELIZA GEORGIA HENRY.
 JOSIE BELL HERBERT.
 BELLE BROWN HICKS.
 ELOISE HOLLETT.
 ALICE CHASE HOPKINS.
 IMOGENE HAPPY HOSKA.
 ETHEL CHRISTINE HOWE.
 LILLA VICTORIA HOWES.
 SUSAN DALE HOWLAND.
 CHARLOTTE HUBBARD.
 EDNA MILDRED HUBLEY.
 MAUDE EYNAUD HUFF.
 FLORENCE ISABELLE HUNTER.
 BERTHA MAY HUTCHINSON.
 ETHEL MAY JAMESON.
 LOUISE ISABEL JENISON.
 MINNIE ELISE JOHNSTON.
 HANNAH MARY JONES.
 JESSIE MILLER JONES.
 MARGARET FULLER JONES.
 NELLIE LUCRETIA JONES.
 HELEN SHELDEN JUDSON.
 MARGARET CHURCHILL KASSON.
 MARY HELEN KENNARD.
 MARGARET KENT.
 BESSIE RÜTHER KINGMAN.
 EVELYN MASON KNOWLTON.
 HATTIE FRANCES LA PIERRE.
 LIZBETH RACHEL LAUGHTON.
 ELEANOR HOWELL LITTLE.
 ESTELLE ELIZA LITTLEFIELD.
 DOROTHEA SHELDON LOCKWOOD.
 HELEN BEURY LORENZ.
 ROMA LOUISE LOVE.
 NATHALIE LYDECKER.
 MARY EMMA MCCARROLL.
 MARTHA EDNA MCCHESENEY.
 HELEN MARION MCFARLAND.
 VIRGINIA MCGARRY.

RUTH MCGLASHAN.
 ALICE BERDENA MCINTOSH,
 HENRIETTA MARGUERITE MCINTOSH.
 MILDRED LUCY MCINTOSH.
 LORNA WOODFORD MACLEAN.
 ADELADE AUGUSTA MANDEVILLE.
 GERTRUDE LOUISE MANN.
 ELIZABETH MANSELL MARGERUM.
 BEATRICE MADELEINE MARKLEY.
 GERTRUDE LEAVENWORTH MARVIN.
 IDA LUCILE MASON.
 JULIA WELLS MAXSON.
 GERTRUDE ALCLIFFE MEVIS.
 MARGARET MILLS.
 EMILY COMFORT MOORE.
 LOUISE MOORE.
 EDITH HARRISON MORRILL.
 STELLA WIGGIN MORRISON.
 MARY GRACE MOSELEY.
 OLIVE HAZEL MOULTON.
 INEZ REBECCA NEWBOLD.
 ELIZABETH MARGARET NILES.
 FRANCENA LOUISE NOYES.
 MAVÉ COWDERY OLDS.
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 RUTH STEPHENSON.
 HELEN GITANA STRIEBY.
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 MAY ELLA TAFT.
 LUCY RICHARDSON TATUM.
 HELEN THOMPSON.
 ELLA MARY TILFORD.
 AGNES RUTH TYLER.
 ETHEL MAE USHER.
 ANNE ELIZABETH VALENTINE.
 MARY GRACE WAGNER.
 EVELYN METCALF WALMSLEY.
 EDITH ALVORD WARD.
 CAROLINE AMANDA WARE.
 RUTH EVELYN WARREN.
 MARIAN WAUGH.
 ANNALEE WEISKOPF.
 RUTH WELLER.
 BEATA CHRISTINE WERDENHOFF.
 EVA MCKINLEY WEST.
 GERTRUDE BLESSING WHITE.
 MARY KATHERINE WHITE.
 MARY BROWNSCOMBE WHITING.
 EDITH LILLIAN WHITNEY.
 MARGUERITE LOUISE WILLIAMS.
 JESSIE PATIENCE WILSON.
 EDITH WISE.
 ELIZABETH FORD WOODSON.
 HARRIET ELIZABETH WORTHINGTON.
 LILLIAN FLORENCE WYE.
 ESTHER ISABELLE YEOMAN.
 ELSIE STEVENS YOUNG.

HONOR SCHOLARSHIPS

Honor Scholarships (without stipend) have been established by the College for the purpose of giving recognition to a high degree of excellence in academic work. These honors fall into two classes: students in the first, or higher class, are termed Durant Scholars; students in the second class are termed Wellesley College Scholars.

These honors are awarded to seniors on the basis of two and one-half years' work, to juniors on the basis of one and one-half years' work. The standard in each case is absolute, not competitive.

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APPOINTED IN 1908

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MARION GOODWIN ALEXANDER, '09.	LOUISE ISABEL JENISON, '08.
MABEL JOSEPHINE CAMPBELL BOWDEN, '08.	HELEN SHELDEN JUDSON, '08.
ELSIE FARSON BRADT, '09.	JEANNETTE KEIM, '09.
GERTRUDE CARMAN BUSSEY, '08.	MARY EMMA MCCARROLL, '08.
ALICE HILL BYRNE, '08.	MARIAN EMSLEY MARKLEY, '09.
MARTHA BENNETT CECIL, '09.	DOROTHEA MARCH MARSTON, '09.
MABEL STOOHOFF COLE, '08.	EMILY COMFORT MOORE, '08.
LEILA ESTELLA DAVID, '08.	LOUISE MOORE, '08.
FRANCES EUNICE DAVIS, '08.	SOPHIA MOSES, '09.
EMMA MATILDA DULING, '08.	RUTH SACKETT MUIR, '09.
LORRAINE MARSHALL EATON, '09.	MARGARET WILCOX ROBINSON, '09.
EURETTA FRANCES FLETCHER, '08.	MARION DUTTON SAVAGE, '09.
WINIFRED GOLDRING, '09.	ANNE ELIZABETH VALENTINE, '08.
RUTH CROSBY HANFORD, '09.	EVA MCKINLEY WEST, '08.
DOROTHY HAZARD, '08.	DOROTHY WILLIAMS, '09.
KATHARINE SCHENCK HAZELTINE, '08.	RUBY WILLIS, '09.
	ELSIE LEMYRA WRIGHT, '09.

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APPOINTED IN 1908

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HENRIETTA MARIE BLASL, '08.	INEZ REBECCA NEWBOLD, '08.
HATTIE PAYSON BRAZIER, '09.	MARGARET LEWERS PETERSON, '08.
GLADYS AZUBAH BROWN, '08.	MARGARET PRATT, '08.
SIDNEY AGNES CLAPP, '09.	GERNA SAVILLE, '08.
FLORENCE MILDRED CRAFT, '09.	FRIDA SEMLER, '08.
MARY WOOD DALEY, '08.	FLORENCE MARIE SMITH, '08.
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ANNIE ELSMORE, '08.	MARY LOIS STONE, '09.
ALICE WHITNEY FARRAR, '08.	FRANCES LOUISE TAFT, '09.
ALICE ESTELLA HECKER, '08.	MABEL ADELIA TAYLOR, '09.
ELOISE HOLLETT, '08.	FRANCES WASHINGTON TUFTS, '09.
ELEANOR NIGHTINGALE LITTLE, '09.	AGNES RUTH TYLER, '08.
ESTELLE ELIZA LITTLEFIELD, '08.	ANNALEE WEISKOPF, '08.
MARY LOUISE MCCAUSEY, '09.	

SUMMARY OF STUDENTS

Resident candidates for the M.A. degree		22
Candidates for the B.A. degree :—		
Seniors		258
Juniors		281
Sophomores		313
Freshmen		405
		1257
Non-candidates for degrees		3
Total registration, November, 1908		1282

United States :—			
Alabama	1	Nevada	2
Alaska	1	New Hampshire	35
Arkansas	2	New Jersey	92
California	11	New York	168
Colorado	13	North Carolina	4
Connecticut	47	North Dakota	1
Delaware	1	Ohio	45
District of Columbia	9	Oklahoma	1
Florida	1	Oregon	2
Georgia	5	Pennsylvania	128
Hawaii	2	Rhode Island	22
Idaho	1	South Dakota	5
Illinois	55	Tennessee	4
Indiana	11	Texas	4
Iowa	23	Utah	2
Kansas	10	Virginia	2
Kentucky	23	Vermont	13
Maine	40	Washington	7
Maryland	2	West Virginia	1
Massachusetts	386	Wisconsin	13
Michigan	23	Wyoming	1
Minnesota	21	Canada	2
Mississippi	1	China	2
Missouri	15	Japan	1
Montana	3	Nova Scotia	1
Nebraska	15	Persia	1
		Porto Rico	1

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MISS ANNA PALEN, *Treasurer*, 127 Harvey St., Germantown, Pa.

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Miss Alice A. Burlingame, *Secretary*, 17 Somerset St., Worcester, Mass.

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