

WELLESLEY COLLEGE
BULLETIN

CALENDAR NUMBER
1934-1935

WELLESLEY, MASSACHUSETTS
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Volume 24

Number 2

DIRECTIONS FOR CORRESPONDENCE

In the list below are the names and addresses of persons to whom inquiries of various types should be sent. The post office address is Wellesley, Massachusetts.

GENERAL POLICY OF THE COLLEGE

The President of Wellesley College

ADMISSION OF UNDERGRADUATES

The Secretary of the Board of Admission

APPLICATIONS FOR READMISSION

The College Recorder

ADMISSION OF GRADUATES

The Dean of Graduate Students

INQUIRIES CONCERNING DORMITORY ROOMS AND NOTICE OF WITHDRAWAL

The Dean of Residence

PAYMENT OF COLLEGE BILLS

The Assistant Treasurer (Checks should be made payable to Wellesley College)

SCHOLARSHIPS AND COOPERATIVE HOUSES

Candidates for Admission—The Dean of Freshmen

Students in College—The Executive Secretary who is Chairman of the Faculty Committee on Scholarships

QUESTIONS RELATING TO ACADEMIC WORK OF STUDENTS

The Dean of the College

QUESTIONS RELATING TO SOCIAL REGULATIONS

The Dean of Residence

REQUESTS FOR TRANSCRIPTS OF RECORDS

The College Recorder

INFORMATION AND RECOMMENDATIONS FOR EDUCATIONAL AND OTHER POSITIONS

The Director of the Personnel Bureau

MISCELLANEOUS INFORMATION

The Executive Secretary

REQUESTS FOR CATALOGUES

The Information Bureau

ALUMNAE AFFAIRS

The Executive Secretary of the Alumnae Association

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CALENDAR

ACADEMIC YEAR 1934-1935

Freshman week	September 18-22
Academic year begins	Monday, September 24
Thanksgiving Day, holiday	November 29
Christmas recess	Thursday, December 20
	Wednesday, January 9
Examinations	January 28 to February 7
Second semester begins	Monday, February 11
Spring recess	Thursday, March 21
	Monday, April 1
Memorial Day, holiday	May 30
General examination for seniors	May 31
Examinations	June 3 to 12
Commencement	Monday, June 17

ACADEMIC YEAR 1935-1936

Examinations	September 16-20
Freshman week	September 17-21
Halls of residence open for new students, 9 A.M.	Tuesday, September 17
Registration closes for new students, 10.30 P.M.	Tuesday, September 17
Halls of residence open for all other students, 2.00 P.M.	Thursday, September 19
Registration closes for all other students, 10.30 P.M.	Friday, September 20
Academic year begins	Monday, September 23
Thanksgiving Day, holiday	November 28
Christmas recess	Thursday, December 19
	Wednesday, January 8
Examinations	January 27 to February 6
Second semester begins	Monday, February 10
Spring recess	Thursday, March 26
	Monday, April 6
General examination for seniors	May 29
Memorial Day, holiday	May 30
Examinations	June 1 to 10
Commencement	Monday, June 15

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MARGARET WINSLOW HALL, PH.D.,	<i>Instructor in History</i>
RUTH GLIDDEN MASON ⁵ , PH.D.,	<i>Instructor in Mathematics</i>
MARGARET ELIZABETH TAYLOR, PH.D.,	<i>Instructor in Greek</i>

⁵ Appointed for the second semester only.

ELIZABETH RUNKLE, M.A.,	<i>Instructor in Political Science</i>
EVA ELIZABETH JONES, PH.D.,	<i>Instructor in Zoölogy</i>
ALTHA LOUISE PALMER, M.S.,	<i>Instructor in Zoölogy</i>
ADELE BARRE ROBINSON, B.DES.,	<i>Assistant in Art</i>
THELMA GORFINKLE ALPER, M.A.,	<i>Assistant in Psychology</i>
ELIZABETH RICHARDS ROY, M.A.,	<i>Assistant in Geology</i>
FRANCES DUNBAR NICHOLS, M.A.,	<i>Assistant in Education</i>
MARIE MARCIA MAYFIELD, B.DES.,	<i>Assistant in Art</i>
AUDRA JULIA ALBRECHT, B.A.,	<i>Assistant in Chemistry</i>
MARGUERITE NAPS, B.A.,	<i>Assistant in Chemistry</i>
DOROTHY JANE PERKINS, B.A.,	<i>Assistant in Chemistry</i>
BARBARA GOLDSMITH TRASK, B.A.,	<i>Assistant in Music</i>
ALICE ELEANOR TAYLOR, B.A.,	<i>Assistant in Astronomy</i>
KATHRYN SUE POTTER, B.A.,	<i>Assistant in Chemistry</i>
LOUISE WARD GATES, M.A.,	<i>Assistant in Psychology</i>
ELIZA NEWKIRK ROGERS ⁵ , M.A.,	<i>Lecturer in the History of Architecture</i>
HARRIET BOYD HAWES, M.A., L.H.D.,	<i>Lecturer in Pre-Christian Art</i>
MATILDA REMY, B.S. IN ED.,	<i>Lecturer on the History and Practice of the Kindergarten</i>
ABIGAIL ADAMS ELIOT, B.A., ED.D.,	<i>Lecturer on Nursery School Education</i>
RUSSELL GIBSON, PH.D.,	<i>Lecturer in Geology</i>
SIMONE DAVID, AGRÉGÉE DE L'UNIVERSITÉ,	<i>Lecturer in French</i>

⁵ Appointed for the second semester only.

JOSEPH GARABED HAROUTUNIAN, B.D., PH.D.,	<i>Lecturer in Biblical History</i>
JOHN ROBERT PUTNAM FRENCH, M.A.,	<i>Lecturer in Education</i>
EUGENE RANDOLPH SMITH, M.A., PED.D.,	<i>Lecturer in Education</i>
CHARLES SWAIN THOMAS, LITT.D.,	<i>Lecturer in Education</i>
T. H. VAIL MOTTER, PH.D.,	<i>Lecturer in English Literature</i>
PAUL HENRY LÁNG, PH.D.,	<i>Visiting Lecturer in Music on the Mary Whiton Calkins Memorial Foundation</i>
EMMA MARSHALL DENKINGER, PH.D.,	<i>Lecturer in Rhetoric and Composition</i>
MELITTA GERHARD, PH.D.,	<i>Lecturer in German</i>
NICOLETTE INA PERNOT, LIC. ÈS LET.,	<i>Lecturer in French</i>
GROVER CLARK, M.A.,	<i>Visiting Lecturer in History</i>

SPECIAL LECTURERS IN THE DEPARTMENT OF HYGIENE
AND PHYSICAL EDUCATION

W. RUSSELL MACAUSLAND, M.D.,	<i>Lecturer on Orthopedics</i>
ANDREW R. MACAUSLAND, M.D.,	<i>Lecturer on Orthopedics</i>
LORETTA S. CUMMINS, M.D.,	<i>Lecturer on Hygiene of the Skin</i>
HILBERT F. DAY, PH.B., M.D., F.A.C.S.,	<i>Lecturer on Preventive Surgery</i>
MARY F. DEKRUIF, M.D.,	<i>Lecturer on Health Problems</i>
LEIGHTON JOHNSON, M.D.,	<i>Lecturer on Hygiene of the Nose and Throat</i>
SAMUEL R. MEAKER, M.D.,	<i>Lecturer on Hygiene of Menstruation and Other Gynecological Problems</i>
ABRAHAM MYERSON, M.D.,	<i>Lecturer on Mental Hygiene</i>
WILLIAM E. PREBLE, B.A., M.D.,	<i>Lecturer on Internal Medicine</i>

ADMINISTRATIVE OFFICERS

- ELLEN FITZ PENDLETON, M.A., LITT.D., LL.D.,
President
- MARY LOWELL COOLIDGE, PH.D.,
Dean of the College, and Associate Professor of Philosophy
- FRANCES LOUISE KNAPP, M.A.,
Dean of Freshmen, and Chairman of the Board of Admission
- ALICE IDA PERRY WOOD, PH.D.,
*Director of Personnel Bureau, and
Associate Professor of English Literature*
- GRACE GOODNOW CROCKER, B.A.,
*Executive Secretary of the College, and
Secretary of the Board of Trustees*
- MARY CROSS EWING, B.A.,
Dean of Residence
- MARGARET DAVIS CHRISTIAN, B.A.,
Assistant Dean of Residence
- HELEN SARD HUGHES, PH.D.,
Dean of Graduate Students, and Professor of English Literature
- RUTH HUTCHINSON LINDSAY, PH.D.,
Dean of the Class of 1935, and Assistant Professor of Botany
- ELLA KEATS WHITING, PH.D.,
*Dean of the Class of 1936, and
Assistant Professor of English Literature*
- KATHLEEN ELLIOTT, B.A.,
College Recorder
- FLORENCE RISLEY, M.A.,
Executive Secretary of the Alumnae Association

LIBRARIANS

- ETHEL DANE ROBERTS, B.A., B.L.S.,
*Librarian, and Curator of the
Frances Pearsons Plimpton Library of Italian Literature*
- ANTOINETTE BRIGHAM PUTNAM METCALF, M.A.,
Associate and Reference Librarian
- LILLA WEED³, M.A.,
Associate Librarian, and Curator of the English Poetry Collection
- HELEN MOORE LAWS, B.A., B.L.S.,
Cataloguer

³ Absent on leave for the second semester.

FLORA EUGENIA WISE,	<i>Classifier</i>
MARY LOUISE COURTNEY, B.A.,	<i>Secretary to the Librarian, and Order Assistant</i>
ETHEL ADELE PENNELL, B.A.,	<i>Periodical and Binding Assistant</i>
EUNICE LATHROPE, B.A.,	<i>Assistant Cataloguer</i>
AGNES EMMA DODGE,	<i>Librarian of Edith Hemenway Eustis Library of the Department of Hygiene and Physical Education</i>
RUTH FORD CATLIN,	<i>Librarian of Susan M. Hollowell Memorial Library and of Caroline B. Thompson Memorial Library</i>
ELIZABETH MARIA TRUMBULL,	<i>Librarian of the Art Library</i>
MARGARET DYE TRUITT, B.A.,	<i>Librarian of the Music Library</i>

PHYSICIANS

ELIZABETH LOUISE BROYLES, M.D.,	<i>Resident Physician</i>
MARY FISHER DEKRUIF, M.D.,	<i>Health Officer, and Instructor in Hygiene and Physical Education</i>
MARGARET RIOCH ANTHONISEN, M.D.,	<i>Consultant in Mental Hygiene</i>
MARION COTTON LOIZEAUX, M.D.,	<i>Assistant Physician</i>
ANNINA CARMELA RONDINELLA, M.D.,	<i>Consulting Ophthalmologist</i>

ASSISTANTS, CUSTODIANS AND SECRETARIES

ANNA ELIZABETH ANDERSON,	<i>Secretary to the Department of Hygiene and Physical Education</i>
GRACE ETHEL ARTHUR, B.A.,	<i>Secretary to the President</i>
STELLA FRANCES BREWSTER, B.A.,	<i>General Secretary of the Christian Association</i>
KATHARINE BULLARD DUNCAN,	<i>Custodian of the Whitin Observatory</i>
VIRGINIA PHILLIPS EDDY, B.A.,	<i>Assistant Secretary to the President</i>

- MARION FRANCES FINLAY, B.A.,
Secretary and Custodian to the Department of Botany
- CELIA HOWARD HERSEY, B.A.,
Secretary of the Farnsworth Art Museum
- EMILY MAY HOPKINS, B.S.,
Custodian to the Department of Chemistry
- MARION DOROTHY JAQUES, B.A.,
Recorder in the Department of Hygiene and Physical Education
- MARION JOHNSON, B.A.,
Secretary to the Dean of the College, and to the Class Deans
- KATHLEEN MILLICENT LEAVITT,
Secretary and Custodian to the Department of Zoölogy
- MARION LEWIS, B.A.,
Assistant to the College Recorder
- MARION DOUGLAS RUSSELL, B.A., ED.M.,
Associate in the Personnel Bureau
- EDITH ALDEN SPRAGUE, B.A., B.S.,
Appointment Secretary in the Personnel Bureau
- MARGARET PATTERSON SURRE, M.A.,
Cataloguer in the Art Museum
- ANNE WELLINGTON, B.A.,
Secretary of the Board of Admission

HEADS OF HOUSES

- HELEN WILLARD LYMAN, B.A.,
Head of Cazenove Hall
- CHARLOTTE HENDERSON CHADDERDON,
Head of Claffin Hall
- ETHEL ISABELLA FOSTER,
Head of Olive Davis Hall
- MARY GILMAN AHLERS, B.A.,
Head of Crofton House
- ELIZABETH REES PASCHAL, PH.B.,
Head of Munger Hall
- MARTHA HOYT WHEELWRIGHT,
Head of Tower Court
- HELEN DROWNE BERGEN,
Director of Horton, Hallowell and Shepard Houses
- FRANCES BADGER LYMAN,
Head of Norumbega House

*GENEVIEVE SCHUYLER ALVORD,	<i>Head of Beebe Hall</i>
INEZ NICHOLSON CUTTER,	<i>Head of Elms</i>
MARY ELIZABETH LINDSEY, B.A.,	<i>Head of Dower House</i>
KATHERINE URSULA WILLIAMS, B.A.,	<i>Head of Severance Hall</i>
LILIAN HASKELL LINCOLN, B.A.,	<i>Head of Homestead</i>
DOROTHY WARNER DENNIS, B.A., DIPL. E.U.,	<i>Head of Maison Crawford</i>
FRANCES HOYT LEWIS, M.A.,	<i>Head of Shafer Hall</i>
LOUISE BOLARD MORE, M.A.,	<i>Head of Stone Hall</i>
MARGUERITE MALLET RAYMOND, B.A.,	<i>Head of Pomeroy Hall</i>
MARY ISABELLE WIGGIN, B.A.,	<i>Head of Noanett House</i>
HENRIETTA PAGE ALEXANDER, B.A.,	<i>Head of Eliot House</i>
JOSEPHINE WILLIAMS BROWN,	<i>Head of Clinton House</i>
NANCY EUGENIA FOSTER,	<i>Head of Washington House</i>
MARGUERITE LIVINGSTON THOMAS, B.A.,	<i>Head of Little House</i>
AMY KELLY, M.A.,	<i>Head of Fiske House</i>
VIOLA FLORENCE SNYDER,	<i>Head of Beebe Hall</i>

BUSINESS ADMINISTRATION

JAMES DEAN, B.A.,	<i>Treasurer</i>
EVELYN AMELIA MUNROE, B.A.,	<i>Assistant Treasurer</i>
ESSIE MAY VAN LEUVEN DECKER,	<i>Comptroller</i>
CHARLES BOWEN HODGES, M.E.,	<i>Business Manager</i>

* Died October 22, 1934

FREDERICK DUTTON WOODS, B.S.,	<i>Superintendent of Grounds</i>
WILFORD PRIEST HOOPER, B.S.,	<i>Superintendent of College Buildings</i>
FLORENCE IRENE TUCKER, B.A.,	<i>Purveyor</i>
MARY ELIZABETH CUTTING, PH.B.,	<i>Dietitian</i>
JESSIE RICHARDS ADAMS,	<i>Manager of the Information Bureau</i>
AVA CLOSE MINSHER,	<i>Manager of the Post Office</i>
ELIZABETH ANNE BRADSTREET, B.A.,	<i>Director of Publicity</i>

STANDING COMMITTEES

ADMINISTRATIVE BOARD.—Dean Coolidge (*Chairman*), Misses Armstrong, Johnson, McElroy, Ruet, Stark, Treudley; and (*ex officiiis*) the President, the Dean of Residence, the Class Deans, the College Recorder, and a College Physician.

BOARD OF ADMISSION.—Dean Knapp (*Chairman*), Misses Coe, Robathan, Thomas, Wilson; and (*ex officiiis*) the President and the Secretary of the Board of Admission.

COMMITTEE ON COLLEGE PROBLEMS.—Miss George (*Chairman*), Misses Bruel, Howard, McCarthy, McCosh; Mrs. Hodder.

BOARD OF CONTROL OF THE ALEXANDRA GARDEN AND HUNNEWELL ARBORETUM.—Miss Ottley (*Chairman*), Miss H. I. Davis; and (*ex officiiis*) the President and the Chairman of the Department of Botany.

COMMITTEE ON CURRICULUM AND INSTRUCTION.—Dean Coolidge (*Chairman*), Misses Copeland, Donnan, Griggs, Overacker, Perkins, Sleeper; and (*ex officio*) the President.

FACULTY MEMBERS IN GRADUATE COUNCIL.—Misses Abbot, Batchelder, Bliss, Bosano, Der Nersessian, Shackford, Thompson; Mr. Hinners; Mrs. Hodder; and (*ex officio*) the President.

COMMITTEE ON GRADUATE INSTRUCTION.—Dean Hughes (*Chairman*), Misses Clark, French, Manwaring, Parker, L. P. Smith; Mr. Smith; and (*ex officiiis*) the President, the Dean of the College and the Director of the Department of Hygiene and Physical Education.

LIBRARY COMMITTEE.—Miss Roberts (*Chairman*), Misses Moody, Tuell, J. B. Williams; Mrs. Houck, Mrs. Killough; and (*ex officiiis*) the President and the Associate Librarians.

COMMITTEE ON SCHOLARSHIPS.—Miss Crocker (*Chairman*), Mrs. Bongiorno, Misses Bushee, Kaan, Stearns; and (*ex officiiis*) the Dean of the College, the Dean of Residence, the Dean of Freshmen, the College Recorder, and the Secretary to the President.

FACULTY MEMBERS IN SENATE OF COLLEGE GOVERNMENT ASSOCIATION.—Misses Lindsay, Barnette Miller, Snow; Mrs. Wheelwright; Mr. Mussey; and (*ex officio*) the President.

FACULTY MEMBERS IN SUPERIOR COURT.—Misses Bliss, Thompson; Mrs. Alvord; and (*ex officio*) the President.

COMMITTEE ON STUDENT RECORDS.—Dean Coolidge (*Chairman*), Misses Johnstin, Jones, Moses, Orvis; Mr. Jenks; and (*ex officiiis*) the President, the Class Deans, the College Recorder, and the Director of the Personnel Bureau.

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, Mr. William S. Houghton, a trustee of the College from 1880 to his death in 1894. 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 department of music.

The Wellesley College Christian Association is organized to foster religious life, and interest in social reforms and in home and foreign service.

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

ADMISSION

Students may qualify for admission to Wellesley College as candidates for the bachelor of arts degree either as members of the freshman class on the presentation of satisfactory entrance credentials, including school records and entrance examinations, or as students with advanced standing with records of accomplishment in other colleges. Since the size of the student body is limited to about fifteen hundred students, candidates in both groups are chosen very carefully in order of the excellence of their credentials including testimonials concerning health, character, and scholarship. A student is not admitted, except in very unusual cases, who is not at least sixteen years of age.

If a student is unable to meet the academic standard prescribed in college or if she does not conduct herself in accordance with the regulations which are necessitated by the interests of a community of students and faculty organized for purposes of study, she may be required to withdraw from the College.

APPLICATION FOR ADMISSION

Forms of application will be furnished on request. An application fee of \$10 is required of all applicants and no registration is recorded until the fee is received. If paid *before* March 15, 1931, the application fee of \$10 will be credited on the first tuition bill; if paid *after* March 15, 1931, the application fee will not be credited on any bill. If the candidate cancels her registration or fails to qualify for admission, the fee is not refunded but it may be transferred to apply to a later year if the request for the transfer is received before November 1 of the year for which the candidate was registered to enter college. If a candidate's credentials are not received by July 15 and no request to transfer the application is filed by November 1, the name of the candidate will be automatically dropped from the list.

The Board of Admission cannot usually consider applications received later than May 1 of the year in which admission is sought. The date of application is used as a basis for assigning rooms to accepted candidates. It is not considered in the selection of candidates.

All communications concerning admission should be addressed to the Secretary of the Board of Admission, Wellesley College, Wellesley, Massachusetts.

HEALTH CERTIFICATES

A report from the applicant's physician showing that she is organically sound and in good health, together with a certificate of recent vaccination, must be filed with the Secretary of the Board of Admission

before June 1 of the year in which admission is sought. Blank forms for these health reports will be sent to each registered applicant in the year previous to her proposed entrance to college. Before a candidate is formally accepted she is given a thorough physical examination in the opening week of college under the direction of the college medical staff and the department of physical education. The College reserves the right to reject any candidate who, in the opinion of the college physicians, is not fitted for work in the college community.

ADMISSION TO THE FRESHMAN CLASS

Through its admission procedure, the College tries to select students with good intellectual ability, adequate preparation for further study, genuine interest in some of the lines of study offered at Wellesley College, and a purpose which will give incentive to steady work. In discovering such students, the Board of Admission studies such criteria as school records and recommendations, entrance examinations, psychological or scholastic aptitude tests, information from the candidate concerning her interests and plans for study. An attempt is made to evaluate all these records in the selection of members of the freshman class.

SCHOOL RECORDS

Complete records of a student's work in secondary school are required. Blanks for the preliminary records are sent to school principals in the spring, a year in advance of the student's completion of preparatory work. Blanks for supplementary records are sent in the spring of the year of final preparation for college. The Board of Admission examines these records carefully to discover evidence of intellectual ability, growth of power, interest in special fields of study, and steadiness of application.

The school record must be supplemented by statements from the school principals, concerning the special abilities and interests of the student, power of sustained work, good health habits, integrity, sense of responsibility, co-operativeness, initiative and self-reliance in work and in social action. The College wishes to be informed of circumstances which may have interfered with a student's work and of special honors and accomplishments during the student's secondary school course.

ADMISSION PLANS

There are four possible plans of admission to Wellesley College. A description of each plan follows.

PLAN A.—This plan calls for examinations in all subjects offered for admission credit, either the examinations of the College Entrance Ex-

amination Board, Regents examinations of New York State or, for foreign students, the matriculation examinations of a foreign university. Plan A is used by less than a third of the candidates for admission to Wellesley College.

Examinations under this plan may be taken in two or more successive years. Students are advised to take final examinations in subjects which they expect to continue in College. Either the comprehensive or the ordinary examinations of the College Entrance Examination Board may be used.

Entrance examinations in Biblical History, Harmony, Music Appreciation and Applied Music will be conducted by Wellesley College. Applications for these examinations must be made to the Secretary of the Board of Admission of Wellesley College by May 1.

For detailed information concerning the application for the examinations of the College Entrance Examination Board, candidates should consult the statement on pages 30-32 under the caption "Examinations of the College Entrance Examination Board."

PLAN B.—Under Plan B four examinations of the College Entrance Examination Board are considered in connection with the school record to determine a candidate's admission. One examination subject must be chosen from each of the following groups: (1) English or History; (2) a foreign language; (3) Mathematics, Physics, or Chemistry; (4) a fourth subject designated by the applicant from the list of subjects offered for admission in which the College Entrance Examination Board offers examinations. At least two examinations must cover more than two units of work.

In History and Science the examination is based on one unit only. In Mathematics candidates may take either Mathematics A (Algebra), Mathematics C (Plane Geometry), Mathematics Cp. 3 (Algebra and Plane Geometry), or Mathematics H (Trigonometry and Solid Geometry). In Latin if students have passed a preliminary examination covering three units of Latin, they may take Latin H or K (fourth year Latin). In all subjects candidates are expected to take the most advanced examination for which their preparation has fitted them.

The Board of Admission must give its permission, based upon the evidence submitted by the school, before the applicant may take the examinations. The comprehensive examinations set by the College Entrance Examination Board are judged by readers appointed by this Board, and are forwarded to the College for final decision by the Board of Admission.

Under Plan B the candidate, if admitted to college, will be admitted free from all conditions. Failure to meet completely the standard in either kind of evidence required will not necessarily involve rejection of

the applicant; the Board may accept unusual excellence in one part of the credentials submitted as offsetting unsatisfactory evidence or even failure in another part. If the candidate fails of admission she may be permitted to take examinations under Plan A or Plan B the following June.

The four examinations must be taken in one examination season in June in the examination centres provided by the College Entrance Examination Board. Full details about applying for these examinations will be found on pages 30-32 under the caption "Examinations of the College Entrance Examination Board."

PLAN C.—Under this plan candidates may take at the end of the junior year the Scholastic Aptitude Test and two examinations (not English) from the groups now required by Plan B. On the basis of the results of these examinations, the Scholastic Aptitude Test, school records, and recommendations from the principal, provisional acceptance may be given. Final acceptance will depend upon the results of the remaining two examinations which are to be taken at the end of the senior year and upon the school records of that year.

The examinations used in this plan are those given by the College Entrance Examination Board. The results of the examinations are reported to the College instead of to the candidate as in Plan B.

A candidate who is not provisionally accepted at the end of the junior year, may apply for admission by examinations to be taken in the senior year under any College Board examination plan acceptable to the College.

Candidates wishing to enter by Plan C should make application to the Board of Admission on or before May 1 of their junior year in secondary school and permission to take examinations under Plan C must be obtained from the Board of Admission.

PLAN D.—Admission under this plan is on the basis of the school records and recommendations and the Scholastic Aptitude Test. To be considered for admission by Plan D a candidate must have ranked, during the last two years of her school course, among the highest seventh of a graduating class containing at least seven students. She must have covered the equivalent of a standard four-year high school course which satisfies in general the requirements for approval under Plan B. Unqualified recommendation of the candidate by her school principal or headmistress is essential.

Since all admission is on a competitive basis, candidates for entrance by Plan D cannot be guaranteed admission. They may become eligible for admission subject to the same conditions as candidates applying for entrance by examination. As heretofore, final selection of all candidates is made by the Board of Admission on the consideration of all evidence, both personal and academic.

Candidates from any school may be considered for admission by this plan. The College, however, will feel free to consider the geographical distribution of students in the entering class and the proportional representation from public and private schools.

Regulations governing the administration of Plan D:

1. Candidates are eligible to apply for admission without examination other than the Scholastic Aptitude Test, only in the year in which they first graduate from a secondary school.
2. Candidates must register with the College Entrance Examination Board to take the Scholastic Aptitude Test.
3. Applications should state specifically:
 - (a) The number of pupils in the graduating class.
 - (b) The applicant's exact numerical rank in the class.
4. Applications must be filed in the office of the Secretary of the Board of Admission on or before May first in the year in which the candidate first graduates from a secondary school.

SCHOLASTIC APTITUDE TEST

The Scholastic Aptitude Test of the College Entrance Examination Board is required of all candidates for admission and students are now advised to take the Scholastic Aptitude Test at the end of the junior year in secondary school.

EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

JUNE EXAMINATIONS.—The College Entrance Examination Board will hold examinations in June 1935 at over three hundred points in this country and abroad. A list of these places will be published about March 1, 1935. Requests that the examinations be held at particular points should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1, 1935.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually about December 1. Upon request to the Secretary of the College Entrance Examination Board a single copy of this document will be sent to any teacher without charge. In general, there will be a charge of thirty cents, which may be remitted in postage.

All candidates wishing to take these examinations should make application by mail to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. Blank forms for this purpose will be mailed by the Secretary of the Board to any teacher or candidate upon request by mail.

The applications and fees of all candidates who wish to take the

examinations in June 1935 should reach the Secretary of the Board not later than the dates specified in the following schedule:

FOR EXAMINATION CENTERS:

In the United States east of the Mississippi River or on the Mississippi.	May 27, 1935
In the United States west of the Mississippi River or in Canada.	May 20, 1935
Outside of the United States and Canada, except in Asia.	May 6, 1935
In China or elsewhere in the Orient.	April 22, 1935

An application which reaches the Secretary later than the scheduled date will be accepted only upon payment of \$5 in addition to the regular examination fee of \$10.

When a candidate has failed to obtain the required blank form of application, the regular examination fee will be accepted if the fee arrive not later than the date specified above and if it be accompanied by a memorandum with the name and address of the candidate, the exact examination center selected, and a list of the subjects in which the candidate is to take the Board examinations.

Candidates who have failed to file applications for examination may be admitted by the supervisor upon payment of a fee of \$5 in addition to the regular examination fee. Such candidates should present themselves at the beginning of the period of registration. They will receive from the supervisor blank forms of application which must be filled out and transmitted to the Secretary of the College Entrance Examination Board.

In order to exhibit their tickets of admission, to present their identification cards, and to obtain seats in the examination room, candidates should report for a morning examination at 8:45 and for an afternoon examination at 1:45. An examination will close for candidates admitted late at the same time as for other candidates. The examinations will be held in accordance with the time (Standard Time or Daylight Saving Time) observed in the local schools.

No candidate will be admitted to the Scholastic Aptitude Test late, that is, after the test has begun.

The Scholastic Aptitude Test, which will be held on the morning of Saturday, June 22, 1935, may be taken upon the completion of the school course or at the end of the third year of secondary school work. Each candidate desiring to take this test, even though he is to take no other examination, must file with the Secretary of the Board the usual application for examination. If the Scholastic Aptitude Test is taken in connection with other examinations, no additional fee is required; if taken alone, the fee is \$10.

A week in advance of the Scholastic Aptitude Test each candidate who is to take the test should receive a booklet containing, with explanations and instructions, a specimen test, the blank spaces of which are to be filled in by the candidate. In order to secure admission to the test, the candidate must present not only his ticket of admission but also this booklet with the spaces filled in as requested.

It is very desirable that candidates who are to take the Scholastic Aptitude Test file their applications with the Secretary. Applications for the test will be accepted by the supervisor, however, up to the day before the test provided the supervisor's supply of material for the Scholastic Aptitude Test is sufficient.

SEPTEMBER EXAMINATIONS.—The comprehensive examinations of the College Entrance Examination Board are offered in September at Wellesley College. Special permission to take these examinations must be obtained from the Board of Admission of Wellesley College, and requests should be entered by August 20. The September examinations are conducted primarily as final examinations for a limited number of promising students who have incurred only a slight failure in the June examinations under Plan A.

SCHEDULE OF EXAMINATIONS

SEPTEMBER, 1935

MONDAY, SEPTEMBER 16

9-12 A.M.	English.
2- 5 P.M.	French.

TUESDAY, SEPTEMBER 17

9-12 A.M.	Latin.
2- 5 P.M.	History.

WEDNESDAY, SEPTEMBER 18

9-12 A.M.	Elementary Mathematics.
2- 5 P.M.	German, Italian, Spanish.

THURSDAY, SEPTEMBER 19

9-12 A.M.	Chemistry, Physics.
2- 5 P.M.	Greek, Advanced Mathematics.

FRIDAY, SEPTEMBER 20

9-12 A.M.	Scholastic Aptitude Test.
2- 5 P.M.	Biology, Botany, Zoölogy.

REGENTS EXAMINATIONS

Regents examinations with a rating of 75 per cent may be offered in place of the examinations of the College Entrance Examination Board. Credits must be presented on the card verified by the State Board of Education of New York. The Board of Admission considers an average lower than 85 per cent as doubtful evidence of ability for college work. For further information concerning the acceptance of Regents Examinations candidates are referred to the Board of Admission of Wellesley College.

DATES ON WHICH ADMISSION CREDENTIALS ARE DUE

The following credentials must be in the hands of the Board of Admission before July 15 of the year in which entrance is desired:

1. Personal information blank with the candidate's choice of examination plan.
2. Before March 1—Scholarship applications and requests for financial aid. (*Form* must be obtained in advance. For information of basis of award, see page 163.)
3. Before June 1—Health certificates and two 2" by 1½" photographs.
4. During May—Application for examinations of the College Entrance Examination Board, including Scholastic Aptitude Test (for exact dates, see pages 30-31.)
5. Before July 1—Official transcript of school record for the final year. (Blank sent to school in May.)
6. Before July 15—Official reports of Regents examinations.

PLAN OF ENTRANCE SUBJECTS*

The plan of entrance subjects proposed by Wellesley College is designed to give the student a foundation for various fields of study in the liberal arts college. Since most college applicants have good general ability in several lines of work and are uncertain when they enter college where their interests in more advanced study may lead, it is important for them to secure in secondary school such training and information as will give them an introduction to several fields of study and such fundamental courses as will open to them the greatest freedom of election in college. All students should offer a minimum of 15 entrance units†. The experience of the past has seemed to indicate the value of the following units for the majority of students:

* This plan will go into effect for the class entering in September 1936. It is optional for candidates for admission in September 1935.

† A unit represents a year's study of a subject with four or five class appointments a week or not less than the equivalent of 120 sixty-minute hours of classroom work, two hours of laboratory work counting as one hour of classroom work.

English	3 units
Foreign Language	5 units
Latin or Greek	3 units
†A modern language	2 units
French; German; Italian; Spanish	
History	1 unit
Mathematics	3 units
Algebra	2 units
Plane Geometry	1 unit
Science	1 unit

This plan allows every student 2 elective units for additional work in the fields which she believes have greatest value for her. Since most students complete more than 15 units in secondary school there is usually even wider opportunity for election. This plan recommended by the College as the normal admission program is to be followed by all candidates for admission with the possible exceptions indicated below. An exception to the normal program either in foreign language or in mathematics or in science is allowed to students who meet the conditions stated in paragraph (1) or paragraph (2) below. Any other exceptions necessitate a special permission from the Board of Admission.

(1) Students from schools emphasizing sequences of work in the natural sciences and mathematics or whose individual interests and abilities are centered in these fields may substitute for the language requirement indicated above a choice of any 5 units from the following group: French 2 or 3 units; German 2 or 3 units; Latin 2 units.

(2) Students definitely interested in the fields of language, literature, the arts, or social sciences who wish to increase their offering in these fields more than the free electives permit may offer in mathematics 2 units only, provided the course includes both algebra and plane geometry; or they may offer 3 units of mathematics and omit the unit of science. Students interested in economics, mathematics, or science should offer at least 3 units of mathematics for admission.

In the elective group of units the College will be glad to accept additional units in any of the subjects listed in the normal program or 1 or 2 units of art or music, a unit of Biblical history, and 1 or 2 units in the social sciences besides history. Students interested primarily in languages, literature, and the arts are advised to offer for admission 4 units of Latin and 2 units of history, of which 1 unit should be European history.

† A single unit of language is not accepted for admission credit.

The Board of Admission is interested also to consider courses which do not follow the published descriptions of unit requirements in subjects as they are indicated in this Calendar, especially if such courses are organized as sequences of study in given fields.

The College wishes to coöperate with schools and applicants for admission in their effort to organize such programs of study as will further the real educational needs of students in their secondary school course and will also give an adequate basis for continuing their work in college. Students are urged to discuss their plans of work early in their secondary school course with their school advisers and to confer also with the College Board of Admission. In advance of correspondence with individual students, the Board will welcome from the school principals information about unusual curricular plans or courses which the schools recommend to their college groups.

DEFINITION OF REQUIREMENTS

The definitions of requirements in all subjects in which the College Entrance Examination Board offers examinations are based on the statements outlined by this Board. The complete statement of these requirements may be found in the pamphlet called "A Definition of Requirements," published annually by the College Entrance Examination Board, which may be obtained by sending thirty cents in stamps to the following address: College Entrance Examination Board, 431 West 117th Street, New York City.

In the following statement of requirements, the number enclosed in parentheses following the subject indicates the number of units assigned to that subject, that is, the number of years with four or five recitations a week which will normally be required in the secondary school for adequate preparation in the subject.

ENGLISH (3)

The department has adopted the new requirements of the College Entrance Examination Board that appear in the current number of the "Definition of Requirements." To this document candidates are referred for detailed information about the work to be accomplished to meet the requirements in English.

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

COMPOSITION.—It is advisable that subjects for composition be taken from the student's personal experience, general knowledge, and studies other than English, as well as from her reading in literature. Practice

should be given in writing themes of from five to six hundred words and in making simple outlines.

LITERATURE.—A list of the books recommended for reading and study, and suggestions concerning preparation for the College Board examinations in English will be found in the "Definition of Requirements."

HISTORY (1, 2 OR 3)

All applicants for admission are required to offer one unit in History. One or two additional units of History may be offered from the following: (1) American History (with or without Civil Government), (2) Ancient History, (3) English History, (4) European History. For suggestions about preparation in History and the scope of the College Board examinations candidates are referred to the "Definition of Requirements."

MATHEMATICS (2, 3 OR 4)

In the document entitled "Definition of Requirements," published by the College Entrance Examination Board, will be found the description of the requirements.

ALGEBRA.—The requirement is met by the course in Mathematics designated as A 1 (one unit) OR A (two units).

PLANE GEOMETRY.—The requirement is met by the course in Mathematics designated as C. If desired, the course designated as CD may be substituted.

SOLID GEOMETRY AND TRIGONOMETRY.—The requirement is met by the courses in Mathematics designated as D and E.

LATIN (2, 3 OR 4)

There are no prescribed readings in Latin, but the following recommendations are made:

(1) In the second year the early reading should be easy Latin which may be "made" or adapted Latin; not less than one half of this year should be devoted to the reading of selections from Cæsar. The reading for the year may also include easy selections from such authors as Aulus Gellius, Eutropius, Nepos, Phædrus, Quintus Curtius Rufus, and Valerius Maximus, or books of selections containing some of these together with authors of prose works.

(2) In the third year, if the reading be in prose, not less than one half should be devoted to the reading of selections from Cicero; the reading for the year may also include selections from such authors as

Pliny, Sallust, and Livy, or books of selections containing these and other authors of prose works.

(3) In the fourth year, if the reading be in poetry, not less than one half should be devoted to the reading of selections from Vergil; and the reading for the year may also include selections from such works as the *Metamorphoses*, *Tristia*, *Heroides*, and *Fasti* of Ovid, or books of selections containing poems or extracts from Ovid or from other poets.

Further information concerning the character of the examination in four units of Latin will be found in the "Definition of Requirements."

FRENCH, GERMAN, ITALIAN, SPANISH (2, 3, OR 4)

Candidates in these departments are referred to the "Definition of Requirements" published by the College Entrance Examination Board.

It is essential that the student should become accustomed from the beginning to the use of the spoken language in the classroom.

GREEK (2 OR 3)

2 UNIT REQUIREMENT.—During the two years the student should acquire a knowledge of the language sufficient to enable her (1) to translate at sight simple passages of Attic prose; (2) to translate into Greek a passage of connected English narrative, based on Xenophon; (3) to read Greek aloud with correct pronunciation and with full expression of the sense of the passage.

The prescribed study includes—(1) Grammar: inflections; the simpler rules for composition and derivation of words; use of cases; construction of sentences, with particular regard to the use and meanings of the moods. (2) Prose Composition: regular practice in writing or speaking Greek, with at least twenty written exercises, including some connected passages. (3) Three books of Xenophon's *Anabasis*, or its equivalent.

3 UNIT REQUIREMENT.—In addition to the preparation for the two unit requirement stated above, the student must be able to translate at sight a passage from Homer, and to read it with a correct expression of the rhythm.

The prescribed study includes: three books of Homer's *Iliad*; Prose Composition, continued practice in translation into Attic prose of connected passages of English.

SCIENCE (1, 2 OR 3)

One to three units of science may be offered from the following subjects: (1) Biology, (2) Botany, (3) Chemistry, (4) Geography, (5) Physics, (6) Zoölogy. The requirements in science are met by the

courses outlined in the "Definition of Requirements." The requirement in Botany may also be met by covering the main features in the course outlined in the Laboratory Guide for the introductory course at Wellesley College. Copies of this guide may be secured if desired from the office of the Board of Admission, Wellesley College.

Students are not required to submit laboratory notebooks for admission credit in science.

MUSIC (1 OR 2)

One unit of admission credit is granted in either Harmony or Appreciation.

Two units of admission credit are granted for either of the following combinations: I. Harmony and Practical Music; II. Appreciation and Practical Music.

No admission credit is given for Practical Music alone.

A. HARMONY.—Students taking this examination must present, at the time of the examination, their harmony notebooks indorsed by their teachers. The examination will be adapted to the proficiency of those who have had one year's systematic training with at least five lessons a week or its equivalent. (It is understood that this work may be done in two or more years.) The candidate should have acquired:

(1) The ability to harmonize in four vocal parts simple melodies or basses of not fewer than eight measures in major and minor. These melodies and basses will require a knowledge of (a) triads and inversions, (b) diatonic seventh chords and inversions, (c) non-harmonic tones, (d) modulation, transient and complete, to nearly-related keys.

It is expected that systematic work in ear-training, involving the recognition of intervals (melodic and harmonic), melodies, and chords, has been done in connection with the above, and students will be examined in the same.

The ground covered by this examination is represented by the following textbooks. Goetschius: *The Theory and Practice of Tone Relations*, Chaps. I through XXI. Foote and Spalding: *Modern Harmony*, Chaps. I through XXI. Gehrkens: *Music Notation and Terminology* is suggested for rudiments, and Wedge: *Ear-Training and Sight-Singing* for practice in the recognition of intervals and for melodic dictation. Material for practice in the recognition of chords may be found in any harmony textbook.

B. APPRECIATION.—It should be the purpose of this course (a) to provide suitable training to accompany the study of practical music during the preparatory years, (b) to prepare students for entering a course in elementary harmony, (c) to acquaint students with a small

but representative literature of music and with some of the elements of musical form.

The course should cover the following:

(NOTE: It is suggested that the material outlined below under I and II be made *prerequisites* to the course, not included in it.)

I. Elements: names of the scale tones; scale formation, major and minor; key signatures; commonly used time signatures; commonly used marks of expression; chord formations including the dominant seventh.

II. Ear-training: recognition of major and minor scales and triads; recognition of all intervals in major and minor scales; recognition of plagal cadence, perfect cadence, half cadence, deceptive cadence; recognition of duple and triple meters and of rhythms characteristic of Waltz, Minuet, Mazurka, and Polonaise.

III. A study of the following forms: Simple Three-part Song-form, Binary Form, Ternary Form, Rondo Form, Theme and Variation Form, Minuet and Trio Form.

In testing this knowledge, the student will be required to recognize the form of a composition upon hearing it played three times.

IV. Memory work. The examination will include a memory test of representative musical examples. A list of at least twenty examples chosen by the student (from the works suggested for use in appreciation courses by the music departments of three Eastern Women's Colleges*) must be presented to the examiner. The examination on this part of the work will be based on the list thus presented.

C. PRACTICAL MUSIC

PIANO. The candidate must be prepared to play for the examiners the following and no candidate will be examined who is not *ready to perform* these requirements: (1) Any scale (including major and all forms of minor) at metronome speed of four notes = 88. (2) Any two studies selected by the student from Czerny, Opus 261, Heller, Opus 45, or Le Couppey, Opus 20. (3) A Bach Two-Part Invention. (4) The first movement of a sonata by Haydn, Mozart, or Beethoven. (5) A piece of moderate length (which must be memorized) selected from the works of Schubert, Schumann, Mendelssohn, or Chopin. (6) Hymn tunes and simple pieces at sight.

BIBLICAL HISTORY (1)

A course such as the one outlined by a committee of the National Association of Biblical Instructors will meet the requirement. A

*A list of these compositions will be furnished on application to the Department of Music of Wellesley College.

statement of this course has been published in "Christian Education," June and October, 1932, and a reprint of this can be obtained for twenty-five cents from the Council of Church Boards of Education, 111 Fifth Ave., New York City.

ADMISSION TO ADVANCED STANDING

TERMS OF ADMISSION

The number of students admitted to advanced standing in any year is limited and all entrance is on a competitive basis. If a student has maintained an excellent record in college and has special interests which she can follow out at Wellesley College, the Board of Admission encourages her to apply for entrance with advanced standing credit. For information about registration candidates should read page 26.

A candidate should show that she has covered the admission requirements for the freshman class of fifteen units of secondary school work (see page 33) and has completed at least a full year of highly satisfactory work at another college. She should be entitled to honorable dismissal from the college which she has attended and should be recommended by her instructors. The Board of Admission will give information about the colleges and universities from which credits are accepted.

Residence of at least two years is required to obtain the B.A. degree, of which one must be the senior year. The work of these two years must include all the prescribed work (see page 43), not covered by the credentials submitted. The exact amount of credit given for work completed in another college will not be determined until after the first year of residence. The success with which advanced standing candidates carry the work in the first year at Wellesley is a determining consideration in deciding credit.

The selection of applicants for admission with advanced standing will be made in July of the year in which entrance is desired.

CREDENTIALS

The following credentials must be in the hands of the Board of Admission before July 1 of the year in which entrance is desired:

1. Official statement of college credits, with dates of attendance, courses offered for credit, grades attained in each course, entrance credits, and honorable dismissal.
2. Official record of any entrance examinations which have been taken.
3. Copy of the catalogue of the college attended, with name of candidate, list of courses offered for credit, and page references.

4. Letter of recommendation from one of candidate's instructors and the Dean.
5. Health credentials.
6. Statement from candidate of her reasons for wishing to transfer to Wellesley College and of the subjects of her major interest.

ADMISSION OF CANDIDATES FOR THE M.A. AND M.S. DEGREES

Candidates for the degree of Master of Arts or Master of Science in Hygiene and Physical Education must be graduates of Wellesley College or of other institutions of satisfactory standing, and must present adequate credentials signifying their ability to carry on the work for the degree.

Application for admission as a graduate student in any department should be made upon a form which will be furnished by the Dean of Graduate Students on request. It is desirable that the application be sent by March first of the year in which the student proposes to enter. It should be accompanied (1) by the official record of courses and grades, (2) by a copy of the catalogue of the institution attended, marked to indicate the courses taken, (3) if possible, by papers and reports of work.

A matriculation fee of five dollars is payable when a student is accepted as a candidate for the Master's degree. The amount of this fee will be deducted from the diploma fee of twenty-five dollars payable when the degree is received.

Graduate fellowships and scholarships are described on pages 159-162.

A circular containing full information for graduate students will be sent on application to the Dean of Graduate Students. For requirements for the M.A. and M.S. degrees see page 47.

ADMISSION OF STUDENTS NOT CANDIDATES FOR A DEGREE CANDIDATES FOR THE CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION

A two years' course, especially designed for the training of teachers of hygiene and physical education, and leading to the certificate of the Department of Hygiene and Physical Education, is offered to graduates of approved colleges who meet the requirements. Full information will be found on pages 116-121.

Correspondence should be addressed to the Dean of Graduate Students.

CANDIDATES FOR SPECIAL WORK IN OTHER DEPARTMENTS

Applicants who give satisfactory evidence of ability to pursue advanced courses of study may be admitted at the discretion of the

Board of Admission, provided that they satisfy the requirements of the departments which they propose to enter. It will be noted that opportunities for 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 attainment are not ordinarily admitted. If such desire admission they must expect to meet by examination 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. Specific statements of these requirements in Music will be found on page 134.

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.

Correspondence should be addressed to the Secretary of the Board of Admission.

DEGREES

The following degrees are conferred by the Trustees upon recommendation of the Academic Council:

Bachelor of Arts.

Master of Arts.

Master of Science in Hygiene and Physical Education.

REQUIREMENTS FOR THE B.A. DEGREE

In constructing the curriculum of which the requirements are given below, the faculty was guided by a belief that a student's four years in college should give her several specific sorts of training. The *prescribed work* is planned to assure her possession of certain skills which are of general use, and to add to the information which she has acquired before coming to college further information considered of fundamental importance. Thus the prescribed work in English Composition, Speech, and foreign language is designed to assure her having accuracy and effectiveness in speaking and writing English, and in reading at least one foreign language. The prescription in Hygiene affords the student a knowledge of the laws of health. The prescribed work in Biblical History gives a knowledge of the historical basis of Christianity.

The requirement of *work for distribution* is made with the purpose of securing for each student some acquaintance with methods of work and ways of thinking in various representative fields of knowledge. The requirement of *work for concentration* is made in order that the student shall make a reasonably thorough study of one field of knowledge. The curriculum is so planned that a student has an opportunity for a considerable amount of absolutely free elective work.

Every candidate for the B.A. degree in 1936 and thereafter must complete before graduation the equivalent of sixty hours, and have in addition a reading knowledge of either French or German.

The examination to test the student's reading knowledge of French or German may be taken at the beginning of the freshman, sophomore, or junior year. A reading knowledge of either Italian or Spanish may be accepted by the Academic Council as a substitute for a reading knowledge of French or German in cases in which students can show that such a knowledge of Italian or Spanish is needed by them as a tool for work in some particular field. Students majoring in a modern foreign language will be tested in a reading knowledge of a second language; such students may postpone the examination until the beginning of the senior year.

Of the sixty hours required for the B.A. degree a certain number is prescribed, a certain number must be elected to fulfill the requirements of *work for distribution* and *work for concentration*, the rest is free elective.

I. PRESCRIBED. The following subjects are required as specified:

Biblical History	3	hours
English Composition (unless exempted for the second semester by the department)	3*	"
Hygiene and Physical Education 120 (unless exempted by examination)	1	hour
Hygiene and Physical Education (practical)	1†	"
Speech (unless exempted by examination)	1	"

Of the required subjects, English Composition, three hours, must be taken in the freshman year; Hygiene and Physical Education one and one-half hours in the freshman year, and one-half hour in the sophomore year; Biblical History, three hours, in the sophomore year; Speech, one hour, before the junior year.

II. WORK FOR DISTRIBUTION. Six hours in addition to the prescribed work, to be elected in each of the three groups given below. The six hours in each of the three groups are to be elected so as to fall three hours in one department and three hours in another. Only one beginning course in a modern language may be counted for distribution.

Group I. Art, English Composition, English Literature, French, German, Greek, Italian, Latin, Music, Spanish, Speech.

Group II. Biblical History, Economics and Sociology, Education, History and Political Science, Philosophy and Psychology.

Group III. Astronomy, Botany, Chemistry, Geology and Geography, Mathematics, Physics, Zoölogy and Physiology.

Every freshman must take for distribution three hours in each of two groups; and every student is required to have had by the end of her sophomore year at least three hours counting for distribution in each group.

* If a student fails to pass with a grade of at least C in the second semester of English Composition 101, she will be required to take an additional semester course in the sophomore year.

† The second hour in Hygiene and Physical Education is met by four periods in practical work, two periods per week in the freshman year and two in the sophomore year.

III. **WORK FOR CONCENTRATION.** Twenty-one hours in one field of concentration, of which a major of twelve to fifteen hours shall be in one department, and nine to six hours shall be in courses related or supplementary to the major but falling in one or more departments other than that in which the major is taken.

All courses are classified in grades I, II, III; grade I including elementary courses and grade III the most advanced courses. Of the courses offered to fulfill the requirement of *work for concentration* at least one full course of grade III must be taken in the senior year. Of the twenty-one hours required at least nine hours must be above grade I and at least six hours must be of grade III.

Every candidate for the B.A. degree must pass a general examination in a major subject in addition to the regular course examinations.

COURSE 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 College Recorder 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 first; for the June examinations, May 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 chairman of the department concerned and her class dean. No student, therefore, should enter upon preparation for such an examination until her plan has been approved by both of the above named officers.

STANDARD FOR GRADUATION

A certain quality grade is required for graduation and for the purpose of determining this quality grade, numerical values called "points" are given to the grade letters as follows: for grade A, three points for each semester hour of the course in which the grade is received; for grade B, two points; for grade C, one point; for grade D (passing), no points; for a grade below D, no points and not counted in hours toward a degree. In order to be recommended for the degree of Bachelor of Arts a student must in each semester attain as many quality points as the hours she carries, i. e., a C average. Deficiency of points in any semester may be

made good only in accordance with regulations adopted by the faculty. Students who are deficient in quality points at the end of the third year or who are otherwise not of diploma grade will not be permitted to continue.

The College reserves the right to require the withdrawal of students whose scholarship is not satisfactory, and of those who for any other reason are regarded as not in accord with the ideals and standards which the College seeks to maintain.

HONORS IN A SPECIAL FIELD

Students who wish to become candidates for Honors may apply in the spring of their sophomore or junior year to the special committee appointed to consider these applications. All applications must be accompanied by recommendations from instructors.

A student electing to study for Honors will choose a Field of Special Study and will work in that field under the direction of one or more of the instructors concerned who will advise her on the possible development of her field and will guide her in the carrying on of independent work within it.

A candidate for Honors in a Special Field must take all the prescribed work, and a minimum of twenty-one hours in the chosen field. This field includes work in the major department and allied courses, and with the approval of the major department directing the work may include three hours of directed study independent of scheduled courses in the junior year and three hours in the senior year. The able student is thus led to form habits of investigation in a manner to assist her in advanced study.

Admission to Honors in a Special Field will be confined to candidates whose scholarship, maturity, and previous range of acquirement justify exceptional concentration. The work in the Field of Special Study for such a candidate will be subject to the following tests:

1. In general, the regular tests of the courses in the Field of Special Study must be taken.

2. A comprehensive examination must be taken in the student's field at the close of the senior year. This examination will take the place of the general examination required for seniors and will be in part or wholly oral.

PRE-MEDICAL COURSE

Each student who is planning to study medicine is advised to confer with her class dean before the beginning of her sophomore year.

Entering students are advised to elect two pre-medical sciences in the freshman year.

In general, requirements for admission to medical schools of Class A can be met by nine hours in Chemistry and six hours in Physics and Zoölogy respectively, but each student is advised to study carefully the requirements for the particular school which she has chosen.

Attention is called to the fact that twelve hours are required as a basis for the general examination in any department. It is, however, possible to fulfill the minimum requirement for medical schools, and to take the general examination in an entirely different field.

PREPARATION FOR HOSPITAL AND PUBLIC HEALTH WORK

Students planning to prepare for work in hospital or public health laboratories should begin both Chemistry and Zoölogy in their freshman year in order to have the necessary foundation for advanced courses. The departments of Botany, Chemistry, and Zoölogy should be consulted concerning combinations of courses in later years of the college course.

GENERAL INSTRUCTIONS

The program in the freshman year is as follows:

English Composition 101	3	hours
Hygiene 120	1	hour
Hygiene 121 (practical work 2 hours)	$\frac{1}{2}$	hour
Electives, 4 three-hour courses	12	hours
	<hr/>	
Total	16 $\frac{1}{2}$	hours

The courses must be chosen in accordance with the prerequisites given in the department statements from the list of courses named below, with the provision that one course must be chosen from each of two of the three groups (see below, and also page 43), and with the advice that the choice should not include two beginning courses in modern language.

ELECTIVE COURSES OPEN TO FRESHMEN, ARRANGED BY GROUPS

Group I. Art 101, 102, English Literature 101, French 101, 102, 103, 104, 201, German 101, 102, 104, Greek 101, 201, 202, 205, Italian 101, Latin 101, 103, Musical Theory 101, 102, 201, 203, 207, Spanish 101, 102, 103, Speech 101.

Group II. Economics 101†, History 101, 102, Political Science 104†, Philosophy 102†, 107†, Psychology 101†.

Group III. Astronomy 101, Botany 101, Chemistry 101, 102, 201, Geology 101, Mathematics 106, 107, Physics 101, 102, 104, 203, 205, Zoölogy 101.

† Require special permission of Dean of Freshmen.

By special permission a student who wishes to carry only fourteen and a half hours in her freshman year may take the one-hour French course 202, or Italian 102, or the required one-hour course in Speech if she has not elected the three-hour course in Speech.

If $16\frac{1}{2}$ hours are satisfactorily completed in the freshman year, the normal program for the remaining years would be as follows:

Sophomore year	$16\frac{1}{2}$ hours
Junior year	15 "
Senior year	12 "

If $16\frac{1}{2}$ hours are not completed in both the freshman and sophomore years, a student may carry more hours in the junior and senior years than specified above, subject to the usual regulations.

Elective courses must be chosen with great care so that changes will not be necessary. Students are held responsible for observing the requirements for the degree and the proper sequence of courses.

Students, except entering freshmen, are required to choose in May their electives for the year following. All requests for changes of elective courses should be sent in time to reach the College before September 15th.

REQUIREMENTS FOR THE M.A. AND M.S. DEGREES

Wellesley College offers graduate work leading to the degrees of Master of Arts, and Master of Science in Hygiene and Physical Education. The work required of a candidate is considered to be the equivalent of twelve hours of college work. In general, a candidate is required to work in one department. The program includes no fewer than two full courses of Grade III or their equivalents, and may include a thesis embodying the results of original research, or a report or reports based on independent work. A candidate for either degree is required to have a working knowledge of either French or German, to be tested by examination *at entrance*. Individual departments may require a second language. At least one year of graduate study is required of all candidates, but more time may be needed for the completion of the work. One year *in residence* is required of all candidates except graduates of Wellesley College who have done the work at some institution which does not grant a Master's degree to women.

Information regarding requirements for admission, theses, final examinations, etc., will be found in the Graduate Circular which will be sent on application to the Dean of Graduate Students.

COURSES OF INSTRUCTION

1934-35

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. Grade I courses are numbered 101, etc.; grade II courses 201, etc.; grade III courses 301, etc.

An asterisk (*) before the number of a course indicates that it is open to freshmen.

ART

<i>Professor:</i>	MYRTILLA AVERY, Ph. D. (Chairman), DIRECTOR OF THE ART MUSEUM.
<i>Lecturers:</i>	ELIZA NEWKIRK ROGERS, ¹ M.A. HARRIET BOYD HAWES, M.A., L.H.D.
<i>Associate Professors:</i>	SIRARPIE DER NERSESSIAN, LIC ÈS LET., DIPL. E.S., DIPL. E.H.E. WILLIAM ALEXANDER CAMPBELL, ² M.F.A.
<i>Assistant Professors:</i>	LAURINE MACK BONGIORNO, Ph. D. BERNARD CHAPMAN HEYL, ³ M.F.A. AGNES ANNE ABBOT.
<i>Instructors:</i>	HELEN HAMILTON WERTHESEN, B.DES. THOMAS BUCKLAND JEFFERY, DIPL. OXON., M.F.A.
<i>Assistants:</i>	ADELE BARRE ROBINSON, B.DES. MARIE MARCIA MAYFIELD, B.DES.
<i>Secretary of the Museum:</i>	CELIA HOWARD HERSEY, B.A.
<i>Cataloguer:</i>	MARGARET PATTERSON SURRÉ, M.A.
<i>Museum Assistants:</i>	ALICE CHURCHILL MOORE. MARY CATHERINE KEATING.

Some practice in the elements of drawing, painting, and modeling is required as part of all courses in art (except as otherwise specified) in order to develop observation and increase appreciation of æsthetic values. This work is planned for students of the history of art, but will be adapted also to those whose interests are primarily in the studio. A few courses without laboratory work are offered as study supplementary to work in other fields.

*101. INTRODUCTORY COURSE (1): ANCIENT, EARLY CHRISTIAN, AND ITALIAN ART.

This course, though planned to lay foundations for further study of the history of art and leading directly to course 205, is complete in itself, having for its theme classic art, its inheritances and its part in later European art. The laboratory work includes drawing and water-color. First semester: Greek art, its predecessors in Egypt, Mesopotamia and Ægean lands, and the art of pagan Rome. Second semester: Christian art in the East and in Italy.

Open to all students except those who have completed or are taking course 102. Three hours a week for a year.

MISS DER NERSESSIAN, MR. CAMPBELL, MRS. BONGIORNO,
MR. HEYL, MISS ABBOT, MRS. WERTHESEN,
" MRS. ROBINSON, MISS MAYFIELD.

¹ Absent on leave for the first semester.

² Absent on leave for the second semester.

³ Appointed for the second semester only.

205. INTRODUCTORY COURSE (2): MEDIÆVAL AND RENAISSANCE ART.

First semester: Mediæval art, with emphasis on Romanesque and Gothic architecture. Second semester: Renaissance and later art, with emphasis on painting. The laboratory work includes modeling and oil painting.

Open to students who have completed course 101 or an equivalent. Not open to students who have completed or are taking course 202. Three hours a week for a year.

MISS DER NERSESSIAN, MR. CAMPBELL, MR. HEYL,
MR. JEFFERY, MRS. WERTHESSEN, MISS SURRÉ.

*102. ANCIENT, EARLY CHRISTIAN, AND ITALIAN ART.

The ground covered in the history of art is in general the same as in course 101, but studies in the technique of drawing, modeling, and water-color are not included.

Open to all students except those who have completed or are taking course 101. This course may be offered as prerequisite for course 205 if supplemented by course 104 or an equivalent. Three hours a week for a year.

MISS DER NERSESSIAN, MR. JEFFERY, MRS. ROBINSON.

202. MEDIÆVAL, RENAISSANCE, AND MODERN ART.

A survey of architecture, sculpture, and painting with emphasis on mediæval architecture in France and Renaissance painting in Italy. Laboratory work is not required.

Open to students who have completed course 101 or 102 and to seniors without prerequisite. Not open to students who have completed or are taking course 203 or 205. This course may be offered as the equivalent of course 205 if supplemented by laboratory work approved by the department. Three hours a week for a year.

MRS. BONGIORNO, MISS SURRÉ.

106. ANCIENT CIVILIZATIONS OF EGYPT, HITHER ASIA, THE ÆGEAN ISLANDS, GREECE AND ROME.

An outline based on the monuments. Laboratory work is not included.

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

MRS. HAWES.

203. OUTLINE COURSE IN THE HISTORY OF ART.

This course follows the development of styles in architecture, sculpture, and painting, emphasizing Greek sculpture, French mediæval architecture, and Italian Renaissance painting. The purpose is to develop observation and æsthetic appreciation as well as to relate important monuments to their contemporary civilization. Laboratory work is not included.

Open to seniors except those who have completed or are taking course 101, 102, or 202. Three hours a week for a year.

MISS AVERY.

207. CHINESE AND JAPANESE ART.

A study of the art of China and Japan as it reflects the life and philosophy of the major periods. The laboratory work will include sketching in the Boston and Fogg Museums, and some practice in Japanese brush handling.

Open to juniors and seniors without prerequisite. Three hours a week for the first semester.

MR. CAMPBELL.

303. PAINTING OF THE ITALIAN RENAISSANCE.

A study of the rise and development of painting in Italy.

Open to juniors and seniors who have completed or are taking course 205, or an equivalent. Three hours a week for a year. MRS. BONGIORNO.

305. MODERN PAINTING.

Emphasis will be placed on the development of French painting from the 17th century to the present day, as a background for the study of contemporary movements. Practical experiments in composition, form, and color will be used as a basis for the study of modern characteristics.

Open by permission of the department to seniors who have completed course 303, 311, or 313. Three hours a week for the second semester. MRS. WERTHESSEN.

306. ENGRAVING AND ETCHING FROM THE RENAISSANCE TO THE PRESENT TIME. (Not offered in 1934-35.)

A study of the rise and development of engraving and etching including comparisons with the allied arts of woodcutting, mezzotinting, and lithographing, and a brief study of technical processes. Frequent visits to the Boston and Fogg museums will be required.

Open to juniors and seniors who have completed or are taking course 205 or 202. Three hours a week for the second semester. MRS. BONGIORNO.

307. STUDIES IN MEDIÆVAL ART.

Problems in style and iconography connected with the origins of Italian painting and sculpture. The Roman background and influences from the East and North as seen in the Exultet Rolls and in early frescoes and sculpture of Campania and the Abruzzi. Laboratory studies in the technique of tempera, fresco, and manuscript illumination.

Open to seniors who have completed course 303, 311, or 313. Three hours a week for the second semester. MISS AVERY, MISS ABBOT.

310. MEDIÆVAL, RENAISSANCE AND MODERN SCULPTURE.

A study of the blending of classic and barbarian inheritances in the Middle Ages, the emergence of the sculptural expression of the Renaissance, and analysis of some modern trends. The laboratory work includes modeling from life to develop a better understanding of the conventions of sculpture.

Open to students who have completed or are taking course 205 or, by permission, course 202. Three hours a week for a year. MISS AVERY, MRS. BONGIORNO.

311. PAINTING OF NORTHERN EUROPE.

The period of study extends from about 1300 to 1600 in France, Germany, and the Low Countries, and includes the seventeenth century in Flanders and Holland.

Open to juniors and seniors who have completed course 205 or an equivalent. Three hours a week for the first semester. MRS. BONGIORNO.

312. SPANISH ART.

A study of the architecture, sculpture, painting, and minor arts in Spain from the period of classical influence to the present day. Visits to the Boston and Fogg Museums alternate with laboratory work.

Open to juniors and seniors who have completed or are taking course 205 or 202; and, by permission, to juniors and seniors majoring in Spanish. Three hours a week for the second semester. MR. HEYL.

313. ART OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN WESTERN EUROPE. (Not offered in 1934-35.)

This course will include architecture, sculpture, and painting from the breakdown of the High Renaissance style to the beginning of the Neo-Classic movement.

Open to juniors and seniors who have completed course 205 or an equivalent. Three hours a week for the first semester. MR. HEYL.

314. BYZANTINE ART.

Mosaics and paintings of Byzantine churches from the sixth to the fourteenth century. Problems in style and iconography with opportunities for independent work and comparative studies with Italian art. Laboratory work is not included.

Open to juniors and seniors who have completed or are taking course 202 or 205. Three hours a week for the first semester. MISS DER NERSESSIAN.

315. GOSPEL ILLUSTRATION IN BYZANTINE MANUSCRIPTS. (Not offered in 1934-35.)

Origin and development of the various cycles. Iconographical comparisons with Armenian, Coptic, Syriac, and Slavonic manuscripts and with mediæval church decoration.

Open to juniors and seniors who have completed or are taking course 205 or 202. Three hours a week for the second semester. MISS DER NERSESSIAN.

316. MEDIÆVAL ARCHITECTURE. (Not offered in 1934-35.)

This course begins with a review of late classical architecture and traces its changes through the Early Christian period into the Byzantine style in the East and the Romanesque and Gothic in the West.

Open to juniors and seniors who have completed course 205 or an equivalent. Three hours a week for the first semester. MR. CAMPBELL.

318. ANCIENT ART. (Not offered in 1934-35.)

Egypt and Hither Asia; beginnings of formal ornament; recently discovered towns, temples, and tombs. Practical work is not required.

Open to juniors and seniors who have completed or are taking course 202 or 205; or to qualified juniors and seniors who have completed or are taking a course of grade II in Biblical History, Greek, Latin, or History. Three hours a week for the first semester. MRS. HAWES.

319. PREHELLENIC ART. (Not offered in 1934-35.)

Arts and crafts of Minoan Crete. The Age of Fable in the light of recent excavations. Methods of excavation. Origins of Greek Art. Practical work is not required.

Open to juniors and seniors under the same conditions as course 318. Three hours a week for the second semester. MRS. HAWES.

320. HELLENIC ART.

Greek architecture and sculpture from the sixth to the fourth century B.C. Athens in the Age of Pericles. Masterpieces of Greek sculpture in American museums. Laboratory work is not required.

Open to juniors and seniors under the same conditions as course 318. Three hours a week for the first semester.

MRS. HAWES.

321. HELLENISTIC AND ROMAN ART.

This course will follow the ramifications and syntheses of Classical Art from the conquest of Alexander to the conversion of Constantine. Painting and the minor arts will be studied. Laboratory work is not required.

Open to juniors and seniors under the same conditions as course 318. Three hours a week for the second semester.

MRS. HAWES.

323. STUDIES IN ECCLESIASTICAL ARCHITECTURE.

Development of church forms; study of structural types; æsthetic analysis of architectural forms and design.

Open to students who have completed course 205 or an equivalent. Three hours a week for the first semester.

MR. JEFFERY, MISS SURRE.

324. STUDIES IN DOMESTIC ARCHITECTURE.

A critical study of selected types of house design. This will include comparisons of one type in different countries, such as the half-timber house in England, France, and Germany; analysis of developments and interrelations, as in the Renaissance styles; and an investigation of the underlying principles of modern house building.

Open to students who have completed course 323. Three hours a week for the second semester.

MRS. ROGERS.

350. RESEARCH OR INDIVIDUAL STUDY.

Independent work on special problems under direction of one or more members of the department.

Open by permission of the department to juniors and seniors who have completed or are taking a course of grade III. Three hours a week for a semester or for a year.

STUDIO COURSES

103. STUDIO PRACTICE.

Modeling, drawing, sketching, and painting (oil and water color).

Open to sophomores, juniors, and seniors. Six periods of class instruction and three of studio practice counting three hours a week for a year. This course may count toward the degree after one full course in the History of Art has been completed.

MISS ABBOT, MRS. WERTHESEN, MRS. ROBINSON.

104. STUDIO PRACTICE.

Drawing, modeling, and water-color painting. This course is planned for students who are conscious of no talent for practical art. Its purpose is to develop informed appreciation through practical study of the elements of the artist's technique; and to train students of the history of art in quick sketching

and the use of color for recording observation. It corresponds in general to the laboratory work of course 101, and is advised for students who have taken course 102 and not course 103 and wish to major in art.

Open to sophomores, juniors, and seniors who have not taken course 101 or course 103. One period of class instruction and two of studio practice counting one hour a week for a year. This course may count toward the degree after one full course in the History of Art has been completed. MRS. ROBINSON.

204. STUDIO PRACTICE.

Design.

Open by permission of the department to juniors and seniors who have completed course 101, 103, or 104. Six periods of class instruction and three of studio practice counting three hours a week for the first semester. This course may count toward the degree after two full courses in the History of Art have been completed. MISS ABBOT.

208. COMPOSITION.

Principles of design related to various types of composition, in conjunction with direct study from the human model, still life, or landscape. Problems may take the form of book illustration, painting and mural decoration, decorative sculpture, etc.

Open to students who have completed course 204. Six periods of class instruction and three of studio practice counting three hours a week for the second semester. This course may count toward the degree after two full courses in the History of Art have been completed. MISS ABBOT.

DIRECTIONS FOR ELECTION

Courses 101 and 205, followed by grade III courses, form the usual sequence for a major in Art. Courses 102 and 202 supplemented by course 103 or an equivalent may be substituted for courses 101 and 205. A reading knowledge of French and German is important if a serious study of the History of Art is contemplated. Students of Italian art should, if possible, be able to read Italian.

GENERAL EXAMINATION

The general examination will be in two parts, two hours in the morning (with slides or photographs) and two hours in the afternoon.

It will be designed to test:

- (1) Knowledge of outstanding examples from earliest times to the present day.
- (2) Understanding of the meaning of terms commonly used in the study of art.
- (3) A general comprehension of the relations of the different styles and periods.
- (4) Ability (a) to make use of visual material in presenting a subject; (b) to perceive the value of evidence; (c) to coördinate material and present it logically.

In view of the varied aspects of the subject (architecture, sculpture, painting, and the minor arts) in the different periods, a twelve-hour major is advised.

MUSEUM TRAINING COURSE

This course is open to graduates only and is described in a separate circular.

ASTRONOMY

Professor: JOHN CHARLES DUNCAN, PH.D. (Chairman)
Instructor: HELEN WALTER DODSON, PH.D.
Assistant: ALICE ELEANOR TAYLOR, B.A.
Custodian: KATHARINE BULLARD DUNCAN.

*101. DESCRIPTIVE ASTRONOMY.

A general survey of the facts of Astronomy, of the methods by which they are obtained and of the theories that account for them; facts with which every educated person should be familiar in order to understand the astronomical allusions occurring in literature and to be alive to the beauty of the order that is about us.

Open to all undergraduates. Two lecture appointments, one two-period laboratory appointment, and an average of one hour of evening observations, with an additional lecture appointment at certain seasons, counting three hours a week for a year.

MR. DUNCAN, MISS DODSON, MISS TAYLOR.

102. DESCRIPTIVE ASTRONOMY. (Not offered in 1934-35.)

This course covers the same topics as Astronomy 101, and students of both courses attend the same lectures. No laboratory work is included in Astronomy 102, but in its place there is given a one-hour conference period for informal discussions and for occasional reports by students on assigned topics. Opportunity is given for constellation study and for observation with the telescopes.

Open to sophomores, juniors, and seniors. Astronomy 102 counts as a free elective but does not count toward fulfillment of the requirement for distribution in Group III. Three hours a week for a year.

MR. DUNCAN.

206. THE HISTORY OF ASTRONOMY.

Development of the science from ancient times to the present, with special emphasis on the period since Copernicus. Recitations, and reports by students.

Open to students who have completed course 101. Three hours a week for the second semester.

MR. DUNCAN.

207. PRACTICAL ASTRONOMY.

Practice in the use of astronomical instruments and methods, with emphasis on observation with the equatorial telescope and its attachments.

Open to students who have completed course 101 or 102. Three hours a week for the first semester. This course involves both daytime and evening work at the Observatory.

MR. DUNCAN, MISS DODSON.

208. PRACTICAL ASTRONOMY.

Practice in the use of astronomical instruments and methods, with emphasis on the transit instrument and the determination of time, longitude, and latitude.

Open to students who have completed course 101 or 102 and who have a knowledge of Trigonometry. Three hours a week for the second semester. This course involves both daytime and evening work at the Observatory.

MR. DUNCAN.

301. ASTROPHYSICS AND STELLAR ASTRONOMY.

Astronomical spectroscopy, photography, and photometry. The laws of radiation. Solar and sidereal physics. Stellar motions. The constitution of stars.

Open to students who have completed course 101 or 102, and Physics 301. Three hours a week for the second semester. When combined with Physics 301 it may be counted toward a major in Astronomy or Physics.
MISS DODSON.

302. DETERMINATION OF ORBITS.

Determination, from three observations, of the elliptic and parabolic orbits of bodies in the Solar System. Orbits of binary stars. Theory and practice.

Open to students who have completed course 101, and who have a knowledge of Calculus. This course may be counted toward a major in either Astronomy or Mathematics. Three hours a week for a year.
MR. DUNCAN.

303. CELESTIAL MECHANICS. (Not offered in 1934-35.)

The attraction of bodies of various forms under Newton's law of gravitation. The problems of two and of three bodies. Perturbations.

Open to students who have completed Differential and Integral Calculus. Three hours a week for a year.
MR. DUNCAN.

304. ASTRONOMICAL SEMINAR. (Not given in 1934-35.)

Open to graduate students. Ordinarily, three hours a week for a year.

MR. DUNCAN, MISS DODSON.

350. RESEARCH OR INDIVIDUAL STUDY.

Work under one or more members of the department on subjects to be determined by the interests and capabilities of the individual student. This course may be taken repeatedly.

Open by permission of the department to graduates and other advanced students. Two or three hours a week for a semester, or one to three hours for a year. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

All students who desire a knowledge of astronomy as a part of their general education should elect course 101. Students for whom the work of this course is insufficient but who do not wish to major in the department may well continue with course 206 or course 207 (or both), for which the course in Descriptive Astronomy is the only prerequisite. A nine-hour major should include Astronomy 101, 207, and 208, and either Astronomy 301 with Physics 301 or Astronomy 302. A twelve-hour major should include an additional course of grade III. Students majoring in Astronomy should take at least two courses of mathematics and one of physics.

GENERAL EXAMINATION

The general examination in Astronomy will be based upon the combination of courses which the student has taken as a major. A choice of questions will always be allowed. In addition to the written questions, there will be an opportunity for the student to show her familiarity with the use of astronomical instruments. No study during vacations will be required.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

<i>Professor:</i>	OLIVE DUTCHER DORGETT, ¹ M.A., B.D.
<i>Associate Professors:</i>	MURIEL STREIBERT CURTIS B.A., B.D. (Chairman) LOUISE PETTIBONE SMITH Ph.D. SEAL THOMPSON, M.A. GORDON BOIT WELLMAN, Th.D.
<i>Assistant Professors:</i>	KATY BOYD GEORGE, M.A. KATHARINE LOUISE McELROY, B.Litt. Oxon., B.D.
<i>Lecturer:</i>	JOSEPH GARABED HAROUTUNIAN, B.D. Ph.D.
<i>Assistant:</i>	ERMINIE GREENE HUNTRESS, B.A., B.D.

The requirement in Biblical History may be met in any of the following ways:

1. By courses 101-102 and 202 (or 205).
2. By course 104.
3. By course 210 (see prerequisite).

If 101-102 and 202 (or 205) are chosen, one and one-half hours may be counted as a free elective or, if another semester course is taken in the department, it may be counted toward distribution.

Students intending to major in the department are advised to choose the first alternative.

101, 102. THE DEVELOPMENT OF RELIGION IN THE OLD TESTAMENT.

It is the purpose of this course to offer studies in the development of theology, worship and ethics in the Old Testament. There will be included such historical study of Hebrew national life and such presentation of the literary problems connected with the Old Testament writings as are necessary to make intelligible the development of thought.

Open to sophomores. Course 101, three hours first semester, to be followed by course 102, three hours second semester. MISS SMITH.

104. STUDIES IN THE OLD AND NEW TESTAMENTS.

First Semester: Old Testament. Consideration of certain dominant ideas and forces of Hebrew Religion as preparation for the study of the life of Jesus. Some practice in the use of the Bible as source material.

Second Semester: New Testament. The life and teaching of Jesus, based on the first three gospels.

Required of sophomores except as indicated above. Three hours a week for a year.

MRS. CURTIS, MISS THOMPSON, MISS GEORGE,
MISS McELROY, MR. HAROUTUNIAN.

202. THE LIFE OF JESUS.

Aim: (1) To study the environment of Jesus in the government, institutions, manner of life, ideals, and literature of the Jewish people of his time. (2) To follow the unfolding of his life from the historical point of view. (3) To study his teachings: (a) in their historical connections as far as possible; (b) topically. (4) To become acquainted with the leading problems regarding the person and work of Christ, with different points of view and with the best literature on the subject.

Open to students who have completed courses 101 and 102. Three hours a week for a semester; offered in both semesters. MISS THOMPSON, MR. WELLMAN.

¹ Absent on leave.

203. ELEMENTARY HEBREW.

The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Reading of selections from the Old Testament. 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.

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

204. THE BEGINNINGS OF CHRISTIANITY.

It is the purpose of this course to study the rise and earliest development of the Christian religion. The New Testament will form the basis for this study, with emphasis upon the thought of Paul and of the Fourth Gospel. This course is designed to enable those students who have already studied the Life of Jesus to complete their study of the New Testament and to see the principles of Jesus at work as they came in contact with the life of the Græco-Roman world.

Open to students who have completed courses 104, 202, or 210. Three hours a week for a semester. Offered in both semesters. MISS THOMPSON, MR. WELLMAN.

205. GREEK TESTAMENT. LIFE OF CHRIST STUDIED FROM THE GREEK TEXT OF THE SYNOPTIC GOSPELS. (Not offered in 1934-35.)

This course deals with the same questions that are discussed in course 202, but the gospels are read in Greek instead of in English translation.

Open to students who have completed courses 101 and 102, and who present three units in Greek for admission or have completed Greek 101 in college. Three hours a week for the first semester. MISS McELROY.

206. GREEK TESTAMENT. TEXT STUDY OF OTHER NEW TESTAMENT BOOKS. (Not offered in 1934-35.)

The course will deal with the development of Paul's theology. Such topics as these will be discussed: Paul's theology as a Pharisee; his conception of God, sin, salvation; his experience of Christ; his later theology. Parts of the following books will be read in Greek: Acts, I and II Corinthians, Romans, Philippians, Galatians.

Open to students who have completed course 205. Three hours a week for the second semester. MISS McELROY.

207. HISTORY OF RELIGIONS.

The aim of this course is to study the history of religions from the earliest historical period through the leading religions of today. The approach is from the historical standpoint and includes a study of comparative developments and values. Readings, discussions, special topics, and short papers.

Open to juniors and seniors who have completed the required work in Biblical History. Three hours a week for a year. MR. WELLMAN.

208. SURVEY OF THE APPLICATION OF CHRISTIAN ETHICS TO SOCIAL PROBLEMS.

A study of the attempts which organized Christianity in America has made to apply the ethical principles of the Bible to our social and international relations. The "social gospel" movement, "Christian Socialism," Christian peace movements, missions, and other movements to promote better understanding between

ances will be studied historically and in the light of their European parallels. An attempt will be made to evaluate their work today in the light of Christian theology.

Open to students who have completed the required work in Biblical History and who have taken or are taking Economics 101 or History 102 or any other course in modern history. Three hours a week for the second semester. MISS McELROY.

209. THE RISE AND DECLINE OF THE HEBREW NATION FROM THE EARLY BEGINNINGS TO THE FALL OF JERUSALEM IN 586.

The purpose of the course is to trace processes that helped produce the nation and causes that contributed to its decline. The significance of outstanding personalities during the period will be considered. Emphasis will also be placed upon, first, learning to distinguish the varieties of source material preserved in each of the Old Testament books that deal with a given period and, second, using the same as sources of information.

Open to students who have completed course 104. Required of those who major in the department of Biblical History, and who have not taken courses 101-102. Three hours a week for the first semester. MISS SMITH.

210. SPECIAL BIBLICAL STUDIES FOR STUDENTS WITH A KNOWLEDGE OF GREEK.

This course is similar to course 104, offering a semester's study in the Old Testament and a semester of work based on the synoptic gospels, but the New Testament work is done in Greek.

Open to students who have completed four and one-half hours of Greek in college, or the equivalent. Students choosing this way of fulfilling the requirement in Biblical History may postpone the work until their junior year without special permission. Three hours a week for a year. MISS McELROY.

301. SEMINAR IN HISTORY OF RELIGION.

This study consists of readings and discussions in the history of religions. Each student will be expected to investigate and study some particular historical problem. Emphasis will be laid upon the historical method of study as well as upon an understanding of the characteristic development of the religion under attention. The course is given in one weekly appointment, possibly running into extra schedule hours.

Open to approved seniors who have completed any grade II course in the department except 207. Three hours a week for a year. MR. WELLMAN.

302. INTERPRETATIONS OF CHRISTIANITY.

The aim of this course is to study the varying conceptions of the essentials of Christianity as formulated in some of the most important periods of the history of the church; to consider these conceptions in their relations to the religion of the New Testament and to the religious thought of the present day. This course will be given in one weekly appointment running into extra schedule hours.

Open to approved seniors who have completed course 204 or 206. Three hours a week for a year. MISS SMITH.

303. SECOND YEAR HEBREW.

Open to students who have completed course 203. Three hours a week for a year.
MISS SMITH.

305. TRENDS IN CONTEMPORARY CHRISTIANITY.

Studies of such developments as Anglo-Catholicism, fundamentalism and modernism, the crisis theology, humanism, the social emphasis and the implications for religion of modern scientific concepts.

Open to students who have completed or are taking course 204 or 206. Three hours a week for a semester. Offered in both semesters. MR. HAROUTUNIAN.

For additional courses which may count toward a major in Biblical History, see: Education 302; Latin 307.

The attention of students is called to the course listed under Group Leadership as being of practical value to those especially interested in the work of this department.

DIRECTIONS FOR ELECTION

If a student is intending to major in the department, it is recommended that she begin with courses 101-102. If she begins with course 104, and then decides to major in Biblical History, course 209 is required to complete the Old Testament work. Course 302 is open only to those who have had course 204 or 206.

SUGGESTED NINE OR TWELVE HOUR SEQUENCES

(The courses in Hebrew and Latin 307 have not been included in the sequences given, but may be substituted in appropriate places.)

101-102, 202-204 (or 205-206), 301 or 302 or both 301 and 302.

104, 204, 209, 301 or 302, or both 301 and 302.

104, 204, 208, 207.

104, 204, 305, 301 or 302, or both 301 and 302.

GENERAL EXAMINATION

Students will be expected to show a knowledge of the Bible as a whole, especially from the point of view of it as a record of religious thought and development. In addition they will be expected: (1) to trace the religious ideas thus derived in the later history of the Christian church, in its varied forms of personal experience and life and its differing types of organization; (2) to be familiar with the facts concerning the origin and development of primitive religion and with the fundamental principles of other religious faiths outside of Judaism and Christianity. Students who offer 303 (Hebrew) will be expected in place of (1) or (2) above to present with comparative accuracy the forms of thought appearing in the Old Testament and to show some appreciation of the relationship existing between the development of religious ideas and the linguistic vehicle by which they are conveyed.

Such questions of minute detail concerning Biblical history, biography and literature as might be included in term examinations will not appear, but it is to be expected that the student will show as basic to her understanding of religious developments:

1. A broad knowledge of the outlines of the political history involved.
2. A grasp of the principles, procedure and results of historical and literary criticism.
3. Such a knowledge of the content of the Bible as will make it possible for her to illustrate concretely her general statements.

BOTANY

<i>Professors:</i>	HOWARD EDWARD PULLING, Ph.D. LAETITIA MORRIS SNOW, Ph.D. (Chairman) ALICE MARIA OTTLEY, Ph.D. CURATOR OF HERBARIUM.
<i>Associate Professors:</i>	MARY CAMPBELL BLISS, Ph.D. HELEN ISABEL DAVIS, ¹ B.A. DIRECTOR OF BOTANIC GARDENS.
<i>Assistant Professors:</i>	GRACE ELIZABETH HOWARD, Ph.D. ASSISTANT CURATOR OF HERBARIUM. RUTH HUTCHINSON LINDSAY, Ph.D.
<i>Instructors:</i>	HELEN STILLWELL THOMAS, M.A. JULIA WILLIAMS JAMES, M.A.
<i>Assistants:</i>	BARBARA HUNT GREEN, M.A. HELEN METZGER SPENCE, B.A.
<i>Laboratory Assistant:</i>	HELEN WINIFRED PARKER, B.A.
<i>Secretary and Custodian:</i>	MARION FRANCES FINLAY, B.A.

Freshmen presenting a satisfactory year course in Botany may apply for permission to enter course 202, 204, 205, or 206.

*101. GENERAL BOTANY.

The chief objectives of this course are: to introduce students to the study of the principles upon which all life depends; to show them how plants play a part in the health, pleasure, and profit of man; to acquaint them with the origins and characteristics of the great groups of plants, which man everywhere uses or contends with; to afford them opportunity to become acquainted with the cultivation of plants in-doors and out-of-doors; and to help them learn how to obtain answers to their own questions by individual experimentation.

Open to all undergraduates. Six periods a week, in general two of lecture and recitation and four of laboratory or greenhouse or field, counting three hours a week for a year.

MISS OTTLEY, MISS BLISS, MISS HOWARD,
MISS LINDSAY, MISS THOMAS.

202. PLANT BIOLOGY.

This course deals with the organization of plants and the effects of this organization on the relations of the individual with its environment. The discussion of these relations is based on the student's intellectual interests and experience, augmented by laboratory and greenhouse experiment, to aid her in learning to correlate knowledge and in securing a broad foundation for further study of biological principles and applications.

Open to students who have completed course 101 or its equivalent and to juniors and seniors without prerequisite. Six periods a week, three of lecture and three of discussion and laboratory, counting three hours a week for a semester; offered in both semesters.

MR. PULLING.

¹ Absent on leave.

204. CULTIVATED PLANTS.

A study of garden plants—their identification and ornamental value, their culture requirements, methods of propagation, and the means of protecting them against pests and diseases. Lectures and supplementary reading summarize the scientific principles underlying these subjects; field trips and laboratory work in the gardens and greenhouses supply evidence of the way in which some of these principles work out in actual practice. This course is intended to furnish a background for work in home gardens and also to stimulate an interest in the educational and social value of gardening.

Open to students who have completed course 101 or have had other preparation satisfactory to the department. Six periods a week, in general two of lecture and four of discussion, laboratory, greenhouse or field, counting three hours a week for a semester; offered in both semesters.

MISS JAMES.

205. BACTERIA IN RELATION TO DAILY LIFE.

A brief survey of the field of microbiology. Emphasis is placed upon the study of bacteria, molds, and yeasts in the home, with special reference to the preservation of foods and to general household sanitation. A less detailed study is made of the larger problems of micro-organisms in relation to agriculture and certain other industries, and to disease and public health. There will be one visit to a Board of Health which may require half a day.

Open to students who have completed one year of either Botany, Chemistry or Zoölogy. Three periods a week, in general one of lecture and discussion, and two of laboratory or preparation, counting one hour a week for a year; no outside work is required.

MISS SNOW.

206. THE STRUCTURE OF PLANTS.

In this course a comparative study is made of the structure of ancient and present day types of vascular plants from the standpoint of evolution. This study includes the origin and differentiation of the structural elements of the plant body and micro-chemical tests of the cell-wall membranes of young and of mature cells. Practice is given in preparing woody tissues for sectioning and in making permanent microscopical mounts.

Open to students who have completed course 101 or its equivalent, and to juniors and seniors without prerequisite. Six periods a week, in general two of lecture and recitation and four of laboratory, counting three hours a week for a semester; offered in both semesters.

MISS BLISS.

302. COMPARATIVE MORPHOLOGY OF THE FERNS, GYMNOSPERMS, AND ANGIOSPERMS. (Not offered in 1934-35.)

This course considers the origin, development, and structure of vascular plants from the standpoint of evolution. Special attention is given to tracing the steps in the development of vegetative and reproductive organs, and to a consideration of the homologies of sporogenous, reproductive, and embryological parts. Students will become acquainted with the technique of plant histology and embryology by preparing a considerable proportion of the microscopic slides used in the classroom. The course aims to give that broad grasp of the progressive development of plant life on the earth essential to the highest efficiency

in teaching botany and to give adequate equipment for independent research in the comparative morphology of plants.

Open to juniors and seniors who have completed three year-hours of grade II in Botany. Six periods a week, in general three of lecture and discussion and three of laboratory, counting three hours a week for the first semester.

304. PATHOLOGY OF THE HIGHER PLANTS. (Not offered in 1934-35.)

A general course on the diseases of plants. The structure, pathological processes and effects of representative fungi on plants of either economic or ornamental value are studied. A short time is devoted to a study of the methods used in cultivating fungi. Modern methods of combating plant diseases are briefly considered from the standpoint of the principles that underlie them. One or more trips are taken for observation of diseased plants in the field.

Open to juniors and seniors who have completed three year-hours of grade II in Botany. Students who have had course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, in general two of lecture and discussion and four of laboratory and field, counting three hours a week for the first semester.

MISS HOWARD.

305. ECOLOGY. (Not offered in 1934-35.)

A study of plants in their natural environment. The purpose of the study is to determine why certain plants are found in meadow, forest, swamp, etc., and how they are fitted for their special places in nature. Wherever possible the history of the succession of plants occupying a given area and the probable future changes in the flora of the area will be determined.

Open to juniors and seniors who have completed three year-hours of grade II in Botany. Students who have had course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and discussion and four of field and laboratory, counting three hours a week for the second semester.

MISS OTTLEY.

306. PHYSIOLOGY.

First the nature and behavior of living protoplasm, and the fundamental processes that determine the behavior of organisms are studied in the laboratory. Then, by laboratory and greenhouse experiments with many kinds of plants, the student is shown how these principles, which form the foundation of our understanding of growth and development, can be applied in further study and in controlling the behavior of individual plants and groups of plants.

Open to juniors and seniors who have completed three year-hours of grade II in Botany and who have completed or are taking a year of either Chemistry or Physics. Students who have completed course 101 or its equivalent may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and four of discussion and laboratory, counting three hours a week for a year.

MR. PULLING.

307. CYTOLOGY AND HEREDITY.

Studies in the structure of the cell; the phenomena of cell division; the constitution of the reproductive cells with special reference to the theories of heredity and evolution. The classroom study of the problems of the transmission of

characters from parent to offspring is supplemented by experimental studies, conducted by the students in the greenhouse, in the inheritance of color and other characters in *Petunia*. At the beginning of the year each student is assigned a practical problem in plant breeding as a basis for the study of the behavior of pure lines in hybridization and the origin and transmission of characters.

Open to seniors, and by permission of the department to juniors, who have completed three year-hours of grade II in Botany. Six periods a week, in general two of lecture and discussion and four of laboratory or greenhouse, counting three hours a week for a year.
MISS LINDSAY.

308. GENERAL BACTERIOLOGY.

The work of the first semester is designed to give the student a knowledge of the morphology and activities of bacteria. Emphasis is laid upon the principles underlying fermentation, preservation of foods, methods of sterilization, anti-septics, soil fertility, etc. The student becomes familiar with methods of making media, plating, making of transfers, staining, etc. This technique is used in the study of such problems as milk and water supplies, sewage disposal and disease. There will be three or four half day trips to observe the practical application of the principles considered in class.

Open to juniors and seniors who have completed one year of Chemistry and either one year of Botany or Zoölogy, or a second year of Chemistry. Six periods a week, in general two of lecture and discussion and four of laboratory, counting three hours a week for a year.
MISS SNOW.

309. LANDSCAPE GARDENING. (Not offered in 1934-35.)

This course continues the study of ornamental plants begun in course 204, placing special emphasis upon their use in landscape gardening. The fundamental principles of design, and the historical development of garden design are studied to furnish the background for an intelligent appreciation of present-day landscape architecture as a fine art. The laboratory practice gives training in developing landscape plans for small estates.

Open to seniors who have completed three year-hours of grade II in Botany, including course 204. By special permission course 204 may be taken in conjunction with course 309. Six periods a week, in general two of lecture and four of discussion and practice in drafting-room and field, counting three hours a week for the first semester.
MISS DAVIS.

310. LANDSCAPE DESIGN. (Not offered in 1934-35.)

This course continues the study of the principles of design with landscape materials introduced in course 309, and also includes a summary of the fundamentals of landscape construction. The problems of city planning are discussed, from the standpoint of aesthetic and recreational requirements. Trips are taken as often as possible for observation and study of actual examples of the art.

Open to students who have completed course 309. Six periods a week, in general two of lecture and four of discussion and laboratory, counting three hours a week for the second semester.
MISS DAVIS.

311. WORLD FLORAS.

This course attempts to give the student familiarity with individual species as members of the larger plant groups, to enable her to visualize the vegetation of the earth and to understand the conditions that have been operative in producing the characteristic floras of today. This course should add interest to travel and make more evident the influence of climate and plants on human progress. Before the close of the first semester each student selects, in line with her major interest, a group or groups of plants for study during the remainder of the year. For example, she would choose certain group combinations for Landscape Gardening, others for Pathology, still others for general culture.

Open to students who have taken course 101 or its equivalent, and have completed or are taking three year-hours of grade 11 in Botany; by permission of the department, to seniors who have completed course 101. Six periods a week, in general one of lecture, five of field, laboratory, or greenhouse study, counting three hours a week for a year.

MISS OTTLEY, MISS HOWARD.

320. THEORETICAL PHYSIOLOGY. (Not given in 1934-35.)

The content of this course in any year depends upon the needs and interests of the students that elect it. The reading and discussions are concerned with the abstract and logical aspects of the subject; the methods by which research problems should be analyzed, the significance of explicit and implicit assumptions, the treatment of data, physiology as a field for deductive reasoning, etc.

Open to graduate students only. Three hours a week for a year. MR. PULLING.

322. BOTANICAL SEMINARS.

The work in the seminars listed below varies from year to year, depending on the botanical background of each student and on her plan for further study. A field of botanical science is scrutinized from the standpoints of modern achievement, method of investigation, and the theories and reasoning involved in reaching the present-day conclusions: (a) Anatomy; (b) Bacteriology; (c) Comparative Morphology; (d) Cytology; (e) Ecology; (f) Genetics; (g) Geographical Distribution; (h) History of Botany; (i) Pathology; (j) Physiology; (k) Plant Materials; (l) Taxonomy.

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

THE TEACHING STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

The study will be under the direction of an instructor in the field chosen and may combine reading and investigation in the laboratory or may be restricted to reading. The nature of the work will depend upon whether the student is a senior or a graduate student, and upon the field of interest.

Open to graduate students and, by permission of the department, to approved seniors. One to three hours a week for a year or three hours for a semester. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS TO STUDENTS

The major is based on course 101 or on two of the following courses: 202, 204, 206.

Course 308 may form a part of a Botany major that includes a year of grade III other than, or in addition to, courses 309-310 or 350.

Courses 309-310 may form a part of a Botany major that includes a year of grade III other than, or in addition to, course 308.

Course 308 in the Department of Physics or course 306 in the Department of Geology may form part of a major in Botany.

Students interested in Public Health should include course 308 in their program.

Those students who are planning to continue their botanical work after graduation either along lines of teaching, research, agricultural and experiment station work, or various kinds of technical laboratory work, landscape gardening, horticulture, forestry, etc., should consult with the department regarding the appropriate sequence of courses.

GENERAL EXAMINATION

All members of the staff are glad to discuss methods of review with students and to suggest which of the references already assigned in the regular class work would be most valuable for further study in securing a surer grasp of the subject and a sense of the fundamental unity which underlies the various aspects of the plant sciences. No summer reading is required.

A sufficient number of questions will be given to provide a choice for every student, no matter what combination of courses she has made in her major.

Any group of courses accepted as a major in the department is considered equal to any other group, of the same number of hours, as preparation for the general examination. Students including courses 308 or 309 and 310 in their major will find it valuable to have as broad a background as possible in pure botany.

CHEMISTRY

<i>Professor:</i>	HELEN SOMERSBY FRENCH, Ph.D.
<i>Associate Professors:</i>	MARY AMERMAN GRIGGS, Ph.D. (Chairman) RUTH JOHNSTIN ² , Ph.D.
<i>Assistant Professor:</i>	HELEN THAYER JONES, Ph.D.
<i>Instructor:</i>	DOROTHY JANE WOODLAND, Ph.D.
<i>Laboratory Assistants:</i>	DOROTHY JANE PERKINS, B.A. AUDRA JULIA ALBRECHT, B.A. MARGUERITE NAPS, B.A. KATHRYN SUE POTTER, B.A.
<i>Custodian:</i>	EMILY MAY HOPKINS, B.S.

*101. ELEMENTARY CHEMISTRY. LECTURES AND LABORATORY WORK.

This course is for beginners in chemistry and is planned to give the fundamental laws and theories of chemistry, in connection with the study of the non-metals and a brief survey of the metals. Outside reading and reports thereon bring the student some knowledge of the applications of chemistry.

Open to students who do not present chemistry for admission. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.

MISS JOHNSTIN, MISS JONES, MISS NAPS, MISS ALBRECHT.

²Absent on leave for the second semester.

***102. GENERAL CHEMISTRY.**

This course is intended for those students who have offered chemistry for entrance. It makes use of the preparatory work in chemistry as a basis for the study of chemical theories, and aims to prepare students for the grade II courses in the department.

Open to students who have completed the admission requirement or its equivalent, and who are electing course 201 or 206. Incoming freshmen may apply to the Dean of Freshmen, and other students to the chairman of the department, for an examination for exemption from this course and admission to course 201. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the first semester.

MISS JONES, MISS WOODLAND, MISS NAPS, MISS POTTER.

***201. QUALITATIVE ANALYSIS.**

A system of analysis for the detection of the common metals and acid radicals with the application of theoretical principles to the reactions involved. The laboratory work includes practice in the solution and analysis of substances unknown to the student.

Open to students who have completed course 101 or 102. Two periods of lecture and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters.

MISS GRIGGS, MISS WOODLAND, MISS POTTER.

202. QUANTITATIVE ANALYSIS.

This course is designed to give training in gravimetric and volumetric analysis. The theories discussed in course 201 are applied to the work of the laboratory, and problems related to the work are included in the class discussions.

Open to students who have completed course 201. One period of lecture and six periods of laboratory a week, counting three hours a week for a semester. Offered in both semesters.

MISS GRIGGS, MISS WOODLAND.

206. INORGANIC CHEMISTRY. (Not offered in 1934-35.)

A continuation of course 102, with emphasis on the metals. The laboratory work will consist in the main of inorganic preparations.

Open to students who have completed course 102. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for the second semester.

301. ORGANIC CHEMISTRY.

A systematic study of both the aliphatic and aromatic series. The laboratory work introduces the student to the fundamental methods of preparation and purification of typical organic compounds.

Open to students who have completed course 201 and, by special permission, to students who have completed course 101. Three periods of lecture and recitation and one three-period laboratory appointment a week, counting three hours a week for a year.

MISS FRENCH, MISS JONES, MISS PERKINS.

302.† ADVANCED LABORATORY COURSE IN ORGANIC CHEMISTRY.

This course includes a scheme of systematic qualitative organic analysis. The last half of the semester will be devoted by each student to an individual problem in the laboratory, involving organic preparations, and leading to a final paper.

Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and recitation, six to seven periods of laboratory a week, counting three hours a week for the second semester.
MISS FRENCH.

303. QUANTITATIVE ANALYSIS.

This course offers an opportunity for the study of some of the following more advanced methods of quantitative analysis: colorimetric and electrometric determination of hydrogen ion, including acid-base and oxidation-reduction titrations, conductimetric titrations, electrodeposition of metals, and the complete quantitative analysis of some more complex inorganic substances.

Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and recitation and six periods of laboratory a week, counting three hours a week for the second semester.
MISS GRIGGS.

304. CHEMISTRY OF FOOD AND NUTRITION.

A study of the composition of common food materials and their function in nutrition. Laboratory practice is given in standard methods of analysis of foods including grain products, carbohydrates, fats and oils, milk and milk products.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. General Physiology (Zoölogy 308) is recommended as a parallel course. Two periods of lecture and recitation and five of laboratory a week, counting three hours a week for the first semester.
MISS JOHNSTIN.

305. PHYSICAL CHEMISTRY.

This course traces historically, summarizes and applies to practical problems, the laws of matter in its various states of aggregation (including colloidal), and also the laws governing solutions, chemical equilibrium, and reaction velocity.

Open to juniors and seniors who have completed course 202, have completed or are taking course 301, and have completed or are taking a year of college Physics. Three periods of lecture and discussion and one three-period laboratory appointment a week, counting three hours a week for the first semester.

MISS FRENCH, MISS WOODLAND.

306. THEORETICAL CHEMISTRY.

This course discusses the modern theories of matter and energy, including especially atomic and molecular structure, and theories of valency. It will also include at least two of the following fields of chemistry: electrochemistry, thermochemistry, and photochemistry.

Open to juniors and seniors who have completed course 305. Three periods of lecture and discussion a week, with approximately one three-period laboratory appointment each alternate week, counting three hours a week for the second semester.

MISS FRENCH, MISS WOODLAND.

† Courses 302 and 310 will usually be offered in alternate years.

307. ADVANCED INORGANIC CHEMISTRY.

A comprehensive survey of the different classes of inorganic substances and the modern theoretical interpretation of their interactions.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. Three hours a week for the second semester.

MISS JONES.

308. QUALITATIVE ANALYSIS. (Not given in 1934-35.)

A continuation of course 201, dealing with the more difficult problems of qualitative analysis. The course includes the systematic detection of acid radicals, and the complete analysis of unknown substances.

Open to juniors and seniors who have completed courses 202 and 301. One period of lecture and six of laboratory a week, counting three hours a week for the first semester.

MISS GRIGGS.

309. PHYSIOLOGICAL CHEMISTRY.

A study of the chemistry of the more important organs and tissues of the body and of the chemical changes involved in the digestion, assimilation and elimination of food constituents. The laboratory work includes a study of the methods of analysis generally employed in hospital practice.

Open to juniors and seniors who have completed course 202 and who have completed or are taking course 301. General Physiology (Zoölogy 308) is recommended as a parallel course. Two periods of lecture and recitation and five of laboratory a week, counting three hours a week for the second semester.

MISS JOHNSTIN.

310.† QUANTITATIVE ORGANIC ANALYSIS INCLUDING MICROANALYSIS. (Not offered in 1934-35.)

This course includes the classical methods of Liebig and of Dumas for the quantitative determination of carbon, hydrogen, and nitrogen in organic compounds; and also the newer methods of elementary micro combustions.

Open to juniors and seniors who have completed courses 202 and 301. Two periods of lecture and recitation, six to seven periods of laboratory a week, counting three hours a week for the second semester.

MISS FRENCH.

320. SEMINAR. (Not given in 1934-35.)

Newer developments in chemistry will be considered with the historical background of each. This course usually meets every other week for two hours during the evening.

Open to graduate students and to seniors approved by the department. One hour a week for a year.

THE TEACHING STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

Each student electing this work will undertake an individual problem under the direction of the instructor in the field chosen. The work will include both laboratory work and reading.

Open to graduate students and, by permission of the department, to undergraduates who have completed at least nine hours in the department. Three hours a week for a semester or for a year.

† Courses 302 and 310 will usually be offered in alternate years.

DIRECTIONS FOR ELECTIONS

For any major in Chemistry: Courses 101 or 102, 201, 202, and 301 are essential. Any other courses in the department may be added to these to complete the twelve-hour major.

It is advisable that all students majoring in Chemistry should complete one year of college Physics, and acquire a reading knowledge of French and German before the senior year.

Students intending to go on to graduate work in Chemistry should complete, in addition, at least one year of college Mathematics, with some work in Calculus.

Pre-medical students are referred to the requirements as given under electives, page 45.

For Hospital and Public Health work, students are advised to elect courses 101 or 102, 201, 202, 301, 304 and 309.

Seniors electing Chemistry 304 and 309 may upon the recommendation of this department obtain special permission from the Zoölogy Department to take General Physiology (Zoölogy 308) without prerequisite.

The department would be glad to advise students intending to major in Chemistry, with regard to related courses.

Students intending to use their Chemistry after graduation from Wellesley College will be recommended by the department only if they have completed at least nine hours of Chemistry.

GENERAL EXAMINATION

The aim of the general examination in Chemistry will be to test the student's knowledge of the fundamental principles and important facts of Chemistry and her ability to correlate and apply this material.

ECONOMICS AND SOCIOLOGY

Professors: ELIZABETH DONNAN, B.A. (Chairman)

HENRY RAYMOND MUSSEY, PH.D.

LELAND HAMILTON JENKS, PH.D.

Assistant Professors: LAWRENCE SMITH, M.A.

LUCY WINSOR KILLOUGH, PH.D.

MARY BOSWORTH TREUDLEY, PH.D.

Instructor: CHARLES FREDERICK WILSON, M.A.

Assistant: HELEN VIRGINIA MAXWELL, B.A.

*101. ECONOMIC PRINCIPLES AND PROBLEMS.

This course seeks to contribute to the understanding of contemporary life through a study of the economic order on which our present social and political system is built. It studies the growth of machine technique, corporate organization, mass production, and international trade, with the machinery of money and banking. It analyzes the price system under competition and monopoly. It considers briefly the causes and results of existing inequalities in the distribution of wealth, living standards as related to income, trade unions, trusts, unemployment, social legislation, and other proposed methods of economic reform. One field trip will be required.

Open to sophomores, juniors, and seniors, and to freshmen by permission of the Dean of Freshmen. This course is prerequisite to later election. Three hours a week for a year.

MISS DONNAN, MR. MUSSEY, MR. SMITH,
MRS. KILLOUGH, MISS TREUDLEY, MR. WILSON.

102. SOCIAL ORGANIZATION.

This course is an introduction to the study of society from the cultural standpoint. It embraces an examination of fundamental factors in social behavior, and a survey of the main features and trends of contemporary social organization.

Open to sophomores, juniors, and seniors. Three hours a week for a semester; offered in both semesters. This course, since it covers but one semester, may not be used for distribution without course 101.

MR. JENKS, MISS TREUDLEY.

202. HISTORY OF SOCIAL INSTITUTIONS.

This course is devoted to the study of structure and change in civilization. During the first semester attention is given to primitive culture and to the historical development of such representative institutions as law, business enterprise, the church, and the family. In the second semester attention will be centered upon civilizations as wholes, their tendency to rise and decay, upon problems of culture contact such as are involved in imperialism, upon the nature and types of revolutions, and the problem of progress.

Open to juniors and seniors who have completed or are taking courses 101 and 102 or 101, 204 and 209, and to seniors majoring in History who have completed or are taking 101 or 102. Three hours a week for a year.

MR. JENKS.

204. ECONOMIC HISTORY OF THE UNITED STATES.

A study of our national development in its economic and social aspects, with special emphasis upon the struggle between agrarian and business interests, the growth of business combinations, and the development of government control of business.

Open to students who have completed or are taking course 101. Three hours a week for the second semester.

MISS DONNAN.

209. ECONOMIC HISTORY OF ENGLAND.

This course attempts a comparison of economic and social life in England before and after the Industrial Revolution. Such topics as the manifestations of capitalism in the seventeenth and early eighteenth centuries, the effect of capitalism on the work of women, the struggle between landed interests and rising manufacturers over factory acts and corn laws, the vicissitudes of poor law legislation, and the increase in the concern of the government for the welfare of the individual are considered.

Open to students who have completed or are taking course 101. Three hours a week for the first semester.

MISS DONNAN.

210. FINANCIAL ORGANIZATION OF SOCIETY.

This course deals with money, credit, and prices. It emphasizes the commercial bank and the development of our banking system, culminating in the Federal Reserve system. Investment credit is studied with respect to the investment bank, corporation securities, the corporation as a financial institution, and the stock exchange. The business cycle is dealt with both historically and theoretically, and its economic and social consequences are considered. Current financial topics are studied.

Open to students who have completed course 101. Three hours a week for a year.
MR. SMITH.

301. THEORIES OF SOCIAL RECONSTRUCTION. (Not offered in 1934-35.)

A study of theories for the reconstruction of society, with particular emphasis on the ideas that have influenced modern labor movements. After a brief survey of the Utopias, study is made of Marxian Socialism, of Fabianism and the British Labor Party, of coöperation, and of the single tax, anarchism, syndicalism, communism, and fascism. The origin of these theories and of the contrasted individualistic ideas is investigated, as well as their influence on labor movements and on contemporary political life.

Open to juniors and seniors who have completed course 308. Three hours a week for the second semester.
MR. MUSSEY.

303. SOCIAL WELFARE.

A study of the historical development of philanthropy and of present problems and practices in the field of social work.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the second semester.

MISS TREUDLEY.

304. THE PREVENTION OF POVERTY.

A study of standards of living and their maintenance through the development of social insurance, social services and minimum wage legislation, and of changes in the theory and practice of public relief.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester.

MISS TREUDLEY.

305. SOCIAL REGULATION OF BUSINESS.

Problems of regulation, especially in respect to capitalization and price control, arising out of the development of railroads, public utilities, and industrial trusts in the United States; the aims, principles, and practice of public regulation of such industries; the theory and limits of "economic planning" as applied to them.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the second semester. MR. MUSSEY.

308. MODERN LABOR PROBLEMS.

A study of the worker in the past and present-day industrial society, with special reference to economic, legal and political conditions in Great Britain and the United States. Trade unionism, coöperation and labor politics receive attention, and the legal position of the worker is examined.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester. MR. MUSSEY.

310. PUBLIC FINANCE.

A study of the principles and the practical problems of public expenditure, borrowing, and taxation, considering especially their relations to industry and

the way people live. Expenditures: their dependence on war and the modern increase of government functions; their effects on the life of the citizens. Public debts: origin; effects on production, trade, finance, and international relations; the present intergovernmental debts. Taxation: theory and incidence; the chief taxes laid by cities, states, and the federal government, especially income and inheritance taxes.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester. MRS. KILLOUGH.

311. SOCIAL AND ECONOMIC INVESTIGATION.

A study of statistical methods as used in economics and sociology. The technique of a statistical investigation is examined in detail with emphasis on methods of classification and presentation. Frequency distributions and simple correlation are studied and applied.

Open to juniors and seniors who have completed or are taking a full course of grade II in the department. Three periods of lecture and recitation and three hours of laboratory a week, counting three hours a week for the first semester.

MRS. KILLOUGH.

312. SOCIAL AND ECONOMIC INVESTIGATION.

The study of economic and social statistics with emphasis on the analysis of time series. Some time is spent on probability theory and multiple and partial correlation. Consideration is given to the place of the quantitative method in the social sciences.

Open to juniors and seniors who have completed course 311. Three periods of lecture and recitation and three hours of laboratory a week, counting three hours a week for the second semester.

MRS. KILLOUGH.

313. SEMINAR. SELECTED TOPICS IN THE HISTORY OF AMERICAN ECONOMIC AND SOCIAL MOVEMENTS AND THEORIES.

Open to graduates and approved seniors who are taking a major in the department. Three hours a week for the second semester.

MR. MUSSEY.

314. INTERNATIONAL TRADE AND INVESTMENT.

A study in modern political economy, examining the economic position of the United States in relation to other countries. It deals with the theory of international trade as modified by international movements of capital; the free trade movement and its results; the origins, methods, and economic results of modern protectionism, imperialism, and colonial policies.

Open to juniors and seniors who have completed or are taking course 210. Three hours a week for the second semester.

MRS. KILLOUGH.

316. HISTORY OF SOCIAL THOUGHT.

This course deals with outstanding trends of thought from the Greeks to modern times, as reflected in the writings of such social and political philosophers as Plato, Aristotle, Augustine, Machiavelli, Locke, and Rousseau.

Open to seniors who have completed or are taking courses 101, and 202 or 209-204, in the department, or Political Science 104 and any other course of grade II in History or Political Science. Three hours a week for the first semester. MR. JENKS.

317. HISTORY OF ECONOMIC THOUGHT.

A study of the development of economic thought with special emphasis on the relation between economic conditions and economic thinking in the nineteenth century. After a brief review of Greek, Roman, and mediæval thought and some attention to the doctrines of the mercantilists and the physiocrats, the work of Adam Smith, Ricardo, Malthus, J. S. Mill, and the Austrians, is examined with more detail, and some consideration is given to the writings of nineteenth-century American economists.

Open to seniors who have completed a full course of grade II in the department. Three hours a week for the first semester. MISS DONNAN.

318. MODERN ECONOMIC THOUGHT.

A study of recent economic doctrine with special emphasis on those aspects which diverge from nineteenth-century theory, and some attention to the relation of economic science to other social sciences.

Open to seniors who have completed course 317. Three hours a week for the second semester. MISS DONNAN.

319. MODERN SOCIAL THOUGHT.

A study of the principal trends of social and political thought manifested since the revolutionary period, especially in Great Britain and the United States.

Open to seniors who have completed or are taking courses 101, and 202 or 209-204, in the department, or Political Science 104 and any other course of grade II in History or Political Science. Three hours a week for the second semester. MR. JENKS.

320. POPULATION PROBLEMS. (Not offered in 1934-35.)

A study of population theories beginning with Malthus, and of practical problems arising out of the increase, the distribution, and the movement of population.

Open to juniors and seniors who have completed or are taking any course of grade II in the department. Three hours a week for the first semester. MISS TREUDLEY.

350. RESEARCH OR INDIVIDUAL STUDY.

To a limited number of advanced students wishing to do individual work outside of regular courses the department is prepared to offer a course of directed reading, to be tested by examination.

Students desiring to register for such a course must secure the approval of the chairman of the department in advance of the time at which electives are due. Three hours a week for a year.

For the course in Group Leadership, of special value to students interested in the practical application of economic and social study, see page 106.

GENERAL EXAMINATION

The aim of the general examination set by the Department of Economics and Sociology will be to present for analysis new problems, calling for an application

of the principles and the body of factual material acquired by the student in those courses which have constituted her major in the department. In the same way that the examination at the end of each course attempts to test the student's power to reorganize and to correlate the material of the course and to bring it to bear upon a new situation, so the general examination will attempt to test that power with the larger body of material at the student's command as a result of all her work in the department.

EDUCATION

<i>Professor:</i>	ARTHUR ORLO NORTON, M.A. (Chairman)
<i>Associate Professor:</i>	DOROTHY WARNER DENNIS, B.A., DIPL.E.U. ASSOCIATE PROFESSOR OF FRENCH
<i>Visiting Professor:</i>	GUY MITCHELL WILSON, ⁶ Ph.D.
<i>Lecturers:</i>	MATILDA REMY, B.S. IN ED. ABIGAIL ADAMS ELIOT, B.A., ED.D. EUGENE RANDOLPH SMITH, M.A., PED.D. JOHN ROBERT PUTNAM FRENCH, M.A. CHARLES SWAIN THOMAS, M.A., LITT.D.
<i>Instructor:</i>	ALICE BURT NICHOLS, B.A., ED.M.
<i>Assistants:</i>	GRACE ALLERTON ANDREWS, M.A. FRANCES DUNBAR NICHOLS, M.A.

ANNE L. PAGE MEMORIAL

(KINDERGARTEN AND FIRST GRADE.)

<i>Director:</i>	MATILDA REMY, B.S. IN ED.
<i>Kindergartners:</i>	NETTIE MARIE CONANT ANNA ALDEN KINGMAN, B.A., ED.M. JANE TALMADGE LOOMIS, B.A.
<i>First Grade:</i>	EILEEN EDITH CHATER, M.A.

WELLESLEY NURSERY SCHOOL

Director: LORNA LOUGEE, B.A.

The Department of Education offers both undergraduate and graduate courses. Nine hours of work may be counted toward the B.A. degree. Full work for the M.A. degree is offered.

201. MODERN EDUCATION: A STUDY OF THE PRINCIPLES OF EDUCATION, AND OF THE APPLICATIONS OF PSYCHOLOGY TO EDUCATION.

(See note IV, page 78.) This course is organized to meet the needs not only of prospective teachers but also of all who are interested in the intelligent direction of education in the home and in the community. The work of the course is illustrated throughout the year by visits to assigned schools for the observation of children and of classroom practice, and by examples of school work. A time allowance is made for the inspection of schools. The number of visits will not exceed eight for the year.

Open to juniors and to seniors who have completed or who are taking Psychology 101. Three hours a week for a year. MR. NORTON, MRS. A. B. NICHOLS.

⁶ Appointed for the second semester only.

202. HISTORY OF EDUCATION: WESTERN EUROPE.

Like course 203 this course is intended not only for prospective teachers, but also for all students who are interested in the intelligent discussion of educational affairs. The greater part of the semester is devoted to a study of personalities, problems, and policies in the development of public education in England, France, and Germany in the nineteenth and twentieth centuries. The course will begin with a brief survey of the historic foundations of modern education in Greek, Roman, and early Christian culture and in the rise of universities, the revival of classical learning and the Reformation. The lectures are illustrated by manuscripts, lantern slides, and translations from the documents.

Open to juniors and seniors. Graduates may elect this course under certain conditions. Three hours a week for the first semester. MR. NORTON.

203. HISTORY OF EDUCATION: THE UNITED STATES.

This course may be taken as an independent unit, or it may follow course 202. The topics include a study of European influences in American education; the colonial beginnings of education in Virginia, Pennsylvania, New York, and New England; national and state policies concerning education, 1776-1860; educational leaders: Thomas Jefferson, Emma Willard, Mary Lyon, Horace Mann, Henry Barnard and others; the expansion and reorganizations of public and private education since the Civil War; educational problems of today. The course is illustrated throughout by a wealth of original documents.

Open to juniors and seniors. Graduates may elect this course under certain conditions. Three hours a week for the second semester. MR. NORTON.

301. SECONDARY EDUCATION.

The principles and methods of secondary education, with special reference to the high schools and junior high schools of the United States. A study will be made of approved methods of teaching English, foreign languages, sciences, mathematics, and history in high schools. Opportunity will be given for observation of the work of specially successful high school teachers in the subject which the student expects to teach. In connection with this course a semester of practice teaching is arranged for graduate students. Practice in teaching is not open to undergraduates.

Open by permission to seniors who have completed a full course in Education, and to graduates. Three hours a week for a year. Students who take course 302 or 303 are permitted to count the first semester of course 301 as a semester course.

MR. NORTON, MR. THOMAS, MRS. A. B. NICHOLS, AND LECTURERS.

302. PRINCIPLES AND PROBLEMS OF RELIGIOUS EDUCATION. (Not offered in 1934-35.)

A study of the principles of education as applied to the teaching of religion; forms and methods of conduct control in the direction of the Christian ideal; survey and evaluation of available curricular materials for religious teaching; selected practical problems in the teaching of religion in the home, the school, the church school, and the community.

Open to seniors who have completed course 201. Students who elect this course may also elect the first semester of course 301 as a semester course. This course may be counted toward a major in Biblical History. Three hours a week for the second semester.

303. PRINCIPLES AND METHODS OF TEACHING FRENCH IN SECONDARY SCHOOLS.

The aim of this course is to teach the students how to impart to their pupils, in the shortest possible time, a speaking, understanding, reading, and writing knowledge of French. The instructor will deal with the several aspects of modern language work, such as the teaching of vocabulary, of grammar, of composition and of translation; the selection and use of books, the equipment of the teacher and of her department in the high school.

Open to seniors who have completed Education 201 and who are taking course 301, 302, 305, 306 or 307 in the Department of French. Students who elect this course may also elect the first semester of Education 301 as a semester course. This course may be counted toward a major in French. Three hours a week for the second semester.

MISS DENNIS.

320. EDUCATIONAL TESTS, MEASUREMENTS AND STATISTICS.

The standardized tests now available for college preparatory and other secondary school studies will be examined in detail in this course. The uses, advantages, misuses and disadvantages of such tests will be considered. Students will be given practice in constructing tests, in the technique of testing, and in the arithmetical interpretation of results.

Open to seniors who have completed one full course in Education. Three hours a week for the second semester.

MR. WILSON.

321. PROBLEMS IN THE APPLICATION OF PSYCHOLOGY TO EDUCATION. (Not given in 1934-35.)

The subject-matter of this course will vary from year to year in accordance with the equipment and needs of students. The methods of educational investigation and experimentation will be considered, and each student will be given an opportunity for intensive work in a problem in her field of interest.

Open by permission to seniors who have completed a full course in Education and who have an adequate equipment in Psychology, and to graduates who have completed two full courses in Education and who have an adequate equipment in Psychology. Three hours a week for the second semester.

MR. WILSON.

322.† THE EDUCATION OF YOUNG CHILDREN: HISTORY, THEORY, PROBLEMS.

This course deals with nursery, kindergarten, and primary education. The topics include (1) a review of the origins and historical development of education for children under nine years of age; (2) a detailed critical study of current theories of the nursery school, the kindergarten, and the primary school; (3) the child in relation to the home, the community, and the school; (4) current problems in child study.

Open to seniors who have completed Psychology 101, or an equivalent, and one full course in Education. Open also to graduates (see course 323). Three hours a week for a year.

MISS REMY.

† See notice on page 78.

323. † THE EDUCATION OF YOUNG CHILDREN: MATERIALS AND METHODS.

The practical application of the theory given in course 322. This course includes on the one hand a detailed study of the methods and materials of education for children under nine; and on the other extensive observation with practice in teaching. Observation and practice are given in the Wellesley Nursery School and the Anne L. Page Memorial, both situated on the Wellesley College campus. The schools of Boston and vicinity furnish a rich field for further study. A detailed study of the curriculum, activities, materials, and equipment is a part of the course.

Open to graduates only. This course presupposes or is to be taken with course 322. (Graduates must ordinarily take courses 322 and 323 together.) Three hours a week for a year. MISS REMY.

324. ELEMENTARY EDUCATION: HISTORY, THEORY, PRACTICE, AND PROBLEMS.
(Not offered in 1934-35.)

This course includes a detailed study of present elementary school practice, a critical discussion of the principles which underlie that practice, and the investigation of selected problems in elementary education.

Open to graduates who have completed Psychology 101, or an equivalent, and two full courses in Education. Three hours a week for a year.

325. HISTORY OF EDUCATION. (Not offered in 1934-35.)

This course covers the same periods in the history of education as course 202, but with additional reading, critical examination of the materials, and a detailed study of one or more topics from the sources. It is intended for graduate students who have had no general course in the history of education.

Open to graduates only. Three hours a week for a year. MR. NORTON.

Attention is called to the course in Group Leadership, page 106, of especial value to students taking Education. It is not counted as a course in Education.

DIRECTIONS FOR ELECTION

I. Students who intend to teach should (in their sophomore year if possible) consult a member of the Department of Education concerning city and state requirements for the certificate to teach. In a majority of states these requirements include from six to seven and one-half hours in Education; a few states require nine hours in this subject. Plans should be made in the sophomore year for completion of the necessary courses in Education, which must be taken in the junior and senior years.

II. In general, the department recommends the following arrangements: (1) For a six-hour elective in Education choose three hours in the junior, and three hours in the senior year. (2) For a seven and one-half hour elective, add to the above one and one-half hours in any semester of the junior and senior years. (3) For a nine-hour elective choose six hours in one year and three in the other, or four and one-half hours in each year.

† See notice on page 78.

III. (1) Prospective high school teachers should choose from the following courses: 201, 202, 301, 303 (for teachers of French only), 320, 321.

(2) Prospective kindergartners or directors of nursery schools should include course 322 in place of course 301 or 303.

(3) Students who are interested in religious education should include course 302 in their list.

IV. Students who have completed the prerequisite in Psychology (course 101), and who have completed Education 201, shall be entitled to credit for Education 201 on application blanks for state teachers' certificates, as follows:

3 semester hours in Principles of Education (or Principles of Teaching or Introduction to Education).

3 semester hours in Educational Psychology.

THE THEORY AND PRACTICE OF PRE-SCHOOL (KINDERGARTEN, NURSERY SCHOOL) EDUCATION

A five-year course, leading to the degrees of B.A. and M. A., may be planned by students who intend to specialize during the fifth year in the field of pre-school (kindergarten, nursery school) education.

The Department of Education offers exceptional facilities for this study. The Anne L. Page Memorial and the Wellesley Nursery School on the college campus and the Ruggles Street Nursery School in Boston give abundant opportunity for observation and practice in the nursery school, the kindergarten, and the first grade. Two lecturers of the department (Miss Remy, Miss Eliot) provide the necessary instruction in connection therewith. Various clinics and special classes for children in Boston and vicinity are also open to student observers. Related courses in other departments of the college may be chosen to form, with the courses in Education, a unified program of study.

The following suggestions are not intended to debar juniors and seniors who completed the prerequisites announced for the various courses in Education from entering upon graduate study in this field. Such students should consult the chairman of the department as to the best arrangement of their remaining undergraduate work.

Freshmen and sophomores, however, who look forward to service in the field of pre-school education may profitably include the following courses in their undergraduate years:

1. *Sophomore Year:* Complete course 101 in Psychology.
2. *Junior Year:* Elect Education 201 or 202 and Psychology 207 (or 101, if not taken in the sophomore year).
3. *Senior Year:* Elect Education 322 and Psychology 310 (or 207, if not taken in the junior year).
4. Elective courses in the Sciences, Literature, Art, and Music, and any major subject, are useful as a preparation for graduate study of the theory and practice of pre-school education.

5. The studies of the graduate year will be adapted to the needs of each student. In general, they will include Education 323 (and 322, if this course is not taken in the senior year) and such other courses or independent work as the circumstances require.

The general requirements for the M.A. degree are stated in the Graduate Circular. This should be consulted in all cases. It may be obtained from the Secretary to the Dean.

ENGLISH

I. ENGLISH LANGUAGE AND LITERATURE

<i>Professors:</i>	MARTHA HALE SHACKFORD, PH.D. LAURA HIBBARD LOOMIS, ² PH.D. ELIZABETH WHEELER MANWARING, PH.D. HELEN SARD HUGHES, PH.D. (Chairman) ANNIE KIMBALL TUELL, PH.D. ALFRED DWIGHT SHEFFIELD, M.A.
<i>Associate Professors:</i>	ALICE IDA PERRY WOOD, PH.D. KATHARINE CANBY BALDERSTON, ¹ PH.D. BERTHA MONICA STEARNS, M.A.
<i>Assistant Professors:</i>	ELLA KEATS WHITING, PH.D. GRACE ETHEL HAWK, B.LITT. OXON.
<i>Lecturer:</i>	T. H. VAIL MOTTER, PH.D.
<i>Assistant:</i>	MARGARET ANTOINETTE GERBER, B.A.

*101. ENGLISH LITERATURE OF THE RENAISSANCE—AN INTRODUCTION.

This course presents through selected types the literature of the English Renaissance as it reflects the thought, the adventure, the creative impulse of the period, from More's *Utopia* through the Age of Shakespeare. It considers the representative forms of Renaissance poetry; the sonnet, the short lyric, through Jonson and Campion, the romantic epic in Spenser's *Faerie Queene*. It studies representative types of Elizabethan and Jacobean drama, in the plays of Shakespeare and his contemporaries. It studies the prose of the period in the work of Lyly, Sidney, and Bacon.

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

MISS TUELL, MISS STEARNS, MISS WHITING, MISS HAWK, MR. MOTTER.

201. HISTORICAL DEVELOPMENT OF ENGLISH LITERATURE.

In order to avoid the rapid reading in a general survey, the course in different years concentrates on particular phases of English literature, considered historically in relation to contemporary English life and thought. In general, the first semester deals with literature in the Middle Ages and the Renaissance; the second semester, with literature of the seventeenth, eighteenth, and nineteenth centuries. This course counts for hours toward the degree, but not for admission to a course of grade III. Examination both semesters.

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

MISS HUGHES.

202. AMERICAN LITERATURE.

The course attempts to give a comprehensive account of American literature. It stresses the historical development of that literature, and considers such dom-

¹ Absent on leave.

² Absent on leave for the first semester.

inant influences upon it as Puritanism, the moving frontier, and the changing conceptions of democracy. It studies the Colonial and Revolutionary sources of American idealism, the rise of imaginative literature during the first half of the nineteenth century, the triumph of realism after the Civil War. This course counts for hours toward the degree but not for admission to a course of grade III. Examination both semesters.

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

203. SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON.

This course emphasizes the stress and conflict of an age of transition. It considers primarily the innovations of Donne and Jonson in poetry and those of Bacon, Browne, Burton, Walton, and Hobbes in prose. Some time is given also to reading the Cavalier and religious poets.

Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisites. Three hours a week for the first semester.

MISS HAWK.

204. MILTON.

The primary object of the 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 time.

Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisites. Three hours a week for the second semester.

MISS HAWK.

205. RENAISSANCE DRAMA. (Not offered in 1934-35.)

This course will trace the development of drama in Renaissance England, beginning with *Ralph Roister Doister* and continuing to the close of the theatres, 1642. Representative plays of the great Elizabethan and Jacobean dramatists will be studied, with particular emphasis upon the plays of Shakespeare.

Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisites. Three hours a week for a year.

206. THE ENGLISH NOVEL: THE RISE OF THE TYPES.

The course deals with selected stages in the growth of the English novel, from the Elizabethans to Scott, placing special emphasis upon the eighteenth century in the work of Richardson, Fielding, Smollett, Sterne. It follows mainly the trend of realism, but considers types of romance: the pastoral, the picaresque, and forms associated with the Romantic Movement,—the tale of terror, the historical novel, the novel of social reform. Class discussions, lectures, tests. Final paper for students intending to do major work in the department; for others, final paper or examination.

Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisites. Three hours a week for a semester; offered in both semesters. Students electing this course should state on the slip the semester chosen.

MISS TUELL.

207. ARTHURIAN ROMANCE.

The course begins with an introductory study of those legends in ancient Celtic literature which definitely influenced later Arthurian story. It traces the historical development of Arthurian tradition through the mediæval chronicles, the French and the English verse romances, but centers in the study of the sources and significance of Malory's *Morte Darthur*. As time permits, modern forms of Arthurian romance are discussed.

Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisites. Three hours a week for the second semester.

MRS. LOOMIS.

208. CHAUCER.

This course traces the development of Chaucer's art. His poetry is studied in relation to its sources, and to the social and literary background of his time. The major portion of his work is read.

Open to sophomores who have taken course 101 in the department, and to juniors and seniors without prerequisites. Three hours a week for the second semester.

MRS. LOOMIS.

209. VERSIFICATION.

The course has as its object in general such study of the principles of English versification as may give to the student of literature a keener appreciation of poetic expression; and, in particular, for those interested in writing verse, opportunity for experiment and criticism.

Open to students, except freshmen, who have completed or are taking one full course in the department of English Literature, and also to those majoring in English Composition. One hour a week for a year.

MISS MANWARING.

210. MODERN POETRY.

This course will undertake to present some of the chief English poets and the most striking developments in English poetry since 1900. It may not be counted toward a major in this department.

Open to juniors and seniors without prerequisites. One hour a week for a year.

MISS MANWARING.

301. SOCIAL IDEALS IN ENGLISH LETTERS. (Not offered in 1934-35.)

Study of selected masterpieces from the social point of view. Rapid reading of *Piers Plowman*, More's *Utopia*, Swift's *Gulliver's Travels*; more careful work with Burke and the Revolutionary poets, and with the prose and poetry of the Victorian Age.

Open to seniors who have completed two full courses in English Literature or Economics or History, or who have completed one full course in any of these departments and are taking another course. Three hours a week for a year.

303. CONTEMPORARY DRAMA. (Not offered in 1934-35.)

The modern English drama is considered in relation to parallel European drama. This course may not be counted toward a major in English Literature.

Open to students who have completed two full courses above grade I in the department. Two hours a week for a year.

306. VICTORIAN PROSE.

The course makes a comparatively even division of time between essay and fiction. The stress in class is laid upon Dickens, Carlyle, Thackeray, Newman, George Eliot, Ruskin, Arnold, Meredith, with some attention to the later writers, such as Pater, Morris, Hardy, Butler. The course is concerned also with minor groups and figures, as it traces, with some reference to present issues, the successive problems which have marked the growth of modern thought. Class discussion and lectures. Written reviews and occasional brief papers. First semester, examination; second semester, final paper or examination.

Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department, or (2) completed three hours of grade II in the department.* Three hours a week for a year.*

MISS TUELL.

307. ENGLISH POETRY OF THE NINETEENTH CENTURY.

The course considers the work of the great Georgian and Victorian poets in their relation to one another and to contemporary thought. Extended study is given to Wordsworth and Coleridge; Shelley and Keats; Tennyson and Browning; with briefer readings from Byron, Scott, Landor, Clough, Arnold, Rossetti, Morris, Swinburne, and Meredith. Written reviews. Occasional brief papers. First semester, examination; second semester, test to be decided later.

Open to juniors and seniors who have either (1) completed a course of grade I and have completed or are taking three hours of work of grade II in the department, or (2) completed three hours of grade II in the department.* Three hours a week for a year.*

MISS SHACKFORD.

309. SHAKESPEARE.

This course traces the development of Shakespeare as a dramatist and poet. About thirty plays are read in all, chronologically, according to types. The plays before 1600 are read in the first semester, the plays after 1600 in the second. Sufficient study of Shakespeare's predecessors and contemporaries is made to enable the student to distinguish the traditional and imitative aspects of Shakespeare's plays. The course also considers Shakespeare's life, the theater of his day, representative source problems, and the development of Shakespearean criticism. The course requires frequent short papers during the term, and a final examination in each semester.

Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department, or (2) completed three hours of grade II in the department.* Three hours a week for a year.*

MR. MOTTER.

310. EIGHTEENTH CENTURY LITERATURE.

This course considers the major writers of the eighteenth century, with the exception of the novelists. In the first semester, the emphasis is upon the Queen

* Courses 201, 202, and 210, not in the English Literature major, do not serve as prerequisites for grade III.

Anne group,—Pope, Swift, Addison, and Steele; in the second semester, upon Doctor Johnson and his circle and the precursors of the Romantic Movement. The course traces the influence upon literature of politics, of current ideas concerning man and society, and changing standards of criticism. Examination both semesters.

Open to juniors and seniors who have either (1) completed a course of grade I, and have completed or are taking three hours of work of grade II in the department, or (2) completed three hours of grade II in the department.* Three hours a week for a year.*

MISS HUGHES.

311. SEVENTEENTH CENTURY EXCLUSIVE OF MILTON. (Not offered in 1934-35.)

This course will be devoted to a somewhat intensive study of certain phases of the century.

Open to juniors and seniors who have completed course 101, and have completed or are taking a full year course or two semester courses of grade II. Three hours a week for a year.

312. HISTORY OF THE ENGLISH LANGUAGE.

The course traces the development of the English language from its beginning to the present day, treating phonology, and changes in grammar, and vocabulary. Consideration is given to problems of modern usage. Selected works of English authors which illustrate the various stages in the development of the language are studied.

Open to juniors and seniors who have completed or are taking a full year course or two semester courses of grade II either in English Composition or in English Literature. In some cases other students whose preliminary training has been done in a language other than English may be admitted by special permission. Three hours a week for a year.

MR. SHEFFIELD.

320. SEMINAR. STUDIES IN EIGHTEENTH CENTURY LITERATURE. (Not offered in 1934-35.)

This course considers eighteenth century literature in relation to social and intellectual movements of the time.

Open to seniors who have completed six hours of work in the department and to graduate students. Three hours a week for a year.

321. SEMINAR. MODERN AUTHORS. (Not offered in 1934-35.)

Two or more authors are chosen each year for special study. The work is carried on by class reading and discussion, and by assigned readings upon which individual reports are made.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

322. SEMINAR. ENGLISH ROMANTICISM. (Not offered in 1934-35.)

A study of the Romantic Movement in England, from its beginnings in the eighteenth century, on through the work of the early nineteenth century poets.

* Courses 201, 202, and 210, not in the English Literature major, do not serve as prerequisites for grade III.

Certain phases of the relation of English to German literature during the period of reaction are studied.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year.

323. SEMINAR. CRITICAL STUDIES IN ENGLISH DRAMA.

In 1934-35 the general subject will be the English drama of the Renaissance, with special study of the work of Lyly, Marlowe, Shakespeare, and Jonson. The course attempts to give training in methods of research, touching problems relating to: the theory of tragedy, comedy, the theatre, publication, textual criticism, but the primary object is the study of Shakespeare's most important work in the light of contemporary drama. Special topics, discussions, conferences.

Open to seniors who have completed six hours of work in the department, and to graduate students. Three hours a week for a year. MISS SHACKFORD.

324. SEMINAR. CRITICAL STUDIES IN AMERICAN LITERATURE.

This course considers the development of American literature from 1825 to 1860 in relation to the social history of the time. It deals with the manifestations of Romanticism in America, the conflict of Romanticism and Industrialism, the Transcendental Movement, and the literary aspect of the agitation for Reforms. Stress is laid upon the work of Poe, Emerson, Thoreau, Lowell, Hawthorne, Melville, Whittier, and Harriet Beecher Stowe. The magazines of the period receive some attention.

Open to seniors who have completed six hours of work in the department, and to graduate students. Three hours a week for a year. MISS STEARNS.

325. SEMINAR. BEGINNINGS OF THE ENGLISH RENAISSANCE FROM CAXTON TO SHAKESPEARE. (Not offered in 1934-35.)

The course aims to give graduate training, and so to present the beginnings of the English Renaissance that the student may rightly estimate the achievements of the great Elizabethans.

Open to graduates, and to approved seniors. Three hours a week for a year.

326. SEMINAR. MEDIEVAL ENGLISH LITERATURE: FICTION. (Not offered in 1934-35.)

Emphasis is given to such problems of origin and of linguistic and literary development as afford opportunities for independent work.

Open to graduates, and to approved seniors who are taking a twelve-hour major in the department. Three hours a week for a year. MRS. LOOMIS.

327. SEMINAR IN OLD ENGLISH. (Not offered in 1934-35.)

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.

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

328. BIBLIOGRAPHY.

This course aims to acquaint the graduate student with the chief information and procedure requisite for the discovery and use of her material: examination of original texts, study of editions, use of general works of reference, technical periodicals, and special studies in different fields of English literature.

Not open to undergraduates. Required of graduate students in the department. One hour a week for the first semester. MISS MANWARING.

350. RESEARCH OR INDIVIDUAL STUDY.

On consultation with the department, qualified seniors or graduate students may arrange for directed study in a field in which they have already worked.

Permission to register for this must be obtained before electives are handed in. One to three hours a week for a year. The amount of work contemplated must be indicated at the time of handing in the electives.

For courses in Greek Literature in English translations see Department of Greek.

DIRECTIONS FOR ELECTION

To insure a desirable distribution of work over several periods of literary history, students planning to major in the department are required to select their grade II and grade III courses from three or more of the following groups:

1. The Middle Ages. (In 1934-1935: courses 207, 208, 312.)
2. The Sixteenth Century (309, 323).
3. The Seventeenth Century (203, 204).
4. The Eighteenth Century (206, 310).
5. The Nineteenth Century (306, 307).
6. American Literature (324).

ADDITIONAL SUGGESTIONS. Those students who specialize in English Literature are advised to consider electing History 101 or 102; in general the department believes that a student should bring to her study of literature breadth of interest, and acquaintance with scholarly methods in various departments.

Those students who are planning to teach English in secondary schools should include in their preparation one course in English Language, and a reasonable amount of English Composition.

COURSES NOT INCLUDED IN THE MAJOR. Courses 201, 202, 210. (See description.)

GENERAL EXAMINATION

The English Literature department will present for the general examination two sets of questions, *i. e.* morning and afternoon, covering the courses offered by the department. In this list of questions there will be a sufficient number to insure a fair opportunity for choice. Each student will select the questions dealing with the subjects she has studied in her major.

The questions will seek to test: (1) the student's knowledge of authors, works, types, and periods included in her major; (2) her intelligence and accuracy in

correlating her knowledge; (3) her independence of judgment and her literary discrimination.

Members of the department will meet the seniors majoring in the department in a group once or twice during the first semester of each year to discuss the purpose of the general examination, and the best methods of study to prepare for it.

II. ENGLISH COMPOSITION

<i>Professors:</i>	SOPHIE CHANTAL HART, M.A. (Chairman) AGNES FRANCES PERKINS, M.A., M.S. ELIZABETH WHEELER MANWARING, PH.D. ALFRED DWIGHT SHEFFIELD, M.A.
<i>Associate Professors:</i>	JOSEPHINE HARDING BATCHELDER, M.A. EDITH CHRISTINA JOHNSON, ³ PH.D.
<i>Assistant Professor:</i>	EDITH HAMILTON, M.A.
<i>Lecturer:</i>	EMMA MARSHALL DENKINGER, PH.D.
<i>Instructors:</i>	LOUISE MACDONALD CHAPMAN, M.A. ENID CONSTANCE STRAW, M.A. MARY ELEANOR PRENTISS, M.A.
<i>Assistant:</i>	DOROTHY KNEELAND CLARK, M.A.

*101.† REQUIRED FRESHMAN COMPOSITION.

First semester: exposition. Emphasis on structure and on use of source materials. Weekly themes or their equivalent. Second semester: critical and interpretative writing; description; simple narration. Fortnightly themes or their equivalent.

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

MISS MANWARING, MR. SHEFFIELD, MISS BATCHELDER,
MISS HAMILTON, MISS DENKINGER, MRS. CHAPMAN,
MISS STRAW, MISS PRENTISS.

102. CONTINUATION COURSE IN COMPOSITION.

Practice in the organization and presentation of ideas developed from the student's reactions to planned reading. Special stress on vocabulary, and on paragraph and sentence, in relation to thinking.

Required of students who have made D grade in the second semester of course 101. (In case the number of students incurring this requirement falls below the minimum for a class, the work will be individually conducted on a tutorial plan.) Three hours a week for the first semester.

MR. SHEFFIELD.

201. THE ESSAY.

This course traces the development of the technique of the English essay through the letter, the character, and other literary forms; and studies the methods of such essayists as Lamb, Hazlitt, Stevenson, and Chesterton. The course offers varied reading in contemporary essays and frequent practice in writing different types of essays, with class discussion of principles and craftsmanship.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 203, 206, 301, or 304. Three hours a week for the first semester.

MISS JOHNSON.

³ Absent on leave for the second semester

† If a student submits papers notably deficient in English as part of her work in any department, she may incur a condition in English Composition, whether or not she has completed the requirement in English Composition.

203. STUDIES IN JOURNALISTIC WRITING.

A critical study of selected types of journalistic writing: news story, editorial, special article, book review, dramatic review, as exemplified in typical American and English newspapers and weekly periodicals. Weekly or fortnightly assignments.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 201, 206, 301, or 304. Three hours a week for the first semester.

MISS PERKINS, MISS BATCHELDER.

204. STUDIES IN CONTEMPORARY WRITING.

This course is a continuation of course 203, 206, or 201, or may be taken separately. A study of the elements of style, the essay form, the critical review, the biography, and the sketch. Fortnightly themes or their equivalent.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 205, 207, 208, 302, or 304. Three hours a week for the second semester.

MISS PERKINS.

205. FURTHER STUDIES IN JOURNALISTIC WRITING. (Not given in 1934-35.)

This course is primarily a continuation of course 203 or may be elected separately. A study of articles in various American and English monthly magazines, with special reference to the suggested use of the student's own resources. Monthly or fortnightly articles, and collateral reading.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 204, 207, 208, 302, or 304. Three hours a week for the second semester.

MISS PERKINS.

206. FREE WRITING.

Practical and creative forms of prose composition with illustrative reading. The types of writing are selected in accordance with the interests of individual members of the class. Discussion of papers in class and in conference.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 201, 203, 301, or 304. Three hours a week for the first semester.

MISS HAMILTON.

207. FREE WRITING (continued).

Emphasis laid upon contemporary material in the types of writing studied and practiced. Discussion of papers in class and in conference.

Open to students who have completed the requirement in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 204, 205, 208, 302, or 304. Three hours a week for the second semester.

MISS HAMILTON.

208. STUDIES IN BIOGRAPHY AND LITERARY PORTRAITS.

This course deals with some of the problems and practices that distinguish biography as a developing form of literary art. Emphasis will be placed on the

contemporary biographer's way of handling his materials, often as influenced by other fields of expression. This course may follow course 203 or 206 or 201. Writing varied and frequent.

Open to students who have completed the requirements in English Composition. Not open to students who have completed three semesters of grade II work or are taking course 204, 205, 207, 302, or 304. Three hours a week for the second semester.

MISS BATCHELDER.

301. NARRATIVE WRITING.

Study of the principles and forms of narrative writing, including the short story. The course aims to lead the student to discover the possibilities of material at her disposal, and to appreciate more fully the qualities of good narrative.

Open to juniors and seniors who have completed the requirement in English Composition. Two hours a week for the first semester.

MISS MANWARING, MISS JOHNSON.

302. DESCRIPTIVE, NARRATIVE, AND CRITICAL WRITING.

This course may be a continuation of course 301 or may be elected separately. By means of frequent practice in descriptive, narrative and critical writing, and study of the elements of good prose style, the course aims to develop keener sense of the excellences of many kinds of writing. It provides reading and class discussion of the theory and practice of numerous writers.

Open to juniors and seniors who have completed the requirement in English Composition. Two hours a week for the second semester.

MISS MANWARING, MISS DENKINGER.

303. THE THEORY AND HISTORY OF CRITICISM.

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

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

304. ADVANCED COURSE IN ENGLISH COMPOSITION.

Studies in exposition, description, and narration, with one piece of dramatization or an original play. An opportunity will be given once each semester to correct some freshman themes, under the criticism of the instructor. Frequent practice in writing.

Open to seniors who have completed course 203 or 206 or 201 followed by course 204, 205, 207, or 208; or courses 301-302; or, by special permission, course 303. Not open to students who are taking course 301 or 302 or a course of grade II. Three hours a week for a year.

MISS HART, MISS PERKINS.

305. MODERN DRAMA.

This course deals with some of the chief plays produced in English and in other languages from Ibsen to O'Neill. Translations will be used. The emphasis of the course is on the evolution of play-writing technique; its aim is to help students who desire subsequently to write plays or to write dramatic criticism. Frequent writing.

Open to juniors and seniors. Two hours a week for a year. MISS HART.

350. RESEARCH OR INDIVIDUAL STUDY.

Open by permission to graduate students only. One hour a week for a year.

MAJORS

Courses should be elected in the following sequence:

Grade I: 101.

Grade II: 201, 203, 206 (first semester); 204, 205, 207, 208 (second semester).

Grade III: 301 (first semester); 302 (second semester), 303, 304, 305.

Recommended for a twelve-hour major: 101, two semester courses of grade II (see restrictions under individual courses); six hours of grade III. Course 303 should always be included. See note.

Recommended for a nine-hour major (in association with an allied course in another department): 101; two semesters of grade II; either 301-302 with 303, or 304. See note.

Or, if desired, the grade II courses may be omitted and the nine hours may include 101, 301-302 (or 305) and 303, 304.

NOTE.—Either 301-302 or 304 must be taken in the senior year in a nine or a twelve-hour major.

Note that no two of the grade II courses may be taken at the same time, nor may any of these or 301-302 or 304 be taken at the same time. Course 303 and course 305 may be taken at the same time with another grade III course in the department.

Courses in English Language (English Literature 312 and 327) or English Literature 209 may count as a part of a twelve-hour major in Composition; but at least three hours of grade III work in Composition must be included in any major in the department.

Students intending to teach English Composition would do well to include in their program some courses in English Literature and, if possible, a course in English Language.

Students are referred to the course in Group Leadership, page 106.

GENERAL EXAMINATION

The general examination in English Composition will include questions on the theory—on the principles of craftsmanship—underlying the specific courses the student has taken; it will include a study of the forms of description, narration, and exposition in their general aspects; a study of differing types of essay, of biography, of criticism; a study of the historical development of the sentence, of the paragraph, and of the linguistic elements composing our vocabulary. The student will be expected to organize her answers clearly and to write with reasonable fluency and finish. Supplementary reading and detailed instructions will be given in a department statement to be issued later.

FRENCH

<i>Professor:</i>	RUTH ELVIRA CLARK, LITT.D. (Chairman)
<i>Visiting Professor:</i>	RENÉ ESCANDE DE MESSIÈRES, AGRÉGÉ DE L'UNIVERSITÉ.
<i>Associate Professors:</i>	DOROTHY WARNER DENNIS, B.A., DIPL.E.U. MARGUERITE JULIETTE BRÉCHAILLE, ¹ AGRÉGÉE DE L'UNIVERSITÉ.
<i>Assistant Professors:</i>	FRANÇOISE RUET, M.A., AGRÉGÉE DE L'UNIVERSITÉ. ANDRÉE BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS. EDITH MELCHER, Ph.D.
<i>Lecturers:</i>	SIMONE DAVID, AGRÉGÉE DE L'UNIVERSITÉ. NICOLETTE INA PERNOT, LIC. ÈS LET.
<i>Instructors:</i>	ALICE MARGUERITE MARIE MALBOT, LIC. ÈS LET. MARIE ANTOINETTE QUARRÉ, B.A., C.E.S., DIPL.E.S.

A limited number of qualified students are permitted to spend the junior year in France with the foreign study group of the University of Delaware.

All courses beginning with course 101 are conducted in French.

*101. ELEMENTARY COURSE.

The course includes (1) a practical study of French pronunciation, phonetic drill; (2) the practical study of French grammar; (3) readings on French life and French institutions; (4) selected readings from modern writers. Constant oral drill and frequent written work.

Open to students who do not present French for admission. Three hours a week for a year. MISS DENNIS.

*102. SELECTED READINGS FROM MODERN FRENCH AUTHORS DEALING WITH LIFE IN DIFFERENT REGIONS OF FRANCE.

These texts serve as a basis for a systematic review of syntax introductory to theme writing and oral narrative, and a practical study of French pronunciation with phonetic drill.

Open to students who have completed course 101, or present two units in French for admission. Three hours a week for a year. MISS DENNIS, MISS MELCHER.

*103. FRENCH LIFE AND INSTITUTIONS.

A study of modern plays and novels dealing with aspects of French contemporary life. Stress will be laid on grammar, vocabulary and pronunciation. Frequent themes and exercises. Outside reading.

Open to students who present three units in French for admission. This course is intended for students who need further training in the spoken and written language. Students whose classroom work has been conducted hitherto mainly in English are urged to elect this course rather than course 104. It is not open to students who have completed course 104 and only exceptionally, by permission of the department, to students who have completed course 102. Three hours a week for a year.

MISS BRUEL, MISS CLARK, MISS MALBOT, MISS MELCHER, MISS PERNOT,
MISS QUARRÉ.

*104. INTRODUCTION TO THE STUDY OF FRENCH LITERATURE.

A study of representative literary masterpieces of various periods. The aim of this course is to prepare students for more advanced work in language and

¹Absent on leave.

literature, acquainting them with French methods of literary study. It provides an historical background and includes a study of pronunciation, grammar, and vocabulary, as well as application of *lecture expliquée* methods. It affords constant practice in the written and spoken language. Outside reading of representative novels.

Open to students who present three units of French for admission or have completed course 102. This course is intended for students whose previous classroom work has been conducted mainly in French. It is not open to students who have taken course 103. Three hours a week for a year. MRS. DAVID, MISS MALBOT.

*201. FRENCH CIVILIZATION BEFORE THE REVOLUTION.

An introduction to the civilization of France, as revealed in history, art, and selected literary masterpieces. Emphasis is laid on language as a preparation for later courses. Class discussion, oral reports, frequent written work.

Open to students who have completed course 103 or 104, or present four units in French for admission, and, on recommendation of the department, to students who have completed course 102 or another three-hour course of grade II. Three hours a week for a year. MISS DENNIS, MISS RUET, MISS BRUEL.

*202. COMPOSITION, TRANSLATION, GRAMMAR.

First course. Weekly written work. The object of the course is to provide additional practice in the written and the spoken language.

Open to students who have completed course 103 or 104 or present four units for admission, and on special recommendation of the department to students who are taking course 103. One hour a week for a year. MISS CLARK, MISS QUARRÉ.

205. COMPOSITION, TRANSLATION, GRAMMAR.

Second course. The work of the course is on the same lines as in course 202, but more advanced in nature.

Open to students who have completed course 202 or 201 or 204, and to other students on recommendation of the department. One hour a week for a year.

MISS QUARRÉ.

203. HISTORY OF FRENCH LITERATURE.

A survey course, intended primarily for students who do not expect to major in French; more ground is covered than in course 204. Class discussion of selected masterpieces, short papers, outside reading. First semester: A brief study of the Middle Ages and the Renaissance; the seventeenth century. Second semester: The eighteenth century and the first half of the nineteenth.

Open to approved students who have completed course 103 or 104 and, exceptionally, on recommendation of the department, to students who have completed course 102 or course 201. This course is not open to students who have completed or are taking course 204. Three hours a week for a year.

MISS CLARK, MISS MELCHER.

204. STUDIES IN FRENCH LITERATURE.

A study of representative French authors of the Middle Ages, the Renaissance (the texts used are in modern French), the seventeenth and eighteenth centuries.

The course will stress the work of the sixteenth and seventeenth century writers. A few subjects only are chosen for each period and special attention is given to method and to the handling of material in view of further work. Brief papers, *lecture expliquée*, outside reading, class discussion.

Open to approved students who have completed course 104 and who intend to major in French and, on recommendation of the department, also to students who have completed course 103; and, exceptionally, to students who have completed course 201. This course is not open to students who have completed or are taking course 203. Three hours a week for a year.

MISS RUET, MISS MALBOT.

206. PRONUNCIATION AND DICTION.

This course is intended primarily to supplement advanced courses by practical work in speech. An analytical study of American defects, both general and regional, in French speech, and means of remedying such defects. A practical study of pronunciation and intonation.

Open to students who have completed courses 103 or 104, or 102 with the consent of the department, and to those who have taken or are taking a grade II or a grade III course in French. One hour a week for a year.

MISS PERNOT.

301. THE CLASSICAL PERIOD OF FRENCH LITERATURE.

The main object of the course is the study of the development of French classical literature and of society. The authors studied are: Malherbe, Descartes, Pascal, La Rochefoucauld, La Bruyère, Bossuet, Fénelon, Corneille, Racine, Molière, Madame de Sévigné, Madame de Lafayette, La Fontaine, Boileau. Outside reading. Brief papers.

Open to students who have completed course 201 with a grade of at least C, or course 203 or 204 and who have not already taken a three-hour course of grade III, and to seniors who have completed or are taking three hours of grade II. Three hours a week for a year.

MRS. DAVID, MISS BRUEL.

302. EIGHTEENTH CENTURY LITERATURE. (Not given in 1934-35.)

The aim of this course is to trace the development of the *esprit philosophique*, and to show the evolution of ideals in this century. While other authors will be taken up, the course will stress the works of Montesquieu, Voltaire, and Rousseau. Class discussions of selected masterpieces, oral reports, short papers.

Open to juniors and seniors who have completed course 203 or 204, or who have taken a grade III course. Three hours a week for a year.

MISS CLARK.

303. SPECIAL STUDIES IN THE NINETEENTH AND TWENTIETH CENTURIES. (Not given in 1934-35.)

Intensive study of a group of important works or some fundamental problems of either period.

Open to juniors and seniors who have completed course 301 or 302 or 305 and, exceptionally, on special recommendation of the department, to juniors and seniors who have completed course 203 or 204. Three hours a week for the second semester.

304. CONVERSATION.

A conversation course based on the reading of contemporary regional novels on Brittany, Normandy, Touraine, Béarn, Provence, etc.

Open to juniors and seniors who have completed or are taking a three-hour course of grade II, and, on recommendation of the department, to sophomores who have completed a three-hour course of grade II. Two hours a week for the first semester.

MR. DE MESSIÈRES, MISS PERNOT.

309. CONVERSATION.

The work of the course is the same as in 304, but other novels will be assigned.

Open to juniors and seniors who have completed or are taking a three-hour course of grade II, to students who have completed course 304, and, on recommendation of the department, to sophomores who have completed a three-hour course of grade II. Two hours a week for the second semester.

MR. DE MESSIÈRES, MISS PERNOT.

305. INTENSIVE READING.

The work of this course will consist of the intensive study of one subject. In 1934-35 the subject chosen will be: History of the French Novel with special emphasis on the evolution of the *genre*. Oral reports, class discussion, approximately a paper a fortnight.

Open to juniors and seniors who have completed course 203 or 204, or who are taking a course of grade III. Three hours a week for a year.

MISS BRUEL.

306. NINETEENTH CENTURY LITERATURE. ROMANTICISM.

A study of the romantic movement in French literature, and in particular of the great novelists and poets of that period: Lamartine, Vigny, Victor Hugo, Musset, Chateaubriand, Mme. de Staël, Benjamin Constant, Balzac, Fromentin, Stendhal, Barbey d'Aurevilly. Approximately a paper a fortnight. Occasional visits to Farnsworth Art Museum or Boston Museum of Fine Arts for basis of written work.

Open to juniors and seniors who have completed course 301, or 302, or 305, and, on recommendation of the department, to students who have completed course 203 or 204. Three hours a week for a year.

MR. DE MESSIÈRES.

307. CONTEMPORARY FRENCH LITERATURE.

I. The evolution of French poetry from Baudelaire to the present day, with special studies of Baudelaire, Rimbaud, Verlaine, Régnier, Claudel, Valéry, Max Jacob, etc. II. The masters of French prose during the same period: Léon Bloy, Gide, Proust, Giraudoux, Mauriac, Morand, Cocteau, Lacretelle, etc.

Open to seniors who have completed course 301 or 302 or 305 or 306 and, exceptionally, on special recommendation of the department, to seniors who have completed course 203 or 204. Three hours a week for the year.

MR. DE MESSIÈRES.

308. STUDIES IN LANGUAGE.

Advanced composition and translation.

Open to juniors and seniors who are taking a course of grade III, and, on recommendation of the department, to juniors and seniors who have completed a course of grade II. Two hours a week for the first semester.

MISS RUET, MISS QUARRÉ.

310. STUDIES IN LANGUAGE.

The aim of this course is the same as in 308, but different subjects and texts will be studied.

Open to juniors and seniors who are taking a course of grade III, or have completed course 308, and, on recommendation of the department, to juniors and seniors who have completed a course of grade II. Two hours a week for the second semester.
MISS RUET, MISS QUARRÉ.

350. RESEARCH OR INDIVIDUAL STUDY.

Study of the works and personality of the great masters of the Romanticist period or the contemporary period.

Open, by permission of the department, to properly qualified juniors and seniors who are taking course 306 or 307. Three hours a week for the first semester.

MR. DE MESSIÈRES.

321. OLD FRENCH. (Not offered in 1934-35.)

Open to graduate students who have completed twelve year-hours of college French, and, on recommendation of the department, to seniors who have completed the same amount of work. Three hours a week for a year.

DIRECTIONS FOR ELECTION

I. Course 101 counts for the degree but does not count towards a major.

Course 102 counts for the major only if directly followed by a three-hour course of grade II.

Two three-hour courses of grade II may not be carried without permission of the department.

II. A nine-hour major will consist of not less than three hours of grade III and not more than three hours of grade I.

A twelve-hour major will consist of not less than six hours of grade III and not more than three hours of grade I.

III. Course 202 taken in the sophomore year, course 205 in the junior year and courses 308, 310 in the junior or senior year will be most valuable to students majoring in French and especially to students who wish to take the general examination in French. Course 206 will give additional training in diction.

Students majoring in French literature are advised to include 301 in their program.

The following courses are suggested to students planning to elect French 302: History 102 or 201, English Literature 206, 310.

Students proposing to elect French 305 are advised to elect English Literature 207 and 206.

Students proposing to elect French 306 are advised to elect History 201, English Literature 322, and German 305.

Students proposing to elect French 307 in the senior year are advised to elect course 306 in the junior year.

All students are urged to consult their instructors and the chairman of the department in regard to their higher electives, especially such students as intend to teach French and desire the recommendation of the department. It will be well for them to plan fifteen hours of electives.

Only those students who have completed satisfactorily a twelve-hour major in the department will be recommended as teachers of French.

Special attention is called to Education 303, which is open to seniors who are taking French 301, 302, 305, 306, or 307.

GENERAL EXAMINATION

The general examination in French will consist of two parts:

Part I. French Literature, to be given in the morning. Three hours.

Part II. French Language, to be given in the afternoon. Two hours.

In part I general questions only will be asked on the subjects studied in courses 201, 203, 204, especially questions that stress the interrelation between these courses and courses of grade III. The longer part of this examination will be devoted to questions bearing on the subjects studied in courses of grade III, involving correlation of earlier and later courses, comparisons, study of a type or "genre," etc.

Part II will consist mainly of translation from French into English, and English into French, or in *explication de texte*.

MODEL GROUPINGS OF TWELVE-HOUR MAJORS SUITABLE AS A BASIS FOR THE GENERAL EXAMINATION

I. Students entering with two units of French.

First Year: 102.

Second Year: One of the following, on special recommendation of the department: 201, 203.

Third Year: 301.

Fourth Year: One of the following: 302, 305, 306, 307.

II. Students entering with three units of French.

First Year: 103 or 104.

Second Year: One of the following: 201, 204, 203.

Third Year: Preferably 301, or one of the following: 302, 305, 306.

Fourth Year: 307 (or one of the following, if not previously taken: 302, 305, 306).

III. Students entering with four units of French.

First Year: 201.

Second Year: 301.

Third Year: One of the following: 302, 305, 306 (preferably 306, if 307 is to follow).

Fourth Year: 307 (or one of the following, if not previously taken: 302, 305, 306).

Important Note

To the preceding should be added, if possible, one or more of the following courses:

A. Grammar and Composition Courses: 202 in the sophomore year, 205 in the junior year, 308, 310 in the junior or senior year.

B. Pronunciation and Diction: Course 206.

C. Conversation Courses: 304, 309 in the junior or senior year. (In the sophomore year on recommendation of the department.)

D. Research or Individual Study: 350 in conjunction with courses 306 or 307, in the junior or senior year.

For nine-hour groups in accordance with plans 1 and 2 students should follow directions suggested for the first three years in any of the foregoing model groupings.

GEOLOGY AND GEOGRAPHY

<i>Professor:</i>	MARY JEAN LANIER, Ph.D. (Chairman)
<i>Associate Professor:</i>	MARGARET TERRELL PARKER, ³ M.A.
<i>Assistant Professor:</i>	LOUISE KINGSLEY, Ph.D.
<i>Lecturer:</i>	RUSSELL GIBSON, Ph.D.
<i>Instructor:</i>	HARRIET ELIZABETH LEE, M.A.
<i>Assistant:</i>	ELIZABETH RICHARDS ROY, M.A.

*101. GENERAL GEOLOGY.

First Semester—Physiography. A study of the work which wind, waves, rivers, glaciers, volcanoes, and earth movements have done and are doing to shape the earth's surface. This study explains the origin of hills and valleys, of plains, plateaus and mountains, of continents and ocean basins, and makes clear the ways in which these surface features have affected man's life. Second Semester—Historical Geology. The origin of the earth and its history from the time of its origin until the present. The evolution of life on the earth traced from its earliest known appearance through its recent development.

Open to all undergraduates. Six periods a week: in general, three of lecture or discussion and three of laboratory or field work, counting three hours a week for a year. MISS LANIER, MISS PARKER, MISS KINGSLEY, MISS LEE, MRS. ROY.

GEOLOGY

202. MINERALOGY.

A study of the minerals which are noteworthy either because they are essential constituents of rocks, or because they are of value economically. The treatment will include a study of the principles of crystallography; the sight recognition of minerals by means of their physical properties; the determination of minerals by means of blowpipe analysis; the mode of occurrence of those minerals; the uses to which they are put industrially.

Open to students who have completed Geology 101 or Chemistry 101. Two three-period appointments a week for lecture or laboratory work, counting three hours a week for the second semester. MR. GIBSON, MISS LEE.

207. ADVANCED GEOLOGY.

A more advanced study than can be undertaken in course 101 of various problems in geology, chiefly structural and dynamic. Such topics as sedimentation, folding, fracturing, earthquakes, vulcanism, and metamorphism are given detailed treatment.

Open to students who have completed course 101. One three-period appointment and an additional one-period appointment. In general, two periods will be used for lecture or discussion and two for laboratory work. Occasional field trips will be substituted for laboratory work. The course counts three hours a week for the first semester. MR. GIBSON, MISS LEE.

301. FIELD GEOLOGY.

An introduction to the methods of field study. The course is designed to train the student to make a topographic map, and to interpret and map the geology of a region.

³ Absent on leave for the second semester.

Open to juniors and seniors who have completed course 101, and course 202 or 207. One three-period lecture or laboratory appointment, or one afternoon in the field, with independent field work related to the student's special problem. Students registering for course 301 should keep at least one other three-period appointment available for independent work on field problems. The course counts three hours a week for the second semester.

MR. GIBSON.

306. PALEONTOLOGY. (Not given in 1934-35.)

The course deals with the facts and problems of organic evolution, as revealed by the life of past geologic ages. By means of a study of fossils, the steps in the development from simple, generalized life forms to more complex and specialized types are traced. The effects of physical environment upon life development are emphasized.

Open to juniors and seniors who have completed Geology 101 and either Zoölogy 101 or Botany 101 or a course of grade II in Geology. Juniors and seniors majoring in Zoölogy may be admitted to the course upon the recommendation of the two departments. Two two-period appointments for lectures, class discussion, and laboratory work, with independent laboratory assignments, counting three hours a week for the first semester.

MISS KINGSLEY.

311. ECONOMIC GEOLOGY.

A study of the origin, composition, and location of economically valuable mineral deposits. The lectures and readings are directed toward familiarizing the student with both metallic and non-metallic mineral deposits in their general mineralogical and geological relations.

Open to juniors and seniors who have completed course 202. One three-period appointment and an additional one-period appointment. In general, two periods will be used for lecture or discussion and two for laboratory work. The course counts three hours a week for the first semester.

MR. GIBSON, MISS KINGSLEY.

312. CRYSTALLOGRAPHY. (Not given in 1934-35.)

The course deals mainly with optical crystallography and the application of optical crystallography to the study of minerals. The laboratory work consists of the determination of minerals by means of their optical constants.

Open to juniors and seniors who have completed Geology 202. Juniors and seniors majoring in Chemistry or in Physics may be admitted to the course upon the recommendation of the two departments concerned. Two two-period appointments a week for lecture and laboratory work, counting three hours a week for the second semester.

MISS KINGSLEY.

313. PETROGRAPHY. (Not offered in 1934-35.)

This course includes the identification of rocks by means of a study of thin sections with the petrographical microscope, and aims to give the student an elementary knowledge of the origin and composition of rocks.

Open to juniors and seniors who have completed courses 207 and 312. Two two-period appointments a week for lecture and laboratory work, counting three hours a week for the second semester.

MISS KINGSLEY.

321. PROBLEMS IN GEOLOGY. (Not given in 1934-35.)

This course is designed to give students training in independent investigation. Individual problems are assigned and reports to the instructor are made at regular intervals.

Open to graduate students and by permission to seniors who are majoring in Geology. Three hours a week for a semester or for a year. MR. GIBSON.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

Open by permission of the department to juniors and seniors who are majoring in the department. Three hours a week for a semester or for a year.

GEOGRAPHY

208. THE GEOGRAPHY OF EUROPE.

A study of man's adjustment to physical environment in Europe. Topography, climate, and other environmental factors are studied in their relation to human development in that continent. The study makes clear how environmental features help to explain the early rise of civilization in Europe, the distribution of races and languages, the origin of the present political units, and the economic development of Europe as a whole. Certain nations of major interest to American students are given further detailed study.

Open to juniors and seniors, and to sophomores who have completed course 101 or who are majoring in History. Three hours a week for the first semester.

MISS PARKER.

209. THE ECONOMIC GEOGRAPHY OF NORTH AMERICA.

A study of man's economic activities as related to environmental factors in the major geographic regions of North America. The objective of the course is to develop a clear conception of the elements of the natural environment, such as climate, topography, soils, surface and underground waters, mineral resources, native vegetation, and to emphasize in the regions studied the important adjustments which man has made to these elements.

Open to juniors and seniors, and to sophomores who have completed course 101 or who are majoring in History. Three hours a week for the second semester.

MISS LANIER.

304. THE GEOGRAPHY OF SOUTH AMERICA.

A study of the physiographic features, climates, and resources of South America; the influence of these factors upon the colonization of the continent by Europeans, upon the formation of independent political units, and upon the present and possible future economic development of the various countries.

Open to juniors and seniors who have completed course 101 and a course of grade II in the department; by permission to students of South American history. Three hours a week for the second semester.

MISS LANIER.

307. THE HISTORICAL GEOGRAPHY OF THE UNITED STATES.

An analysis of the relations between the natural environment and the settlement and development of the country. The adjustments to varied environments in connection with the westward expansion of the American people. An interpretation in selected areas of readjustments made from time to time in response to the changing significance of some element or elements in the environment. A geographic background to American history.

Open to juniors and seniors who have completed course 209, and by permission to students of American history. Three hours a week for the first semester.

MISS LANIER.

308. PROBLEMS IN THE GEOGRAPHY OF EURASIA.

A geographic study of selected regions of the Eurasian continent (exclusive of countries given detailed treatment in course 208). Students will interpret independently in so far as possible the human response to physical environment in each region. The course gives opportunity to apply independently geographic principles developed in earlier regional courses, as well as to gain familiarity with new territory and to study interesting contrasts between oriental and western civilization.

Open to juniors and seniors who have completed course 208. Three hours a week for the first semester.

MISS PARKER.

309. CLIMATES OF THE WORLD. (Not given in 1934-35.)

A course designed to give an understanding of the major types of climate and of their distribution in the several continents; to show the significance of climate as a factor in the economic activities of a region and in the trade between different regions.

Open to juniors and seniors who have completed at least one regional course in geography. Three hours a week for the second semester.

MISS LEE.

305. SEMINAR IN GEOGRAPHY. (Not offered in 1934-35.)

The course begins with a study of the methods of individual research. Early in the course a selected topic is assigned to each student for investigation and reports of the individual work are presented weekly.

Open to graduate students and to approved seniors. Three hours a week for the second semester.

MISS PARKER.

350. RESEARCH OR INDIVIDUAL STUDY.

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies.

Open by permission of the department to juniors and seniors who are majoring in the department. Three hours a week for a semester or for a year.

DIRECTIONS FOR ELECTION

Students who are planning to major in Geology are advised to take Chemistry. Those who wish to major in Geography will find this work correlates well with work in History or Economics.

The following sequences for work in the department are recommended:

1. For a twelve-hour major in *Geography*. Courses 101, 208, 209, and six hours of grade III work selected from the group 304, 307, 308, 309 and 305.
2. For a twelve-hour major in *Geology*. Courses 101, 202, 207, and six hours of grade III work selected from the group 301, 311, 312, 313, 306, and 321.
3. A combined major in Geology and Zoology may be arranged in consultation with these departments.
4. By permission of the department, three hours of closely correlated work in History will be accepted as part of a twelve-hour major in Geography.

GENERAL EXAMINATION

A major offered for the general examination in Geology or in Geography must include course 101.

Some questions based upon the fundamental work given in course 101 will be required both of students majoring in Geology and those majoring in Geography. With this exception, entirely different examinations will be set for the two groups. Some choice of questions will be possible. The questions will involve correlation and interpretation of material, and the application of general principles to specific cases.

The department will suggest supplementary summer reading for those students who desire such assistance.

GERMAN

<i>Professor:</i>	NATALIE WIPPLINGER, Ph.D. (Chairman)
<i>Associate Professor:</i>	MARIANNE THALMANN, Ph.D.
<i>Lecturer:</i>	MELITTA GERHARD, Ph.D.
<i>Instructors:</i>	JOHANNA ELISABETH VOLBEHR. DORIS ELIZABETH RICH, M.A. BARBARA SALDITT, Ph.D. MARGARET JEFFREY, Ph.D.

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German.

A limited number of qualified students are permitted to spend the junior year in Munich.

*101. ELEMENTARY COURSE. GRAMMAR, READING, ORAL AND WRITTEN EXERCISES.

The texts used in this course are made the basis for a study of grammatical forms and rules, for speaking exercises and composition work. Frequent written exercises are required.

Open to students who do not present German for admission. Three hours a week for a year.

MRS. VOLBEHR, MISS RICH, MISS SALDITT,
MISS JEFFREY.

*102. ELEMENTARY COURSE. READING, FREE REPRODUCTION, WRITTEN AND ORAL EXERCISES, SHORT THEMES; MEMORIZING OF POEMS.

The methods are the same as in course 101. In connection with the reading, special attention is given to the learning of the more common idioms. Several poems are memorized. Frequent written tests or short themes are required. Course 102 is intended to fit students to enter courses 201, 202.

Open to students who have completed course 101 or present two units in German for admission. Three hours a week for a year. MISS THALMANN, MISS GERHARD, MRS. VOLBEHR, MISS SALDITT, MISS JEFFREY.

*104. OUTLINE HISTORY OF GERMAN LITERATURE.

The object of this course is to furnish the student with the vocabulary necessary for the reading and discussion of literature, and to give her a general historical background for the more detailed study of German literature in subsequent courses.

Open to freshmen who present three units in German for admission. Three hours a week for a year. MRS. VOLBEHR.

202. HISTORY OF GERMAN LITERATURE.

First semester: discussions, reading, and occasional lectures on the history of German literature before Goethe. The aim is to trace the parallel development of literature, social conditions, and religious ideals of the times. Works read and discussed are: the *Hildebrandslied*, selections from the *Nibelungenlied*, the works of Wolfram, Gottfried, Hartmann, the Minnesingers; *Volkslied*, selections from Luther, Hans Sachs. Second semester: the classical period in German literature, with special emphasis on Lessing, Herder, Schiller, Goethe.

Open to students who have completed course 102. Three hours a week for a year. MISS WIPPLINGER, MISS SALDITT, MISS JEFFREY.

204. SCHILLER'S LIFE AND WORKS.

(Introductory Course.) Lectures, discussions. Study of Schiller's life and some of his important dramatic works. Texts: *Die Räuber* (Cotta); *Wallenstein* (Carruth); Schiller's *Gedichte* (Cotta); Schiller's *Briefe* (Kühnemann). Occasional themes.

Open to students who have completed courses 104 or 202. Three hours a week for the first semester. MISS THALMANN, MISS GERHARD.

205. GOETHE'S LIFE AND WORKS.

(Introductory Course.) Lectures, discussions. Study of the principal characteristics of Goethe's life and works to the time of his literary co-operation with Schiller. Works discussed in class: *Götz von Berlichingen*, *Werther*, *Iphigenie*, *Egmont*, selected poems. Interpretation of "Storm and Stress" in connection with *Götz*, of German classicism in connection with *Iphigenie*. Supplementary discussion of Goethe's *Briefe* (Langewiesche), *Dichtung und Wahrheit*, Bielschowsky's *Goethe*, Euripides' *Iphigenie*. Occasional themes.

Open to students who have completed courses 104 or 202. Three hours a week for the second semester. MISS WIPPLINGER, MISS SALDITT.

206. CONVERSATIONAL GERMAN.

Modern German works are read and discussed. Talks in German based on material used in other college courses or found in current German magazines are prepared and given by members of the class.

Open to students who have completed courses 102 and 104, or on special recommendation to those who have completed course 101. One hour a week for a year.

MISS GERHARD, MRS. VOLBEHR.

207. ADVANCED CONVERSATIONAL GERMAN.

The same method used as in 206. More difficult reading material used.

Open to students taking other work in German, who have completed courses 202 and 206, and by special permission to those who have completed course 104. One hour a week for a year.

MRS. VOLBEHR.

301. GERMAN NOVEL.

Historical development of the German novel since Goethe.

Open to juniors and seniors who have completed or are taking three hours of grade II. Three hours a week for the first semester.

MISS THALMANN.

302. HISTORY OF THE GERMAN LANGUAGE.

This course aims to give a fuller and more thorough understanding of modern German through the study of its historical development.

Open to juniors and seniors who have completed three hours of grade II. Three hours a week for the second semester.

MISS JEFFREY.

303. MIDDLE HIGH GERMAN. (Not offered in 1934-35.)

(Introductory Course.) Survey of Middle High German forms and sounds. Translation of Middle High German epic and lyric poetry into the modern idiom.

Open to juniors and seniors who have completed at least three hours of grade II. Three hours a week for the second semester.

304. GOETHE'S FAUST, PART I.

Study of the pre-Goethean development of the Faust legend in its more important literary forms. Close study of the text of Goethe's *Faust*, Part I. Collateral readings and reports on the relation of the poem to Goethe's life and times. Part II will be treated in a few final lectures. Frequent tests.

Open to juniors and seniors who have completed courses 204, 205. Three hours a week for the first semester.

MISS WIPPLINGER.

305. THE GERMAN ROMANTIC SCHOOL.

A study of the development and spirit of the German Romantic School.

Open to juniors and seniors who have completed course 304. Three hours a week for the second semester.

MISS WIPPLINGER.

306. LESSING AS DRAMATIST AND CRITIC. (Not offered in 1934-35.)

Treatment of Lessing's critical work in literature, theology, and æsthetics.

Open to juniors and seniors who have completed course 304. Three hours a week for the second semester.

MISS SALDITT.

307. GOETHE, ADVANCED COURSE.

(Seminary Course.) Study of Goethe's lyrics, ballads, later dramas, parts of *Faust* II, and other works. Collateral reading in the *Goethe Jahrbuch*, and from Eckermann, Gräf, Harnack, and others. Consideration of Goethe's relation to other literatures, and as art-critic.

Open to seniors who have completed course 304. Three hours a week for the first semester. MISS WIPPLINGER.

308. NINETEENTH CENTURY DRAMA.

Special study of Kleist, Grillparzer, Hebbel, Ibsen, Hauptmann, Schnitzler, Hofmannsthal, Strindberg, Wedekind; their relation to classic and romantic art, and to the social and philosophical problems of the century.

Open to seniors who have completed course 304. Three hours a week for the second semester. MISS THALMANN.

309. SCHILLER AS PHILOSOPHER AND WRITER ON ÆSTHETICS. (Not offered in 1934-35.)

(Seminary Course.) Study of Schiller through his correspondence with Körner, Goethe, etc., and through his philosophic poems and essays.

Open to seniors who have completed course 204 and at least three hours of grade III. Three hours a week for the first semester.

310. GOTHIC. (Not offered in 1934-35.)

Open to graduates and to seniors by permission of the instructor. Three hours a week for the second semester.

311. GERMAN LYRIC POETRY IN THE NINETEENTH AND TWENTIETH CENTURIES. (Not given in 1934-35.)

Open to juniors and seniors who have completed or are taking three hours of grade II. Three hours a week for the second semester. MISS THALMANN.

350. RESEARCH OR INDIVIDUAL STUDY.

Open to graduate students, and, by permission, to approved seniors. Three hours a week for a semester or for a year.

DIRECTIONS FOR ELECTION

I. For students who begin German in college.

First Year: Course 101.

Second Year: Course 102.

Third Year: Courses 202, 206.

Fourth Year: Courses 204, 205, 207, 301, 311, 302.

II. For students who offer the Two Unit Requirement.

First Year: Course 102.

Second Year: Courses 202 and 206.

Third Year: Courses 204, 205, 207, 301, 302, 311. Students may not omit 204 and 205 except by permission from the chairman of the department.

Fourth Year: Courses 304, 305, 307, 308, 207, 301, 311.

III. For students who offer the Three Unit Requirement.

First Year: Course 104.

Second Year: Courses 204, 205, 206. Students may not omit 204, 205 except by permission from the chairman of the department.

Third Year: Courses 207, 304, 302, 305, 301, 311.

Fourth Year: Courses 302, 304, 305, 307, 308, 301, 311.

The major is based on courses 104 or 202. Students planning to major in German are advised to take courses in Philosophy, Mediæval History, and English and French Literature.

Students intending to teach German will be recommended by the department only on condition that they have taken from three to six hours of grade III and in addition course 207.

GENERAL EXAMINATION

The questions for the general examination will be on the following four groups:

- (1) The general history of German literature.
- (2) The period of Goethe and Schiller.
- (3) Rationalism or Romanticism.
- (4) Nineteenth century literature.

Every student will be expected to answer questions from group one. The selection of questions on the other groups will depend on the work the student has done in the department. Knowledge of grammar and ability to use idiomatic German will be considered in judging the answers.

GREEK

Associate Professor: HELEN HULL LAW,¹ PH.D.
Assistant Professor: BARBARA PHILIPPA McCARTHY, PH.D. (Chairman)
Instructor: MARGARET ELIZABETH TAYLOR, PH.D.

*101. BEGINNING GREEK.

The aim of the course is to cover in one year the fundamental facts of Greek grammar with practice in reading and writing. The text-book is Crosby and Schaeffer's *An Introduction to Greek*. The Greek reading includes selections from the great writers of prose and poetry.

Open to students who do not present Greek for admission. Three hours a week for a year. MISS McCARTHY, MISS TAYLOR.

*201. PLATO.

Apology, Crito and selections from other dialogues.

Open to students who have completed course 101 or present two or three units in Greek for admission. Three hours a week for the first semester. MISS TAYLOR.

*205. HOMER.

Selected books of the *Iliad*.

Open to students who have completed courses 101 and 201 or present two units in Greek for admission and have completed course 201, and to others on recommendation of the department. Three hours a week for the second semester.

MISS McCARTHY, MISS TAYLOR.

*202. HOMER.

Selected books of the *Odyssey* or other material selected to meet the needs of the class.

¹ Absent on leave.

Open to students who present three units in Greek for admission and have completed course 201, and to those who have completed course 205. Three hours a week for the second semester.
MISS TAYLOR.

203. GREEK LITERATURE IN ENGLISH TRANSLATIONS.

The class will read in translation selections from the works of the Greek poets, from Homer to Theocritus. Lectures on the development of Greek literature and class discussions will accompany the reading. Special emphasis will be placed upon Greek drama, and as many plays as possible will be read and studied. This course may not be counted toward a major in Greek.

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

MISS TAYLOR.

204. CLASSICAL MYTHOLOGY.

The more important myths of the classical period will be studied in relation to the literature, art, and religion of ancient times and their influence on the literatures of succeeding periods. This course may not be counted toward a major in Greek.

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

MISS TAYLOR.

206. WRITING OF GREEK.

Review of the essentials of grammar and syntax. Written exercises based on prose selections to be read at sight in class.

Open to students who have completed course 101 and are taking another course in the department other than courses 203 and 204. Three hours a week for the first semester.

MISS MCCARTHY.

301. GREEK DRAMA.

Reading and study of dramas of Æschylus, Sophocles, Euripides and Aristophanes.

Open to students who have completed course 201 and either course 205 or 202. Three hours a week for a year.

MISS MCCARTHY.

302. GREEK POETRY FROM HOMER THROUGH THEOCRITUS.

This course includes epic, elegiac, lyric, and pastoral poetry.

Open to students who have completed or are taking course 301. By permission of the department students may elect either semester of course 302 as a semester course. Three hours a week for a year.

MISS MCCARTHY.

305. MODERN GREEK. (Not given in 1934-35.)

The course will trace briefly the development of the language to the present time with practice in speaking and writing the Greek of today.

Open to students who are taking another course of grade III in the department, and to others by permission of the department. One hour a week for a year.

MISS MCCARTHY.

307. GREEK HISTORIANS. (Not offered in 1934-35.)

Rapid reading from the histories of Herodotus and Thucydides.

Open to students who have completed course 301. Three hours a week for the first semester.

308. PLATO. (Not given in 1934-35.)

The study of Plato's philosophy with reading in Greek from the *Republic*, *Symposium*, *Phaedrus*, and other dialogues.

Open to students who have completed course 301. Three hours a week for the second semester.

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

DIRECTIONS FOR ELECTION

Courses 320 and 321 in Art may be counted toward a major in Greek by students taking at the same time a course of grade III in Greek.

All courses in the department may be counted for the major except 203 and 204. Students who began Greek in college and are planning to take a general examination in Greek should elect either 302 or 307 and 308; those who entered with Greek, 302, 307 and 308.

GENERAL EXAMINATION

The general examination in Greek will include passages for sight translation with questions on language and syntax. Students will be expected to show an acquaintance with the origin, development and characteristics of the various types of literature studied together with the background of history, religion, and myth. The student should make a special effort to grasp the distinguishing characteristics of Greek civilization as shown in its literature.

GROUP LEADERSHIP

Professor: ALFRED DWIGHT SHEFFIELD, M.A.

201. LEADERSHIP IN ORGANIZED GROUPS.

A study of the processes of thought and expression by which clubs, conferences, and committees deal with current problems in the community. The work will be based partly on the records of group experience in Christian Associations, civic and philanthropic boards, industrial joint councils, and adult education projects, partly on guided observations of current organizational procedures, and partly on readings in social psychology. There will be written analyses of typical situations, with attention to points where adjustment calls for skill in dealing with fixed ideas, prejudices, and other emotional factors. Occasional brief papers in both semesters, with examination for the first semester and final paper for the second.

Open to seniors, and to juniors and sophomores who have completed, or are taking, Economics 101 or a course of grade I in History or Political Science. Three hours a week for a year.

MR. SHEFFIELD.

HISTORY AND POLITICAL SCIENCE

<i>Professors:</i>	JULIA SWIFT ORVIS, PH.D. ELISABETH HODDER, PH.D. (Chairman) EDNA VIRGINIA MOFFETT, PH.D. EDWARD ELY CURTIS, PH.D.
<i>Associate Professors:</i>	BARNETTE MILLER, ¹ PH.D. JUDITH BLOW WILLIAMS, PH.D. LOUISE OVERACKER, PH.D.
<i>Visiting Lecturers:</i>	GROVER CLARK, M.A.
<i>Instructors:</i>	MARGARET WINSLOW HALL, PH.D. ELIZABETH RUNKLE, M.A.
<i>Assistant:</i>	DOROTHY KNEELAND CLARK, M.A.

HISTORY

*101. MEDIÆVAL AND RENAISSANCE EUROPE.

Beginning with a discussion of Rome's legacy to Europe, this course includes the study of such topics as the Mediæval Church, feudal society, Mohammedanism and the Crusades, mediæval towns and guilds, the development of commerce and banking, the intellectual awakening of the thirteenth century, the Renaissance of Art and Literature, the age of exploration and early colonization, the Protestant movement, and the foundation of modern European nations.

Open to all undergraduates. This course or course 102 is prerequisite to later election. Three hours a week for a year.

MISS ORVIS, MRS. HODDER, MISS MOFFETT, MISS HALL.

*102. MODERN EUROPEAN HISTORY.

After a survey of conditions in the second half of the seventeenth century, this course will trace the leading movements in the development of modern Europe, such as French and English colonial expansion in the eighteenth century, the Industrial Revolution, the French Revolution, the Liberal and Nationalist movements of the nineteenth century, the emergence of the modern British Empire, the unification of Italy and Germany, and the Great War.

Open to all undergraduates. This course or course 101 is prerequisite to later election. Three hours a week for a year.

MISS WILLIAMS, MISS HALL, MR. CLARK.

201. HISTORY OF EUROPE SINCE THE FRENCH REVOLUTION.

An introductory survey of the French Revolution and the Napoleonic Era is followed by a discussion of the political development of France, Germany, Austria, Italy, and Russia from 1815 to the present.

Open to sophomores, juniors, and seniors who have completed one full course in History. Three hours a week for a year.

MISS ORVIS.

203. THE HISTORY OF GREECE.

This course will open with a brief survey of the oriental civilizations by which the Greeks were influenced. A study of the social, economic, and political development of the Greek State will follow, and with this as a foundation Greek civilization in its most significant aspects will be considered.

Open to students who have completed one college course in History and, without prerequisites, to those who are giving special attention to the Classics. Three hours a week for a year.

MRS. HODDER.

¹ Absent on leave.

204. HISTORY OF ROME. (Not offered in 1934-35.)

This course offers a general survey of Roman History. The conclusions of modern archæologists and historians with regard to the earlier period are studied, but the main emphasis is placed upon Rome's experiments in government, the attempts of her statesmen to solve the social and economic problems of the Republic, and the Empire, and upon the development of Rome's legacy to the modern world.

Open to sophomores, juniors, and seniors who have completed one college course in History, and without prerequisite to those who are giving special attention to Latin, Greek, or Economics. Three hours a week for a year. MRS. HODDER.

205. COLONIAL AMERICA.

This course deals with the foundation and growth of the British Empire in America. Emphasis is laid upon British colonial policy and administration, and upon the causes and course of the American Revolution. Lectures, discussions, and library readings.

Open to sophomores, juniors, and seniors who have completed or are taking a full course in History. Three hours a week for the first semester. MR. CURTIS.

207. GEOGRAPHY IN EUROPEAN HISTORY. (Not offered in 1934-35.)

This is not a course in Geography, but in History. Emphasis, however, is laid on geographical setting, and on the influence of Geography on national boundaries, governmental development, economic independence, trade relations, and the life and culture of the people within certain areas.

Open to seniors without prerequisite, and to other students who have completed or are taking one full course in History, or Geography 208. Three hours a week for the first semester. MISS MOFFETT.

208. INTERNATIONAL POLITICS: THE NEAR EAST. (Not offered in 1934-35.)

A general view of international relations in the Near East since the Congress of Berlin, with special reference to treaty settlements since 1918, and to present conditions.

Open to students who have completed one full course in History. Three hours a week for the first semester. MISS MILLER.

209. POLITICAL HISTORY OF RUSSIA FROM THE EARLIEST TIMES TO THE PRESENT. (Not offered in 1934-35.)

This course includes a study of (1) the forces which made Russia a world power, (2) the development and policy of the autocracy, and (3) the struggle for freedom, culminating in the revolution of 1917, and (4) the existing régime.

Open to all seniors, and to juniors who have completed or are taking another course in History. Three hours a week for the first semester. MISS ORVIS.

210. MEDIÆVAL LIFE AND INSTITUTIONS.

The aim of the course is to show the points of contact and of difference between the modern spirit and the mediæval, as well as to serve as a background for the study of modern history, or of mediæval art or literature. A few mediæval sources are read.

Open to students who have completed one full course in History. Three hours a week for a year.
MISS MOFFETT.

213. HISTORY OF ENGLAND AND GREATER BRITAIN.

A general survey of English History with especial emphasis upon those political, social, and economic forces which have led to the expansion of England and to the position and problems of the British Empire of today.

Open to sophomores, juniors, and seniors who have completed one full course in History. Three hours a week for a year.
MISS WILLIAMS.

214. THE RISE OF THE LATIN-AMERICAN REPUBLICS.

After surveying the exploration and conquest of the New World by the Spaniards, this course treats Spanish colonial policy with a view to explaining the causes of the revolutionary movement. The latter part of the course is devoted to the wars of liberation and the emergence of the present republics.

Open to students who have completed one full course in History. Also open without prerequisite to sophomores, juniors, and seniors who are majoring in Spanish, and to students who have completed or are taking Geography 304. Three hours a week for the second semester.
MR. CURTIS.

215. INTERNATIONAL POLITICS: THE FAR EAST.

A study of the Orient in the nineteenth and twentieth centuries, with special reference to the politico-economic interests of Europe and America.

Open to students who have completed one full course in History. Three hours a week for the first semester.
MR. CLARK.

301. HISTORY OF THE UNITED STATES FROM 1787 TO THE PRESENT TIME.

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 effect of the development of the West. Lectures, discussions, and library readings.

Open to juniors and seniors who have completed one full course and have completed or are taking a second course in History. Three hours a week for a year.
MR. CURTIS.

302. EUROPE IN RENAISSANCE AND REFORMATION. (Not offered in 1934-35.)

A study of the intellectual, religious, and social life of the fifteenth and sixteenth centuries. In the first semester the Renaissance in Italy and France is emphasized, and in the second semester the Reformation and the Age of Elizabeth.

Open to juniors and seniors who have completed two full courses in History, or one course in History and two courses in Art. Three hours a week for a year.
MISS MOFFETT.

304. ENGLAND UNDER THE TUDORS AND STUARTS.

This course deals with the Renaissance and Reformation in England, with Puritanism and the accompanying democratic ideals, with the constitutional struggles of the sixteenth and seventeenth centuries, and with those social and economic changes that were initial to the founding of the British Empire.

*Open to juniors and seniors who have completed two full courses in History.
Three hours a week for a year.* MRS. HODDER.

305. DIPLOMATIC HISTORY OF EUROPE SINCE 1740.

This course includes (1) a review of the period 1648-1740; (2) the age of Frederick the Great; (3) a survey of the Revolutionary and Napoleonic period; (4) the age of Bismarck and its results; (5) the World War and its consequences.

*Open to juniors and seniors who have completed two full courses in History.
Three hours a week for a year.* MISS ORVIS.

306. ENGLISH HISTORY IN THE NINETEENTH CENTURY.

After a survey of conditions in England in the latter half of the eighteenth century, this course will study the political, social and intellectual history of England in the nineteenth century, with special emphasis upon Victorian England. It will conclude with a short discussion of recent problems.

*Open to juniors and seniors who have completed two full courses in History.
Three hours a week for a year.* MISS WILLIAMS.

307. AMERICAN FOREIGN RELATIONS.

This course deals with the most significant diplomatic problems which have arisen as the result of war, westward expansion, the growth of foreign commerce, immigration, and the acquisition of colonial possessions. The origin of important treaties, the development of the Monroe Doctrine, and the evolution of the United States into a world power will be traced. Lectures and library readings.

*Open to juniors and seniors who have completed two full courses in History.
Three hours a week for a year.* MR. CURTIS.

308. IMPERIALISM IN WORLD POLITICS. (Not offered in 1934-35.)

A study of European expansion in Asia, Africa, and the Islands of the Pacific in the nineteenth and twentieth centuries; of colonial and imperial systems and problems; and of international politics as related to the control of raw materials, international finance, and imperial communications.

*Open to juniors and seniors who have completed two full courses in History.
Three hours a week for a year.* MISS MILLER.

309. SELECTED STUDIES IN MEDIÆVAL HISTORY.

The course is designed to give training in methods of historical research, using the mediæval period as a field.

Open to graduates, seniors, and approved juniors who have completed two full courses in History. Three hours a week for a year. MISS MOFFETT.

311. SOCIAL AND CULTURAL HISTORY OF EUROPE. (Not offered in 1934-35.)

A course in the evolution of civilization, tracing the development of culture from early times through the rise of the Mediterranean civilizations, the Middle Ages, the Renaissance, and modern times, and covering the more important phases of social, economic, and intellectual life.

*Open to juniors and seniors who have completed two full courses in History.
Three hours a week for a year.* MISS WILLIAMS.

350. RESEARCH OR INDIVIDUAL STUDY.

By consultation with the department students may arrange for from one to three hours of individual work. Permission for this must be obtained before handing in electives.

Open to juniors and seniors who have completed or are taking a course of grade III in the department. One to three hours a week for a year. The amount of work contemplated must be indicated at the time at which electives are due.

POLITICAL SCIENCE

*104. INTRODUCTION TO POLITICAL SCIENCE.

Fundamental political conceptions developed through a study of the governments of the United States, Great Britain, France, Germany, Italy, and Russia.

Open to sophomores, juniors, and seniors without prerequisite, and to freshmen by permission of the Dean of Freshmen. This course is a prerequisite for all other courses in Political Science. Three hours a week for a year.

MISS OVERACKER, MISS RUNKLE.

211. POLITICAL PARTIES AND ELECTORAL PROBLEMS.

The nature of political parties; party organization; the "spoils system"; nominating methods, party finance and campaign methods; public opinion and party leadership; party reform and reconstruction.

Open to juniors who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the first semester.

MISS OVERACKER.

212. PUBLIC ADMINISTRATION.

A study of the administrative aspects of modern government with special emphasis upon municipal problems: problems of organization and structure; the appointment, promotion, and dismissal of public employees; the city manager as a new type of public official; special consideration of selected phases of administration, including police, health, finance, and city planning.

Open to juniors who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the second semester.

MISS OVERACKER.

216. INTERNATIONAL ORGANIZATION.

The development of international organization and a study of the present organization and activities of the League of Nations, the Permanent Court of International Justice, and the International Labor Office.

Open to juniors who have completed course 104 and to seniors who have completed or are taking course 104. Three hours a week for the first semester.

MISS RUNKLE.

312. THE CONSTITUTION OF THE UNITED STATES.

A study of the constitution as a governmental mechanism, with special emphasis upon its interpretation by the Supreme Court. The process of amendment, problems of citizenship, the separation of powers, the distribution of powers

between the national government and the states, the Supreme Court and social legislation will be considered.

Open to juniors and seniors who have completed or are taking a course of grade II in Political Science. Three hours a week for the first semester.

MISS OVERACKER.

313. INTERNATIONAL LAW.

Nature and scope of international law and its relation to municipal law; the rights and duties of states in peace and war; international law and the League of Nations; international law and the World Court.

Open to juniors and seniors who have completed course 104 and a course of grade II in Political Science, History, or Economics. Three hours a week for the second semester.

MISS RUNKLE.

314. CURRENT POLITICAL PROBLEMS.

Each year some one problem will be taken for intensive study through the media of newspapers and periodicals. Oral reports will be required at frequent intervals; a final paper.

Open to a limited number of juniors, seniors, and graduate students specializing in Political Science, Economics, or History, who have completed courses 104 and 211. Three hours a week for the second semester.

MISS OVERACKER.

317. LAW AND THE ADMINISTRATION OF JUSTICE. (Not offered in 1934-35.)

The nature, sources, and sanction of law; fundamental principles of English and American jurisprudence; the organization of the courts; the judicial process; the jury system.

Open to juniors who have completed a course of grade II in Political Science and to seniors who have completed or are taking a course of grade II in Political Science. Three hours a week for the first semester.

MISS OVERACKER.

350. RESEARCH OR INDIVIDUAL STUDY. (Not offered in 1934-35.)

By consultation with the department, students may arrange for from one to three hours of individual work in political science.

Open to seniors who have completed or are taking a course of grade III in Political Science. Three hours a week for the first semester.

MISS OVERACKER.

DIRECTIONS FOR ELECTION

Students electing History may choose either of the introductory courses 101 or 102. A major in Political Science is based on course 104. The only other restrictions are those required by the prerequisites stated for each course. Students desiring to take the general examination in History are advised, however, to seek the advice of the chairman and other members of the department in order to insure a proper correlation of courses.

The courses are designed to help the student to acquire methods of historical work, and to furnish a basis for the more detailed study of particular periods.

Courses in Political Science may not be included in a major in History, and

courses in History may not be included in a major in Political Science without the special permission of the department.

Students may take their general examination in History or in Political Science, and these subjects may be combined in the twenty-one hours of restricted elective work.

The courses in Political Science are arranged to meet the needs of three groups of students: those intending to do graduate work in Political Science or Law; those desiring to supplement their work in History, Economics, or Sociology with a knowledge of Political Science; students in other fields who wish to be prepared to take an intelligent part in the political activities of their communities after college.

The department will advise candidates for honors in regard to their fields of special study and will direct their work.

Students proposing to teach history are advised to take at least four courses in the department.

By permission of the department three hours of closely correlated work in Geography will be accepted as part of a twelve-hour major in History.

By special permission certain courses of grade III in Economics and Sociology may be counted toward a major in Political Science.

Students are urgently advised to consult with the department before deciding upon the courses to constitute a major in History.

GENERAL EXAMINATION

The purpose of the general examinations in History and in Political Science is to test:

(1) General knowledge of the subject-matter of the courses composing the major.

(2) Ability to analyze, correlate, and compare the subject-matter of these courses.

(3) Power to judge and appraise movements and personalities.

The general examination will not assume a knowledge of fact outside the subject-matter of the separate courses.

HYGIENE AND PHYSICAL EDUCATION

<i>Professors:</i>	EUGENE CLARENCE HOWE, Ph.D. RUTH ELLIOTT, Ph.D. (Chairman)
<i>Health Officer:</i>	MARY FISHER DEKRUIF, M.D.
<i>Assistant Professors:</i>	CHARLOTTE GENEVIEVE MACEWAN, M.S. ELIZABETH BEALL, M.A.
<i>Instructors:</i>	MARGARET JOHNSON. FANNY GARRISON, B.A. MARION ISABEL COOK, M.A. HARRIET LUCY CLARKE, B.A. KATHARINE FULLER WELLS, M.S. MARY ELIZABETH POWELL, M.S. JEAN HELEN HARRIS, M.S. ELINOR MARIE SCHROEDER, M.A.
<i>Recorder:</i>	MARION DOROTHY JAUQUES, B.A.
<i>Secretary:</i>	ANNA ELIZABETH ANDERSON.
<i>Special Lecturers:</i>	WILLIAM RUSSELL MACAUSLAND, M.D. LECTURER ON ORTHOPEDICS. ANDREW ROY MACAUSLAND, M.D. LECTURER ON ORTHOPEDICS. LORETTA S. CUMMINS, M.D. LECTURER ON HYGIENE OF THE SKIN. HILBERT F. DAY, Ph.B., M.D., F.A.C.S. LECTURER ON PREVENTIVE SURGERY. MARY FISHER DEKRUIF, M.D. LECTURER ON HEALTH PROBLEMS. LEIGHTON JOHNSON, M.D. LECTURER ON HYGIENE OF NOSE AND THROAT. SAMUEL R. MEAKER, M.D. LECTURER ON HYGIENE OF MENSTRUATION AND OTHER GYNECOLOGICAL PROBLEMS. ABRAHAM MYERSON, M.D. LECTURER ON MENTAL HYGIENE. WILLIAM EMERSON PREBLE, B.A., M.D. LECTURER ON INTERNAL MEDICINE.

I. UNDERGRADUATE COURSES

The Department of Hygiene and Physical Education aims to build up in each student sufficient strength and vitality to meet the demands of a normally active life; to encourage an appreciation and maintenance of fundamental health habits; to develop poise, a habit of normal unstrained carriage, a sense of rhythm, coordination and motor judgment—to enable her to handle herself confidently in any situation; to develop skill and permanent interest in wholesome recreational activities adapted to individual needs and capacities; to awaken in her a sense of self as a vital, responsible part of a group and the necessity for both harmony and individuality in effective group work; in short, the Department aims to help each girl to adapt herself efficiently and happily to the demands made upon her by modern life.

Two hours in Hygiene and Physical Education are prescribed for the degree. One hour is met by course 120, Personal Hygiene; the second hour is met by two periods per week of physical education activities during freshman and sophomore years. Each of the two years' work is divided into Fall and Spring sport seasons, and the Winter or indoor season.

All student choices for sports or winter work are subject to the approval of the department on the basis of the results of the medical and physical examinations, the results of the Motor Test, and the student's previous experience.

Sports: During the four sport seasons, the department requires that students take one season of a team sport; two seasons of an individual sport; and the 4th season either an individual or a team sport. If a student can demonstrate fair skill in an individual sport, or if she has a Life Saving Certificate, she may substitute team sports for individual sports.

Winter Season: Freshmen who pass the Motor Test may elect any of the winter activities listed under 121; those who fail the Motor Test may choose between Dancing and Gymnastics. All sophomores who have completed the first year indoor work may elect any of the activities listed under 122. All electives are subject to the approval of the department.

Posture Requirement: Every student must attain a grade of at least C— on her official posture photograph before completing her requirement.

***120. PERSONAL HYGIENE.**

The aim of this course is to present the principles of personal hygiene and public health and to develop their intelligent application to the daily living of college students and members of families and communities. Personal conferences are arranged for each student.

Required of freshmen. One hour a week for a year, counting one hour toward the degree. DR. DEKRUIF, MISS COOK, MISS POWELL, MISS HARRIS.

***121.† SPORTS AND INDOOR ACTIVITIES FOR FRESHMEN.**

Choice of the following:

Fall: Archery, basket ball, golf, hockey, riding, rowing, tennis, volley ball.

Winter: Dancing, folk dancing, gymnastics, tap dancing, winter riding.

Spring: Archery, baseball, dancing (outdoor), golf, lacrosse, outdoor games, riding, rowing, tennis.

Required of freshmen, two periods a week for a year, counting one-half hour toward the degree. THE STAFF.

122.† SPORTS AND INDOOR ACTIVITIES FOR SOPHOMORES.

Choice of the following:

Fall: Archery, basket ball, golf, hockey, riding, rowing, tennis, volley ball.

Winter: Dancing, folk dancing, gymnastics, tap dancing, winter riding.

Spring: Archery, baseball, dancing (outdoor), golf, lacrosse, outdoor games, riding, rowing, tennis.

Required of sophomores who have completed course 121. Two periods a week for a year, counting one-half hour toward the degree. THE STAFF.

***124. INDIVIDUAL GYMNASTICS FOR FRESHMEN.**

Required of freshmen whose physical condition indicates the need of individualized gymnastics. Two hours a week in the winter, with course 121 fall and spring, counting one-half hour toward the degree. MISS WELLS AND ASSISTANTS.

125. INDIVIDUAL GYMNASTICS FOR SOPHOMORES.

Required of sophomores whose physical condition indicates the need of individualized gymnastics. Two hours a week in the winter, with course 122 fall and spring, counting one-half hour toward the degree. MISS WELLS AND ASSISTANTS.

† In addition to the regular gymnasium costume required of all students the following requirements with approximate prices should be noted: crew (\$2.65), dancing (\$3.25), tap dancing (\$3.00), individual gymnastics (\$2.65). Students are required to furnish their own individual equipment for such activities as golf, riding and tennis. Archery rental fee \$1.00. Riding \$18.00 fall or spring; \$45.00 winter. Written permission from the parents to elect riding and special permission for jumping must be filed with the Hygiene Recorder at the time of election.

126. VOLUNTARY ACTIVITIES FOR ALL STUDENTS.

Students may elect with the permission of the department any of the activities listed under courses 121 and 122.

Open to all students. Two hours a week in the fall, winter, or spring terms. Not to count toward the degree.

THE STAFF.

*131. RESTRICTED ACTIVITIES FOR FRESHMEN.

Required of freshmen whose physical condition indicates the need of restricted activities. Two hours a week in the winter, with course 121 fall and spring, counting one-half hour toward the degree.

MISS HARRIS, MISS CLARKE.

132. RESTRICTED ACTIVITIES FOR SOPHOMORES.

Required of sophomores whose physical condition indicates the need of restricted activities. Two hours a week in the winter, with course 122 fall and spring, counting one-half hour toward the degree.

MISS JOHNSON, MISS SCHROEDER.

II. COURSES FOR THE CERTIFICATE AND M.S. DEGREE IN HYGIENE AND PHYSICAL EDUCATION

The Graduate Department of Hygiene and Physical Education is organized to meet the insistent demand for women of liberal education and broad professional training in this field. Its aim is to develop skilled teachers and supervisors, not only thoroughly conversant with the existing traditional subject matter, but also prepared to contribute to the current advance in educational and scientific research and its application in teaching and organization.

A. CERTIFICATE IN HYGIENE AND PHYSICAL EDUCATION.

(1) A two years' course especially designed for the training of teachers of hygiene and physical education and leading to the Certificate of the Department of Hygiene and Physical Education is offered to graduates of approved colleges. In order to be admitted to this course candidates must be without organic disease or serious functional disorder, with a keen sense of rhythm and the ability to use the voice with ease and power. Candidates should present for admission one year of Chemistry, one year of Physics (Physics and Chemistry completed in secondary school may be accepted), one-half year of Psychology, one-half year of Education, whenever possible the equivalent of Mammalian Anatomy (Zoölogy 301 and 313) and Physiology (Zoölogy 302),† and swimming proficiency sufficient to pass Red Cross or Intercamp Life Saving Tests.

(2) A five years' course is offered leading to the B.A. degree and the Certificate of the Department of Hygiene and Physical Education. This course is open only to candidates for the B.A. degree in residence at Wellesley College. In general, students in this course receive the B.A. degree at the end of the fourth year and complete in the fifth year the work required for the Certificate. The following courses count toward the Bachelor's degree: Zoölogy 301, 313, each one hour; Zoölogy 302, Hygiene 303, each three hours.‡

B. MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION.

Graduate students who have qualified for advanced study and research, who have completed or are completing the requirements for the Certificate, and who

† See undergraduate courses in Chemistry, Physics, Psychology, Education, Zoölogy.

‡ See Bulletin of Graduate Department of Hygiene and Physical Education.

have given evidence of a reading knowledge of French or German, may register for and complete in one or two years the twelve year-hours required for the M.S. degree in Hygiene and Physical Education. ||

REQUIRED COURSES FOR FIRST-YEAR GRADUATE STUDENTS

101. GYMNASTICS.

Marching; gymnastics (fundamental, non-definite, rebounding types of exercises progressing to and through the more definite type); apparatus activities and tumbling.

Required of first-year students. Three hours a week in the fall and winter.

MISS BEALL, MISS CLARKE.

102. TEAM GAMES AND SPORTS.

Practice for skill, study of rules and of coaching methods with emphasis on individual technique; fall season—baseball, basket ball, golf, and hockey; spring season—archery, lacrosse, tennis, and track.

Required of first-year students. Eight hours a week in the fall and spring.

MISS BEALL, MR. HOWE, MISS HARRIS, MISS SCHROEDER.

104. DANCING.

Elementary rhythmic work and dramatic play for small children; folk and national dances with practice teaching; tap dancing.

Required of first-year students. Three hours a week for a year.

MISS MACEWAN, MISS BEALL.

105. DANCING.

The modern dance: elementary analysis of the mechanics of movement; fundamental technique and its application in expression; study of musical structure and content; development of simple rhythmic patterns; first principles of design; dynamics; introductory problems in improvisation and composition.

Required of first-year students. Two hours a week for a year.

MISS MACEWAN.

110. PHYSICAL EXAMINATIONS AND FIRST AID.

Purpose and technique of the physical examination, methods of recording, and the interpretation of findings. Study of first aid methods.

Required of first-year students. Two hours a week for the second semester.

MISS WELLS.

203. TECHNIQUE OF TEACHING GYMNASTICS.

Lectures and quizzes on gymnastic terminology with a survey of gymnastic material, followed by preliminary practice teaching. Thorough drill on all technical devices.

Required of first-year students. Two hours a week for a year.

MISS BEALL, MISS CLARKE.

208. PLAY ACTIVITIES.

Psychology of play; selection and adaptation of activities for different age periods. Playground management and supervision. Study, demonstration

|| See Wellesley College Graduate Circular.

and practice in methods of teaching story plays, games of low and high organization, stunts, achievement tests, and social games.

Required of first-year students. Two hours a week for a year.

MISS BEALL, MISS COOK.

212. INTRODUCTION TO THE STUDY OF PHYSICAL EDUCATION.

A brief historical survey of physical education in Europe and America is used to show the relation between aims and current practice in physical education and the social needs and political ideals of different periods. Present-day objectives are discussed and the distinctive values of type activities are suggested.

Required of first-year students. One hour a week for the first semester.

MISS ELLIOTT.

301. MAMMALIAN ANATOMY.

(Zoölogy 301—See Department of Zoölogy and Physiology.)

313. MAMMALIAN ANATOMY.

(Zoölogy 313—See Department of Zoölogy and Physiology.)

302. GENERAL PHYSIOLOGY.

(Zoölogy 302—See Department of Zoölogy and Physiology.)

303. KINESIOLOGY.

Lectures and recitations dealing with the anatomical mechanism of movements; the rôles of joint motion, muscular action, gravity, leverage, inertia, and internal resistance in the production and modification of movements and their effects. This course counts three hours toward the Bachelor's degree, or (with supplementary assignments) toward the Master's degree.

Required of first-year students. Courses 301 and 313 or their equivalents must be taken concurrently if not presented as prerequisites. Three hours a week for a year.

MISS POWELL.

REQUIRED COURSES FOR SECOND-YEAR GRADUATE STUDENTS

201. ADVANCED GYMNASTICS.

A continuation of course 101.

Required of second-year students. Two hours a week in the fall and winter.

MISS CLARKE, MISS WELLS.

202. THEORY AND PRACTICE OF SPORTS AND TEAM GAMES.

Advanced technique and tactics of team play with emphasis on methods of coaching and officiating; fall season: baseball, basket ball, hockey; spring season: golf, lacrosse, tennis.

Required of second-year students. Six hours a week in the fall and spring, with an additional hour of lecture and discussion once a week for the first semester.

MISS BEALL, MR. HOWE, MISS HARRIS, MISS SCHROEDER.

205. ADVANCED DANCING.

A continuation of course 105 with a study of adaptation for teaching purposes.

Required of second-year students. Two hours a week for the second semester.

MISS MAC EWAN.

206. TEACHING OF DANCING.

Lectures and practice. Sources, classification, selection and adaptation of material; principles of progression; analysis of methods of presentation and teaching. The course includes either participation in some phase of dance drama production, or the writing of an original dance drama or festival.

Required of second-year students. Three hours a week for the first semester.

MISS MAC EWAN.

214. SUPERVISED TEACHING.

Students assist in the college undergraduate required activities and conduct, under supervision, physical education programs in the public schools of Wellesley.

Required of second-year students. Ten hours a week for a year, exclusive of individual conferences.

MISS COOK AND THE STAFF.

304. PRINCIPLES AND PHILOSOPHY OF PHYSICAL EDUCATION.

Study and discussion of the purposes, scope, and ideals of physical education, including a detailed study of the main groups of activities usually included in a program of physical education with special reference to the selection and adaptation of the same to varying situations in the field.

Required of second-year students. Two hours a week for a year.

MISS ELLIOTT.

306. ORGANIZATION AND MANAGEMENT.

The study of procedures upon which the teaching situation depends; i.e., analysis and selection of activities, examination and grouping of pupils, testing the results of teaching, evaluation of the teacher or leader, provision of equipment, department organization. Illustrative problems are selected from those of elementary or secondary school and the college.

Required of second-year students. Two hours a week for the second semester.

MISS ELLIOTT.

309. RECONSTRUCTIVE HYGIENE.

Conditions which affect general health; application of hygiene, corrective exercise, and massage in treatment. Approximately 30 lectures in this course are given by orthopedic and medical specialists. Clinical demonstration of orthopedic material is given in the Carney Hospital, Boston, and other clinics.

Required of second-year students. Course 303 or its equivalent is prerequisite. Three hours a week for a year.

MISS WELLS, DR. MACAUSLAND, AND OTHER LECTURERS.

321. APPLIED PHYSIOLOGY.

The application of human physiology to the problems of hygiene and physical education. Functional, ability, and achievement tests, nutritional standards. The elements of statistical method and precision of measurement. Advanced

problems in nutrition and growth, fatigue, coördination and training. This course counts three hours toward the Master's degree.

Required of second-year students. Zoölogy 302 or its equivalent is prerequisite. Five periods a week; in general three of lecture and two of laboratory; counting three hours a week for a year.

MR. HOWE, MISS POWELL.

ELECTIVE COURSES

107. SWIMMING.

Instruction leading to the Red Cross certificate for Life Saving or for Life Saving Examiner.

Open to first and second-year students, and with the permission of the department to five-year students. Ten lessons during the winter.

216. MUSIC IN RELATION TO DANCING.

The purpose of this course is to furnish the basis for an intelligent appreciation of musical composition from the standpoint of the dance. It includes discussion and application of the principles of interpretation with emphasis on ear training, fully illustrated with music. No special technical knowledge of music is required.

Open to first-year students, and with the permission of the department to five-year students. One hour a week for the second semester.

MISS JOHNSON.

317. PROBLEMS OF ORGANIZATION AND ADMINISTRATION.

Organization and management studied by field trips, discussion, and library investigation. Records, reports and budgets, construction and upkeep of buildings and sports fields.

Open to second-year students registered in course 306. One hour a week for the second semester.

MISS ELLIOTT.

322. HEALTH PROBLEMS OF SCHOOL AND COMMUNITY.

The problems of growth, of health instruction, and environmental hygiene in the solution of which the teacher in physical education should be prepared to assist, advise or supervise. Students take active part in a school health program of measurement and instruction. This course counts three hours toward the Master's degree.

Open to first and second-year students. Five periods a week; in general three of lecture and two of practical work, counting three hours a week for a year.

MR. HOWE, MISS COOK.

323. SEMINAR IN HYGIENE AND PHYSICAL EDUCATION.

Reading, investigation, and reports on current problems in hygiene and physical education; conferences; presentation of one or more papers for discussion.

Open to second-year students. One or more semester hours.

MISS ELLIOTT, MR. HOWE.

DIRECTIONS FOR UNDERGRADUATES WHO ARE CANDIDATES FOR THE
B.A. DEGREE AND FOR THE CERTIFICATE OF THE DEPARTMENT OF
HYGIENE AND PHYSICAL EDUCATION

Five years are required to complete the work for both degree and certificate. The work for the degree may be completed in four years.

A student may enter this five-year course at the beginning of her freshman, sophomore, or junior year. The College Recorder will furnish the student with a form to be presented to the chairman of the department, since permission to register for the five-year course must be obtained from the chairman by each applicant. By the end of the sophomore year a student should have completed Hygiene and Physical Education 120, 121, 122, Biblical History 101.2 or 104, Chemistry 101, Psychology 101, Physics 101, the prescribed courses in English Composition, and Speech, or should offer satisfactory equivalents. A full major in Zoölogy is an advantage. The work for the last three years is as follows:

Junior Year: Courses 101, 102, 105, 110, 212, and Zoölogy 301, 313. Zoölogy 302 may be taken in the junior or in the senior year. Zoölogy 301, 302, 313 count toward the B.A. degree and a major in Zoölogy.

Senior Year: Courses 104, 126, 203, 208, 303, and Zoölogy 302, if not completed in the junior year. Hygiene 303 and Zoölogy 302 count toward the B.A. degree, and Zoölogy 302 toward a major in Zoölogy.

Education 201 is required and should ordinarily be taken in the junior year. Courses in French, German, Economics, Psychology, and Bacteriology are advised.

Fifth Year: Courses 201, 202, 205, 206, 214, 304, 306, 309, and 321. Course 322 may be elected and counts three hours toward the M.S. degree. Course 321 (required) may count three hours toward the M.S. degree.

Students are referred to the Bulletin of the Graduate Department of Hygiene and Physical Education.

ITALIAN

Professor: GABRIELLA BOSANO, DOTTORE IN FILOLOGIA MODERNA (Chairman)
Assistant Professor: ANGELINE LA PIANA, DOTTORE IN LETTERE.
Instructor: MARIA PRIGLMEIR BIZZONI, M.A.

The language of the classroom is Italian except for occasional necessary explanations of grammar and idiom.

***101. ELEMENTARY COURSE.**

Grammar, with written and oral exercises; reading and sight translation; conversation. In the second semester a general view of Italian civilization is given through reading and conversation.

Open to students who do not present Italian for admission. Three hours a week for a year.

MISS BOSANO, MISS LA PIANA, MISS BIZZONI.

***102. PRACTICAL PHONETICS.**

Exercises in pronunciation based on reading aloud short passages of prose and poetry. Emphasis on rhythm and melody of the spoken language and on practical application of scientific phonetics.

Open to students who are taking course 101 and required of students majoring in Italian. One hour a week for a year.

MISS BIZZONI.

201. HISTORY OF ITALIAN LITERATURE IN THE TWENTIETH CENTURY.

Emphasis on drama and short stories.

Open to students who have completed course 101 or equivalent. Three hours a week for a year.

MISS LA PIANA.

202. HISTORY OF ITALIAN LITERATURE IN THE NINETEENTH CENTURY.

Emphasis on realism and pessimism in the Italian literature of this period through a detailed study of Giovanni Verga, Giacomo Leopardi, Alfredo Oriani.

Open to students who have completed course 101 or equivalent. Three hours a week for a year.

MISS BIZZONI.

205. COMPOSITION.

A study of the most difficult parts of Italian grammar and syntax. Free composition with special attention to letter writing. The subject-matter will deal chiefly with contemporary Italy.

Open to students who have completed course 101 and are taking course 201 or 202. Two hours a week for the first semester.

MISS LA PIANA.

206. CONVERSATION.

Dealing especially with the various aspects of Italian contemporary life; to give to the student a larger vocabulary and correct pronunciation, ease and freedom of expression and clear phrasing.

Open to students who have completed course 101 and are taking course 201 or 202. Two hours a week for the second semester.

MISS LA PIANA.

301.† DANTE AND HIS TIME.

The study of the outstanding characteristics of the Middle Ages and of its writers. The reading of Dante's *Divina Commedia* and *Vita Nuova* in the original and in full.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 201 or 202. Three hours a week for a year.

MISS BOSANO.

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 450 of the Harvard University Catalogue, 1933-34.

305.† COMPOSITION.

A comparative study of Italian grammar with reference to Latin and to the Romance Languages. A careful analysis of passages from masterpieces. Translation from English into Italian. Free composition with special attention to essays and literary criticism.

† It will be the privilege of students in courses 301, 305, 306, and 307 to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection.

Open to students who have completed courses 101, 201 or 202, and are taking course 301 or 307. Two hours a week for the second semester. MISS BIZZONI.

306.† CONVERSATION.

Italian civilization as seen in the development of art and philosophy; to give to students a further training in diction and in expressing themselves freely on a given subject.

Open to students who have completed courses 101, 201 or 202, and are taking course 301 or 307. Two hours a week for the first semester. MISS BIZZONI.

307.† LITERATURE OF THE ITALIAN RENAISSANCE.

A survey of the Italian civilization of the Renaissance as expressed in literature. A detailed study of the following subjects: Drama and short stories in the fifteenth and sixteenth centuries.

Open on consultation with the instructor to juniors and seniors who have completed or are taking course 301. Three hours a week for a year. MISS BOSANO.

DIRECTIONS FOR ELECTION

A major in Italian is generally based on course 101. It is very desirable that students majoring in Italian should have had or be taking a college course in Latin or in one of the Romance Languages, and should elect such courses in History and Art as deal in whole or in part with Italian civilization and culture. Such courses will be required of students working for honors.

Students taking a twelve-hour major should include courses 102, 201 or 202, 301, 305, 306, 307.

Students taking a fifteen-hour major should include courses 102, 201, 202, 301, 305, 306, 307.

NOTE:—Course 101 may not count toward the major.

GENERAL EXAMINATION

The general examination for students taking a major in Italian will be based largely on the work done in the courses of grade II and III, and will be of such a character as to bring out the interrelation of these courses (of grade II and III), bearing in mind that while some appear to be more closely articulated than others, they all make their contribution to the cultural development of Italian life. Some of the questions will have a direct bearing on the content of the courses, while others will be of a more general character, and will best be answered by opinions expressed and deductions drawn.

The results of the elementary work will appear in the degree of accuracy and ease of expression shown in the written portion of the examination, but especially in translating from English into Italian and vice versa.

The chairman of the department will be ready to answer any questions that the above statement has not made clear.

† See footnote on page 122.

LATIN

Professor: CAROLINE REBECCA FLETCHER, M.A.
 Associate Professors: ANNA BERTHA MILLER, Ph.D. (Chairman)
 HELEN HULL LAW,¹ Ph.D.
 Assistant Professor: DOROTHY MAE ROBATHAN, Ph.D.

***101. INTRODUCTION TO LATIN LITERATURE.**

A brief survey of the literature based upon representative authors from the most important fields of verse and prose: one comedy of Terence or Plautus; the epic form in Ennius, Lucretius, and Ovid; lyrics of Catullus and Horace; epigrams of Martial; Cicero's essays, and letters of Cicero and Pliny; Livy's history of early Rome. The course serves to correlate the student's earlier reading in Latin, and to prepare for more intensive study of special authors. Emphasis is placed upon the continuity of Latin thought or literary form as an influence on modern literature and civilization.

Open to students who present four units in Latin for admission, or have completed course 103. Three hours a week for a year.

MISS FLETCHER, MISS MILLER, MISS ROBATHAN.

***103. VERGIL (*Æneid I-VI*) OR CICERO (*Orations, Letters*).**

The choice of author will depend upon the preparation of the students.

Open to students who present only three units in Latin for admission. Students who have satisfactorily completed four units, even though only three have been offered for admission, should elect course 101. Three hours a week for a year.

MISS ROBATHAN.

201. HORACE.

A study of Horace's lyric verse in the *Odes* and *Epodes*, supplemented by selections from the *Epistles* as a basis for appreciation of the poet's art.

Open to students who have completed course 101, and, by permission of the department, to qualified juniors and seniors without prerequisite. Three hours a week for the first semester.

MISS MILLER.

202. VERGIL.

Selections from the *Eclogues*, *Georgics*, and *Æneid*. Study of the poet's early work in pastoral romance, and his later development through didactic epic, the *Georgics*, to the heroic epic of the *Æneid*.

Open to students who have completed course 101, and, by permission of the department, to qualified juniors and seniors without prerequisite. Three hours a week for the first semester.

MISS FLETCHER.

204. TACITUS AND PLINY.

The *Agricola* of Tacitus, with selections from the *Histories*; Pliny's *Letters*. Reports on special topics concerned with the literary style and social background of these authors.

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

MISS MILLER.

¹ Absent on leave.

205. CICERO'S PHILOSOPHICAL WORKS.

Selections from the *Tusculan Disputations*, the *De Officiis* and other works.

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

MISS FLETCHER.

206. LATIN WRITING.

Practice in turning connected English passages into Latin. Emphasis is placed upon accuracy of expression and correct idiom.

Open to students who have completed a course of grade I. One hour a week for a year.

MISS FLETCHER, MISS ROBATHAN.

211. MEDIÆVAL LATIN.

Readings from Latin writers in the fields of literature, history, and philosophy of the Middle Ages. Selections include Cassiodorus, Gregory the Great, Bede, Geoffrey of Monmouth, John the Scot, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum*, religious drama, songs of the Goliards, and church hymns. Only so much attention will be given to linguistic study as the reading requires.

Open to students who have completed one full course in the department, and to juniors and seniors who present four units in Latin for admission and who are giving special attention to Mediæval Art, History, or Literature. Three hours a week for the second semester.

MISS MILLER.

301. COMEDY. PLAUTUS AND TERENCE.

Careful study of two plays followed by the rapid reading of others. The course includes a study of the sources of Latin comedy, its linguistic and literary features, and its influence upon later literature.

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

MISS ROBATHAN.

302. SATIRE. HORACE AND JUVENAL.

Some attention is paid to the origin and development of satire as a literary form. The chief emphasis is placed upon the satires of Horace and Juvenal, but the work of other Roman satirists is studied by special topics and reports. Sight reading in Martial.

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

MISS ROBATHAN.

303. LATIN EPIGRAPHY.

Selected inscriptions will be studied both for their form and for their content as sources for the study of Roman public and private life.

Open to students who have completed three full courses, and, with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the first semester.

MISS ROBATHAN.

304. TOPOGRAPHY OF ROME.

A study is made of the early history of the city, its development, the construction and furnishings of typical public and private buildings in Rome and in

provincial towns. Such study of the material surroundings is connected with the literary and social development of the Roman people, and is introductory to further work in classical archæology.

Open to students who have completed three full courses, and, with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the second semester.

MISS ROBATHAN.

305. RELIGIOUS AND POLITICAL INSTITUTIONS OF THE ROMAN REPUBLIC.

Study of the sources will be based on the first ten books of Livy. Lectures and collateral reading.

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

MISS FLETCHER.

306. STUDIES IN ROMAN RELIGION.

Study of the private cult will precede that of the institutions of the State religion. The chief emphasis will be upon the Roman republican period, but the influence of the Oriental cults of imperial times will be presented in special topics. While courses 305 and 306 may be elected as semester courses, the plan of the work is continuous, and it is strongly advised that course 305 be taken in preparation for course 306.

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

MISS FLETCHER.

307. LATIN LITERATURE OF THE EARLY CHRISTIAN PERIOD.

Readings from the Early Christian Apologists and Fathers illustrating the contact of Christian ideals with Pagan thought and civilization. Latin Hymns. This course may count as an elective in the Department of Biblical History. The course is given in one weekly appointment, running into extra-schedule hours.

Open to students who have completed three full courses, and, with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the second semester.

MISS MILLER.

308. LATIN WRITING. (Not given in 1934-35.)

(Advanced course.)

Open at the discretion of the instructor to students who have completed course 206. One hour a week for a year.

MISS FLETCHER.

309. PROSE LITERATURE OF THE ROMAN EMPIRE.

The aim of this course is to secure an acquaintance with many representative authors of the Roman Empire, and to show the interest and value of the "Silver Latinity" in writers of the later Imperial period. The readings will vary from year to year, with emphasis on history, philosophy, or fiction as the major study. Individual assignments of reading and reports are an important feature of the course. The course is given in one weekly appointment, running into extra-schedule hours.

Open to students who have completed three full courses, and, with the permission of the department, to qualified students who have completed two full courses. Three hours a week for the first semester.

MISS MILLER.

310. SURVEY OF LATIN POETRY. POETRY OF THE REPUBLIC. (Not offered in 1934-35.)

Some study is given to the beginning of Latin poetry and the earlier poets, but the main emphasis is placed upon the poets of the Ciceronian Age, Catullus and Lucretius.

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

312. SURVEY OF LATIN POETRY. POETRY OF THE EMPIRE. (Not offered in 1934-35.)

The aim of this course is to secure an acquaintance with representative poets of the period, and to show the interest and the value of the later Latin poetry. Rapid reading without translation is one of the features of this course.

Open to students who have completed three full courses. Three hours a week for the second semester. MISS FLETCHER.

321. HISTORY OF LATIN LITERATURE.

The design of this course is to enable a graduate student to study the authors and periods and forms of literature which were not included in her undergraduate work, and thus to complete the work done in individual courses by a comprehensive view of Latin literature as a whole and its place in world literature. The course demands much independent work and is intended to meet individual needs.

Open to graduate students only. One to three hours a week for a year.

THE TEACHING STAFF.

No students are recommended as teachers of Latin who have not had at least one full course of grade III and course 206.

Courses 320, 321 in Art, may be counted toward the major in Latin by students who are taking at the same time a course of grade III in Latin.

DIRECTIONS FOR ELECTION

A major in Latin is based on course 101. Course 103 may not be counted in a restricted elective. Students intending to major in Latin are strongly advised to take at least one course in Greek, and a course in Roman History. A reading knowledge of French and German is desirable, especially for those who hope to work for honors in the department.

GENERAL EXAMINATION

Every student who presents herself for the general examination in Latin shall be required to show:

(1) Her ability to use the language by translation at sight of passages in prose and verse.

(2) A general knowledge of the history of Latin literature from its beginnings through the reign of Trajan, and of as much of the historical and social background as is necessary for understanding the literature.

(3) Familiarity with the specific fields of literature which have been covered in the courses elected by the individual student.

MATHEMATICS

<i>Professor:</i>	MABEL MINERVA YOUNG, Ph.D. (Chairman)
<i>Associate Professor:</i>	LENNIE PHOEBE COPELAND, ³ Ph.D.
<i>Assistant Professor:</i>	MARION ELIZABETH STARK, Ph.D.
<i>Instructors:</i>	HELEN GERTRUDE RUSSELL, Ph.D. RUTH GLIDDEN MASON, ⁶ Ph.D.

Course 106 is for students who have not had a course in trigonometry, 107 is for those who have spent a half-year in studying this subject. One or other of these courses is a prerequisite for some advanced courses in astronomy and physics.

*106. TRIGONOMETRY, HIGHER ALGEBRA, ANALYTIC GEOMETRY.

This course aims to give students some acquaintance with advanced methods in mathematics, as well as with advanced subjects. The topics chosen have a close connection with earlier work, and are essential for all later work. The trigonometry carries farther the beginnings made in elementary algebra, the higher algebra introduces some fundamental notions of the calculus, and the analytic (that is, algebraic) geometry is closely related to earlier work in graphs, and, by using algebra, gives a new method of studying geometric figures, including the conic sections.

Open to students who present three units in mathematics for admission. Three hours a week for a year.

MISS COPELAND, MISS STARK, MISS RUSSELL, MISS MASON.

*107. HIGHER ALGEBRA AND ANALYTIC GEOMETRY.

This course is similar to 106, except that it assumes an acquaintance with trigonometry. This makes it possible to carry farther the two other subjects.

Open to students who present four units in mathematics for admission, or have had a course in trigonometry equivalent to that outlined by the College Entrance Examination Board. Three hours a week for a year.

MISS RUSSELL.

202. DIFFERENTIAL AND INTEGRAL CALCULUS.

A study of derivatives and rates of change, with applications to the conic sections and curves of higher order, and to series; integration as the inverse of differentiation and as a process of summation, with some work on the lengths of curves, on areas and on volumes. This course is fundamental to all advanced work in mathematics, physics, and astronomy.

Open to students who have completed a course in analytic geometry. Three hours a week for a year.

MISS YOUNG, MISS COPELAND, MISS RUSSELL.

203. HISTORY OF ELEMENTARY MATHEMATICS. (Not offered in 1934-35.)

The evolution of the fundamental concepts of mathematics. Great mathematicians and their chief contributions to elementary mathematics. A brief survey of modern developments in mathematics and its literature. A standard text is used, supplemented by lectures and short reports chiefly based upon rare old books in the mathematical library.

Open to juniors and seniors who have completed or are taking course 202. Three hours a week for the second semester.

MISS COPELAND.

³ Absent on leave for the second semester.

⁶ Appointed for the second semester only.

204. INTRODUCTION TO THE THEORY OF STATISTICS.

Statistical methods, with special emphasis on the use of elementary mathematics in the development of theory and in practice.

Open to students who have completed a three-hour course of grade I in mathematics. One period of lecture with the equivalent of one laboratory period a week, counting one hour a week for a year. This course counts toward the degree, but not toward a major in the department.

MISS YOUNG.

206. DESCRIPTIVE GEOMETRY I.

The theory and practice of the representation of geometric figures. The use of two or more planes of projection in representing lines, surfaces, and solids. Intersections and shadows.

Open to students who have completed or are taking course 202, and, by special permission, to a limited number who have completed a course in analytic geometry. All must have a knowledge of the elements of solid geometry. The department will give directions for gaining readily the necessary acquaintance with this subject. One period of lecture with one period of laboratory a week, counting one hour a week for a year.

MISS STARK.

208. DESCRIPTIVE GEOMETRY II. (Not offered in 1934-35.)

Special methods for the construction of curves and solids. Intersections of curved surfaces. Different types of perspective.

Open to students who have completed course 206. One period of lecture with the equivalent of one laboratory period a week, counting one hour a week for a year.

MISS STARK.

302. HIGHER ANALYSIS.

The number system of algebra; continuity and other properties of functions; convergence of series; representation of functions by power series; theory of integration. Infinite products, infinite integrals, beta and gamma functions, Fourier series, and other allied subjects.

Open to students who have completed course 202. Three hours a week for a year.

MISS STARK.

303.† DIFFERENTIAL EQUATIONS.

An introductory course in ordinary and partial differential equations.

Open to students who have completed course 202. Three hours a week for the first semester.

MISS COPELAND.

304. INTRODUCTION TO MODERN ALGEBRAIC THEORY.

Determinants, matrices, systems of linear equations, symmetric functions, eliminants, resultants, discriminants, invariants and covariants, quadratic forms.

Open to students who have completed course 202. Three hours a week for the second semester.

MISS MASON.

305. INTRODUCTION TO DIFFERENTIAL GEOMETRY. (Not offered in 1934-35.)

Calculus applied to geometry of two and three dimensions, including a study of twisted curves.

† Physics 305, if preceded by Mathematics 303, may be counted toward a major in mathematics.

Open to students who have completed course 202. Three hours a week for the first semester.

MISS RUSSELL.

306. MODERN SYNTHETIC GEOMETRY.

Fundamental concepts underlying modern geometry; harmonic forms; projective and metrical properties of forms of first and second orders in plane and in sheaf; ruled surfaces of second order; inversion.

Open to students who have completed course 202. Three hours a week for a year.

MISS YOUNG.

307. ADVANCED GEOMETRY.

An introduction to the study of higher plane curves. Both algebraic and synthetic methods will be used. The theory of the conic will be extended, and curves of the third order systematically studied. Lectures, reading, and discussion.

Open to students who have completed course 306, and have completed or are taking three additional hours of grade III. Three hours a week for a year.

MISS YOUNG.

308. FUNCTIONS OF A COMPLEX VARIABLE.

Elementary treatment of analytic functions. Infinite series and products, with applications to elliptic functions.

Open in 1934-35 to students who have completed course 202; in 1935-36 and thereafter to those who have completed course 302. Three hours a week for a year.

MISS RUSSELL.

DIRECTIONS FOR ELECTION

For a major or minor or for honors in mathematics course 202 is required as a basis.

A major must include at least six hours of grade III.

The ability to read French, German, or Italian is required in all grade III courses. A reading knowledge of more than one of these languages is desirable.

Only those students who have completed satisfactorily at least three hours of grade III in the department will be recommended as teachers of mathematics.

SPECIAL COURSE

Not counted in the majors: Course 204.

GENERAL EXAMINATION

Modern mathematics is a many sided subject, including fields widely diverse in nature. Work in each of these fields, however, requires as a basis an understanding of the fundamental principles and methods of analytic geometry and the differential and integral calculus. This implies skill in the use of elementary algebra, geometry, and trigonometry as tools. Each student majoring in mathematics is therefore expected to spend two years in gaining acquaintance with the elements of these essential subjects. On this foundation rests more advanced work of three types: analysis, geometry, and applied mathematics. The work offered by the department in these fields is as follows:

Analysis: Courses 302, 303, 304, 308.

Geometry: Courses 206, 208, 305, 306, 307.

Applied Mathematics: Courses 206, 208, 303, Physics 305, Astronomy 302 or 303.

Course 203, History of Mathematics, is supplementary to all these fields.

The general examination will include some questions on the fundamental subjects and some on the more advanced subjects, with special emphasis on the interrelations between the courses. In these questions students will have a wide range of choice, determined partly by their electives, but each one will be expected to answer some elementary and some more advanced questions.

MUSIC

Professor: HOWARD HINNERS, B.A. (Chairman)
Assistant Professor: HELEN JOY SLEEPER, M.A., MUS.B.
Visiting Lecturer: PAUL HENRY LANG, PH.D.
Instructor: EDWARD BARRY GREENE, B.A.
 DIRECTOR OF CHOIR
Assistant: BARBARA GOLDSMITH TRASK, B.A.

(For list of Instructors in Practical Music, see page 134)

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. Courses 206, 207, 305, 306, 309, 313, 314, and 316 are designed especially for those students who desire to gain an appreciative knowledge of musical literature.

A limited number of tickets for reserved seats at the concerts of the Boston Symphony Orchestra in Symphony Hall, Boston, are free to students who are able to use them profitably.

*101. ELEMENTS OF MUSIC.

Rudiments, major, minor and ecclesiastical modes, modality and tonality, intervals, chord construction, analysis of the mechanism of modulation. Aural drill in the identification of the roots of triads and dominant seventh chords and their inversions. Intensive work in ear-training and sight-singing, designed to develop a keen ear for intervals, rhythmic patterns and tonal relations.

Open to students who do not offer harmony for admission. This course or, by special permission, course 102 is required of all freshmen who elect practical music. Not to be counted toward a major. Three hours a week for a year.

MISS SLEEPER, MR. GREENE.

*102. INTRODUCTION TO THE HISTORY OF MUSIC. (Not offered in 1934-35.)

An analytical study, for students without previous training, of the essentials of musical expression and the principles of harmonic design as exemplified in the music of the eighteenth and nineteenth centuries. Intended for those who do not expect to major in music.

Open to students who do not offer harmony for admission. This course may, by special permission, be taken to fulfill the theory requirement for practical music. Not to be counted toward a major. Students taking this course may not also elect either course 101 or 206. Three hours a week for a year.

***201. HARMONY.**

Major and minor triads and their inversions, elementary modulation, suspensions and other non-harmonic tones. Harmonization—both written and at the keyboard—of simple melodies and basses, figured and unfigured. Dictation and analysis.

Open to students offering harmony for admission and to those who have completed course 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. All candidates for the course must have an elementary knowledge of piano or organ playing sufficient to enable them to play simple hymn-tunes at sight. Three hours a week for a year. MR. HINNERS.

***203. ELEMENTARY COUNTERPOINT.**

Counterpoint in two and three voices. Analysis.

Open to students offering harmony for admission and to those who have completed course 101, or who can satisfy the instructor, by a special test in ear-training, of their ability to take the course. Three hours a week for a year. MR. HINNERS.

205. SOUND (Physics 205—See Department of Physics). (Not offered in 1934–35.)

206. INTRODUCTION TO MUSICAL LITERATURE.

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music is required.

Open only to juniors and seniors who have had no other course in the department. Not to be counted toward a major. Three hours of lecture and one section meeting a week, counting three hours a week for a year. MR. GREENE, MISS TRASK.

***207. INSTRUMENTAL MUSIC.**

Orchestral, keyboard, and chamber music of the seventeenth, eighteenth, and nineteenth centuries. A few representative works by classic and romantic composers will be selected for detailed study.

Open to students who offered harmony for admission or who have completed course 101 or 102. Three hours a week for a year. MISS SLEEPER.

303. ADVANCED COUNTERPOINT AND COMPOSITION.

Counterpoint in four voices; double and imitative counterpoint. Composition in the simpler contrapuntal forms: canon, motet, invention, choral prelude, and variations.

Open to graduate students and approved undergraduates who have completed courses 203 and 310 and, by special permission, to students who are taking 310. Three hours a week for a year. MR. HINNERS.

305. CHORAL MUSIC.

Mediæval and Renaissance music as represented by Gregorian chant, troubadour songs, and the rise of polyphony. Special emphasis is given to the culminating schools of the sixteenth century, with detailed study of selected works by Palestrina, Lassus, Victoria, and the English Madrigalists.

Open to juniors and seniors who have completed course 201 or 203 or 207. Three hours a week for the first semester.

MR. LÁNG.

306. BEETHOVEN AND WAGNER.

An intensive course devoted to the study of selected sonatas, chamber music, and symphonies of Beethoven and the music dramas of Wagner. The aim of the course will be to give an intimate knowledge of the two composers' works and to estimate their place in musical history.

Open to students who have completed course 201 or 203 or 207. Three hours a week for a year.

MISS SLEEPER.

309. BACH.

An intensive study of selected masterpieces from among the choral, organ, clavier, and orchestral works, with special reference to the forms perfected by Bach, and his place in the history of music.

Open to juniors and seniors who have completed course 305. Three hours a week for the second semester.

MR. LÁNG.

310. ADVANCED HARMONY.

Dominant and secondary seventh and ninth chords, altered chords and modulation to remote keys. Harmonization of more extended melodies and basses, involving some of the elementary principles of musical composition. Advanced dictation, keyboard work, and analysis.

Open to juniors and seniors who have completed course 201. Three hours a week for a year.

MR. HINNERS.

313. SYMPHONIC MUSIC.

Origin and development through the seventeenth century. The perfected forms of the classic period. Chief tendencies of the nineteenth century, leading to a consideration of modern works. The emphasis of the first semester will be on the symphonies of Beethoven, of the second semester on those of Brahms.

Open to graduate students and to undergraduates who have completed courses 201 and 305-309 or 306. Three hours a week for a year.

MR. LÁNG.

314. DEVELOPMENT OF DRAMATIC MUSIC. (Not offered in 1934-35.)

The progress of sacred and secular forms used in dramatic music from the opening of the seventeenth century to the present. Intensive study will be made of a few representative works.

Open to students who have completed course 201 or 203 or 207. Three hours a week for the first semester.

MISS SLEEPER.

315. INSTRUMENTATION. (Not offered in 1934-35.)

The technique, timbres and ensemble of the instruments of the modern orchestra. Drill in transposition by clef and practice in simple score-reading. Elementary orchestration. The mechanism and scope of the various instruments will be illustrated by members of the Boston Symphony Orchestra.

Open to graduates and to approved juniors and seniors who have completed courses 201, 203, and 310; and by special permission to students who have completed course 201, and 203 or 310, and are taking 310 or 203. Three hours a week for a year.

MR. HINNERS.

316. CHAMBER MUSIC. (Not offered in 1934-35.)

The string fantasias and suites of the seventeenth century, the rise of the string quartet, chamber works of Haydn, Mozart, Beethoven, Brahms, and the moderns.

Open to students who have completed course 201 or 203 or 207. Three hours a week for the second semester.

MISS SLEEPER.

II. PRACTICAL MUSIC (INSTRUMENTAL AND VOCAL LESSONS)

Instructors in Practical Music: BLANCHE FRANCIS BROCKEBANK (Piano)
 JEAN EVELYN WILDER, B.A. (Piano)
 GLADYS AVERY (Voice)
 YVES CHARDON (Violoncello)
 CLARENCE EVERETT WATERS, F.A.G.O. (Organ)
 RICHARD BURGIN (Violin)
 MALCOLM HAUGHTON HOLMES, B.S. (Conductor of Orchestra)

Attention is called to the fact that a 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) following.

Freshmen may not elect instrumental or vocal music without course 101 or by special permission, course 201. There is an extra charge for instrumental or vocal music and work in this field is not credited toward the B.A. degree.

Practical music, subject to the restrictions above and under paragraph (a) below, is an elective, and students should notify the department of their election of the subject in the usual manner and at the proper time. 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 as well as of the chairman of the department; they must also take a full course in Musical Theory, unless they have completed two three-hour courses in the subject.*

(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, 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. The study of Musical Theory is required throughout the course.*

(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 entrance examination in Harmony. Special stu-*

dents 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.

DIRECTIONS FOR ELECTION

For a twelve-hour major, either of the following sequences is required:

- (1) 201, 310, 207 or 306 and any grade III history course.
- (2) 201, 203, 310 and 207 or 306.

For a fifteen-hour major, the following courses are required: 201, 203, 310, 207 or 306 and any grade III history course.

Course 101, which does not count toward a major, is a prerequisite to any of the above sequences.

The new requirements for the major, as stated above, apply only to the class of 1937 and thereafter.

GENERAL EXAMINATION

The general examination will be a test of the student's knowledge of (1) musical theory (harmony, counterpoint, and composition); and (2) music history and appreciation, including familiarity with outstanding examples of the work of leading composers studied in each course.

Required questions will deal with courses taken by all the major students. Questions on other courses will be wholly or partly optional.

PHILOSOPHY AND PSYCHOLOGY

<i>Professors:</i>	THOMAS HAYES PROCTER, PH.D. (Chairman) EDNA FRANCES HEIDBREDER, PH.D.
<i>Associate Professors:</i>	MICHAEL JACOB ZIGLER, PH.D. MARY LOWELL COOLIDGE, PH.D.
<i>Assistant Professor:</i>	EDITH BRANDT MALLORY, PH.D.
<i>Instructor:</i>	VIRGINIA ONDERDONK, B.A.
<i>Assistants:</i>	GRACE ALLERTON ANDREWS, M.A. THELMA GORFINKLE ALPER, M.A. LOUISE WARD GATES, M.A.

I. PSYCHOLOGY

*101. INTRODUCTORY COURSE IN PSYCHOLOGY.

This course is designed to secure to students a comprehensive survey of the field of general psychology, to provide a psychological basis for their study of philosophy, of sociology, and of education and to fit them for more advanced psychological work. Texts: Woodworth, *Psychology*; Warren and Carmichael, *Elements of Human Psychology*; Gault and Howard, *An Outline of General Psychology*; Murphy, *General Psychology*.

Open to sophomores, juniors, and seniors and, by special permission, to approved freshmen. Three hours a week for a semester. Given in both semesters.

Lecturers: MISS HEIDBREDER, MRS. MALLORY, MR. ZIGLER.
Conference Instructor: MRS. ALPER.

204. HISTORY AND METHOD OF PSYCHOLOGICAL EXPERIMENTATION.

This course aims to trace the historical development of the principal movements in experimental psychology and to indicate the steps in refinement of method and technique which have attended advance in these movements. Reference texts include Boring, *A History of Experimental Psychology*, and Murphy, *Historical Introduction to Modern Psychology*.

Open to students who have completed course 101. Three hours a week for a semester. Given in both semesters. MR. ZIGLER.

207. GENETIC PSYCHOLOGY.

This course presents the characteristic changes in conscious attitude and in behavior tendencies which take place in normal individual development. Attention is given both to the instinctive or unlearned traits and to the differentiating effects of environment and training. The material is primarily that of child psychology, but is supplemented by data drawn from the study of animals and of primitive peoples. The texts include Gesell, *Mental Growth of the Pre-School Child*, and Johnson, *Child Psychology*.

Open to seniors, juniors, and by permission to sophomores who have completed course 101. Three hours a week for the second semester. MRS. MALLORY.

209. EXPERIMENTAL PSYCHOLOGY, LABORATORY COURSE.

Every student is expected to perform one or two typical experiments in each of the main fields of psychological investigation. The experimental work is supplemented and interpreted in conferences. This course is designed to train the student in psychological method.

Open to students who have completed course 101. Six periods a week of laboratory work, counting three hours a week for a semester. Given in both semesters.

MR. ZIGLER, MRS. MALLORY, MRS. ALPER, MISS GATES.

210. EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

This course consists of investigation of special problems by individual students. In 1934-35 problems may be chosen in the following subjects: visual, auditory, tactual and olfactory sensation, association, memorizing, attention, and choice. The methods employed are wider than the problems and are adapted to training students in the fundamental demands of research.

Limited in number and open to students who have shown in course 209 an aptitude for laboratory work. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for a semester. Given in both semesters.

MISS HEIDBREDER, MR. ZIGLER, MRS. MALLORY.

303. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

This is an experimental-project course. It resembles course 210 except that greater mastery of laboratory technique is required.

Open to students who have completed course 210. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for the first semester.

MR. ZIGLER.

308. ADVANCED COURSE IN EXPERIMENTAL PROBLEMS IN PSYCHOLOGY.

This is also an experimental-project course. It may be taken either as a continuation of course 303 or as a substitute for it.

Open to students who have completed course 210. Six periods of laboratory a week, including one or two with instructor, counting three hours a week for the second semester.

MR. ZIGLER, MRS. MALLORY.

309. ABNORMAL PSYCHOLOGY.

This course includes the following topics: (1) The abnormal phenomena of the normal mind (such as dreaming); (2) the minor mental aberrations in their relation to mental hygiene; (3) mental deficiency and special disabilities; (4) certain major disturbances of which some knowledge is important to the social worker; (5) delinquency in its mental aspects. Reference books include Conklin, *Principles of Abnormal Psychology*; McDougall, *An Outline of Abnormal Psychology*.

Open to juniors and seniors who have completed course 101 and have completed, or are taking, at least two semester courses chosen from the following: courses 204, 207, 210, 210, 313 and 310 in Psychology; course 303 and the second semester of course 202 in Sociology; course 306 in Zoölogy; and the second semester of course 201 in Education. Three hours a week for the first semester. MISS HEIDBREDER.

310. SOCIAL PSYCHOLOGY.

This course includes the following topics: (1) The nature of social consciousness and behavior; (2) such social phenomena as "mob-mind," convention and custom; (3) certain present-day problems, such as racial and national antipathies in their psychological aspects; (4) individual cases of social maladjustment in the

light of differential psychology and of mental hygiene. Reference books will include Ewer, *Social Psychology*; Young, *Social Psychology*; and the Case Studies of the Judge Baker Foundation.

Open to juniors and seniors who have completed course 101 and have completed, or are taking, at least two semester courses chosen from the following: courses 204, 207, 209, 210, 313 and 309 in Psychology; course 303 and the second semester of course 202 in Sociology; and the second semester of the course in Group Leadership or of course 201 in Education. Three hours a week for the second semester.

MISS HEIDBREDER.

313. DIFFERENTIAL PSYCHOLOGY.

This course treats of the differences which exist between one human being and another in respect to mental traits and capacities. It offers a survey of the methods by which psychologists have tried to determine and define such differences and also includes a study of the test movement. Opportunities are offered for students to acquaint themselves with representative tests, and to gain some practice in giving and scoring them. The reference works include Freeman, *Mental Tests*; Terman, *The Measurement of Intelligence*; Garrett and Schneck, *Psychological Tests, Methods, and Results*.

Open to juniors and seniors who have completed course 101 and have completed or are taking at least two semester courses chosen from the following: courses 204, 207, 209, 210, 309 and 310 in Psychology; course 306 in Zoölogy; course 320 and the second semester of course 201 in Education. Three hours a week for the first semester.

MRS. MALLORY.

324. SEMINARY IN PSYCHOLOGY: TYPES OF PSYCHOLOGICAL THEORY.

This course attempts a comparison of structural, personalistic and behavioristic psychology, "psychology of the unconscious," and *Gestalt* psychology.

Open to graduate students, to seniors who are taking twelve hours in Psychology, and to approved seniors who are taking nine hours. Three hours a week for the second semester.

MISS HEIDBREDER, MR. ZIGLER.

326. SEMINARY COURSE: TRAINING IN THE USE OF PSYCHOLOGICAL SOURCES. (Not offered in 1934-35.)

This course is designed to train students especially interested in psychology to trace the development of special problems through the psychological literature. Experimental contributions bearing upon a topic will be analyzed and discussed. This course will be given as directed reading with weekly or bi-weekly conferences.

Open to graduate students, and to approved seniors who have completed course 210 and who are interested in experimental research. Three hours a week for the first semester.

MR. ZIGLER.

II. PHILOSOPHY

*102. INTRODUCTION TO PHILOSOPHY.

The aim of this course is to stimulate philosophical thinking and to give the student some acquaintance with metaphysical problems and some training in

method. The discussions are based on classical texts chosen to illustrate dualism, materialism, and idealism. The texts studied include selections from Descartes, Hobbes, and Berkeley.

Open to sophomores, juniors, and seniors and, by special permission, to approved freshmen. Three hours a week for a semester. Given in both semesters.

First semester, MR. PROCTER, MISS ONDERDONK.

Second semester, MR. PROCTER, MISS COOLIDGE, MISS ONDERDONK.

111. INTRODUCTION TO PHILOSOPHY THROUGH THE PROBLEMS OF RELIGION.

A brief historical and psychological study of the religious consciousness leading to a discussion of the nature and validity of religious experience in contrast with other types of experience and of the philosophical problems involved in this contrast. Reference texts include Moore, *The Birth and Growth of Religion*; Pratt, *The Religious Consciousness*; Russell, *A Free Man's Worship*; Whitehead, *Religion in the Making and Science and the Modern World*.

Open to sophomores, juniors, and seniors. Three hours a week for the second semester.

MR. PROCTER.

*107. INTRODUCTION TO PHILOSOPHY THROUGH GREEK THOUGHT.

A year course based on the material presented by the Greek thinkers. After a discussion of the various Pre-Socratic schools, special attention is given to Plato's *Apology, Crito, Phaedo and Republic* and to Aristotle's *Ethics* and to parts of the *Metaphysics*. Texts: Bakewell, *Source Book in Greek Philosophy*; Plato, *Selections* (Demos); Plato, *The Republic*; Aristotle, *Selections* (Ross). Supplementary reading.

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

MR. PROCTER.

108. LOGIC.

Training in argument and in logical criticism. Work expressly designed to meet the practical needs of the student. The course deals not only with the principles of deductive and inductive logic, but also with elementary questions of observation, testimony, and evidence. Text-book: Chapman & Henle, *Fundamentals of Logic*.

Open to sophomores, juniors, and seniors. Three hours a week for the second semester.

MISS ONDERDONK.

203. ÆSTHETICS. (Not offered in 1934-35.)

This is a discussion course dealing with such problems as those of the nature of our consciousness of beauty, the nature of artistic creation, the subjectivity or the objectivity of standards of criticism, and the relationship of æsthetic and ethical values. The theories considered are those of such classical philosophers as Plato and Schopenhauer, and of such recent writers as Santayana, Puffer, Tufts, Croce, and Bosanquet.

Open to sophomores, juniors, and seniors who have completed course 101 or 102. Three hours a week for the first semester.

MISS COOLIDGE.

205. ETHICS.

Study and criticism of representative ethical theories. The course will not be an historical one, but it will include discussion of the writings of some classical as well as of some contemporary moralists.

Open to sophomores, juniors, and seniors who have completed or are taking course 101 or 102, or 107 or 111. Three hours a week for the first semester.

MISS COOLIDGE.

214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY.

First semester: The philosophical systems of Spinoza, Leibniz, Locke, and Hume. Second semester: The Kantian philosophy and its developments in modern thought. Texts: Spinoza, *Ethics*; Leibniz, *Monadology* and *Discourse on Metaphysics*; Hume, *Treatise of Human Nature*; Kant, *Critique of Pure Reason*, *Metaphysic of Morality*, and *Critique of Practical Reason*; Hegel, *Logic of the Encyclopedia*; selections from Spencer, James, Bergson, Dewey, and C. I. Lewis.

Open to juniors and seniors who have completed courses 102 or 111 or 107. Open also, by special arrangement, to graduate students. Three hours a week for a year.

MISS ONDERDONK.

307. THE HISTORY OF GREEK PHILOSOPHY.

An advanced study of Greek Philosophy, offering more extended and more detailed readings in Plato (with emphasis on the later dialogues) and also in Aristotle, the Stoics, Epicureans, and Neo-Platonists. In addition to the texts of the Greek philosophers, use is made of Robin's *Greek Thought*.

Open to juniors and seniors who have completed four and one-half hours in the department, of which three must be in Philosophy, and, by special permission, to other seniors majoring in related departments. Open also to approved graduate students. Not open to students who have taken course 107. Three hours a week for a year.

MR. PROCTER.

312. MODERN ENGLISH AND AMERICAN REALISTIC PHILOSOPHIES.

The course begins with a brief review of Locke to illustrate the difficulties of the older realism. The modern reaction against idealism is introduced through G. E. Moore's *The Refutation of Idealism*. This is followed by a detailed study of dualistic realism as exemplified by Alexander, Laird, and the Critical Realists. The second part of the course consists of a study of monistic realism introduced by James's *Does Consciousness Exist?*

Open to juniors and seniors who have completed course 214 and to graduate students. Three hours a week for the second semester.

MR. PROCTER.

325. A STUDY OF CONTEMPORARY NATURALISTIC, IDEALISTIC, AND PRAGMATIC PHILOSOPHIES.

This course will include a consideration of important nineteenth century thinkers, such as Mill and Spencer, Schopenhauer, and Nietzsche as well as a study of the works of such contemporary writers as Bergson, Croce, Dewey. An opportunity will be given to students with special interests in ethics, logic or metaphysics to work along the lines of these interests.

Open to juniors and seniors who have completed course 214 and to graduate students. Three hours a week for the first semester.

MISS COOLIDGE.

305. THE LOGIC OF HEGEL. (Not offered in 1934-35.)

Study of the Logic of Hegel's Encyclopedia in Wallace's translation, with supplementary references to commentators and critics, as basis for the discussion of philosophical method and metaphysical problems.

Open on the same conditions as 325.

350. RESEARCH OR INDIVIDUAL STUDY. (Not offered in 1934-35.)

Open to graduate students and, by permission, to approved seniors. The amount of work contemplated must be indicated at the time of handing in electives.

HONORS

The department will advise candidates for honors in regard to their field of special study and will direct their work. Students are urged to consult the department before making their plans.

INDIVIDUAL WORK

The attention of students is called to courses 210, 303, 308, and 350.

DIRECTIONS FOR ELECTION

I. MAJOR IN PSYCHOLOGY

A twelve or fifteen hour major in Psychology must include courses 209 and 324 and one semester of grade I work in Philosophy. Courses supplementary to a Psychology major include courses in Philosophy, Education, Statistics, Sociology, Physics, Physiology and Zoölogy.

The attention of students interested in social psychology is called especially to the course in Group Leadership.

II. MAJOR IN PHILOSOPHY

A twelve or fifteen hour major in Philosophy must include courses 101, 214, and either 107 or 307. As courses supplementary to a Philosophy major may be suggested certain courses in Psychology, Mathematics, Natural Science, History, Political Science and Sociology, and in English, German, French, Latin and Greek literature.

GENERAL EXAMINATION

Students who plan to take the general examination in Philosophy or in Psychology are expected to consult the department. Advice in regard to preparation will be given gladly.

GRADUATE WORK

The department offers to graduate students direction in independent work both in Philosophy and in Psychology, and conducts graduate conferences with individual students at stated times.

PHYSICS

Professor:	LOUISE SHERWOOD McDOWELL, Ph.D. (Chairman)
Associate Professors:	GRACE EVANGELINE DAVIS, M.A. LUCY WILSON, ¹ Ph.D.
Assistant Professors:	ALICE HALL ARMSTRONG, Ph.D. DOROTHY HEYWORTH, Ph.D.
Laboratory Assistant:	EMILY FISHER BUCKINGHAM, M.A.

***101. ELEMENTARY PHYSICS.**

This course is for beginners, and presents briefly the elementary principles of mechanics, sound, heat, electricity, and light, and their applications. The lectures are fully illustrated by experiments.

Open to students who do not present Physics for admission. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for a year. MISS McDOWELL, MISS WILSON, MISS ARMSTRONG, MISS HEYWORTH, MISS BUCKINGHAM.

***104. ELEMENTARY PHYSICS.**

This course is for beginners. The same topics are considered as in course 101, but somewhat greater emphasis is placed upon the mathematical development of the subject. The lectures are fully illustrated by experiments.

Open to students who do not present Physics for admission and who have completed or are taking a year course in Mathematics in college. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for a year.

MISS McDOWELL, MISS HEYWORTH,
MISS ARMSTRONG, MISS BUCKINGHAM.

***102. GENERAL PHYSICS: MECHANICS, ELECTRICITY, AND LIGHT.**

This course is intended for students who already have an elementary knowledge of physics; it gives a rapid survey of the fundamental principles in mechanics, magnetism and electricity, wave motion and light. The lectures are fully illustrated by experiments.

Open to students who present one unit in Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS ARMSTRONG.

201. ELECTRICITY.

Topics include magnetic and electric fields of force, current, potential difference, resistance, capacity, electromagnetic induction. Lectures and laboratory work are closely correlated and measurements are made with instruments of precision.

Open to students who have completed course 101 or 104 or 102, and by special permission to juniors and seniors who present one unit in Physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS DAVIS.

***203. METEOROLOGY.**

The study of the phenomena of the weather with special attention to the application of the principles of heat. Topics include temperature, air pressure,

¹ Absent on leave for the second semester.

winds, clouds, precipitation, progress of storms, cold waves; the principles of weather prediction; atmospheric optical phenomena.

Open to students who have completed course 102 and to sophomores, juniors, and seniors who have completed or are taking course 101 or 104 or who present one unit in Physics for admission. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the second semester.
MISS DAVIS.

*205.† SOUND. (Not offered in 1934-35.)

A preliminary study of vibrations and wave motion, including reflection, refraction, interference, and the principle of resonance. Properties of musical notes: intensity, pitch, and quality; scales and tonal combinations; types of sounding bodies; musical instruments, their characteristics and combinations; architectural acoustics; reception of sound by the ear; reproduction by telephone, phonograph, and radio.

Open to students who have completed course 102, and to sophomores, juniors, and seniors who have completed or are taking course 101 or 104 or who present one unit in Physics for admission. Three periods of lecture and discussion, with one two-period laboratory appointment a week, counting three hours a week for the second semester.

206. ELECTRICITY: ALTERNATING CURRENT PHENOMENA.

The production, characteristics, and applications of variable currents of electricity; methods of measurement of resistance, inductance, and capacity; alternating current instruments; alternating current machinery, generators, motors, and transformers; simple theory and use of electron tubes.

Open to students who have completed course 201. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the second semester.
MISS ARMSTRONG.

204. THE AUTOMOBILE: PRINCIPLES AND CONSTRUCTION. (Not offered in 1934-35.)

The internal combustion engine; carburetors; systems of ignition, starting and lighting, and transmission. Lectures with demonstrations to illustrate the physical principles involved. Individual laboratory study of various automobile mechanisms.

Open by permission to sophomores, juniors, and seniors who have completed course 101 or 104 or 102 or who present one unit in Physics for admission. One period of lecture or one three-period laboratory appointment a week, counting one hour a week for a year.
MISS WILSON.

301.‡ LIGHT.

The wave theory and its application to the phenomena of dispersion, interference, diffraction, double refraction, and polarization; theory and use of optical instruments; brief discussion of the quantum theory. A final paper may be required in this course.

† Offered in coöperation with the Department of Music.

‡ Astronomy 301, to which Physics 301 is prerequisite, may be counted toward a major in Physics.

Open to juniors and seniors who have completed a course of grade II in Physics, or a year course of grade I in Physics and a year course of grade I in Astronomy. Three periods of lecture and discussion with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS WILSON.

302. ELECTROMAGNETIC OSCILLATIONS AND THE PRINCIPLES OF RADIO COMMUNICATION.

The production and detection of electromagnetic oscillations; the effect of resistance, inductance and capacity; resonance, damping, coupled circuits; electron tubes and their application to the transmission, reception and amplification of electromagnetic waves. Experimental lectures with individual laboratory study. A final paper may be required.

Open to juniors and seniors who have completed course 206 in Physics and course 106 or 107 in Mathematics. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester. MISS McDOWELL.

303. ELECTRONIC PHYSICS.

The course gives a brief introduction to the quantum theory and theories of the structure of the atom and considers in some detail the evidence offered by the phenomena of cathode rays, X-rays, positive rays, radio-activity, isotopes, photoelectricity, ionization, and optical spectra. The treatment is non-mathematical. A final paper may be required in this course.

Open to juniors and seniors who have completed course 201 or 301 in Physics, and have completed or are taking a year of Chemistry, and, by special permission, to seniors taking a major in Chemistry who have had a grade I course in Physics. Three hours a week for the second semester. MISS McDOWELL.

304.‡ THEORETICAL ELECTRICITY AND MAGNETISM.

The work is based upon Starling's *Electricity and Magnetism* and free use is made of the calculus.

Open to juniors and seniors who have completed course 201 and also course 202 in Mathematics. Three hours a week for the first semester. MISS HEYWORTH.

305.‡ MECHANICS.

Equations of motion; simple harmonic motion; central orbits; statics of rigid bodies; work, energy; dynamics of a particle; motion of rigid bodies. Emphasis is placed on the application of mathematics, especially plane analytic geometry and the calculus, to physics; use will be made of differential equations.

Open to students who have completed course 101 or 104 or 102 in Physics and course 202 in Mathematics. When combined with course 303 in Mathematics it may be counted toward a major in Mathematics. Three hours a week for the second semester. MISS HEYWORTH.

308. BIO-PHYSICS. (Not offered in 1934-35.)

This course deals with those parts of physics, especially surface-tension, heat, light, and electricity, that are essential to a knowledge of modern biology, physiology, and medicine. Readings and lectures are designed to explain our

‡ Mathematics 303, if followed by Physics 304 or 305, may be counted toward a major in Physics.

present conceptions of the principal biological processes that are physical in nature and the ways in which physical apparatus is used to investigate organisms. Laboratory exercises enable the student to visualize the processes more clearly and to obtain practice in using apparatus commonly employed in medical and advanced biological laboratories.

Open to juniors and seniors who have completed in college one year of Physics and one year of either Botany or Zoology. Three periods of lecture and discussion, with one three-period laboratory appointment a week, counting three hours a week for the first semester.

307. LABORATORY TECHNIQUE.

Practice arranged to fit the needs of the individual student. Photography, including the making of lantern-slides; glass blowing; silvering; shop work, including the use of the lathe.

Open to juniors and seniors who have completed or are taking a course of grade III in the department, and by special permission to advanced students in other science departments. One three-period laboratory appointment a week, counting one hour a week for a year.

THE STAFF.

350. RESEARCH OR INDIVIDUAL STUDY.

The work will be under the direction of the member of the department in whose field the work lies. Opportunity will be offered for a series of experiments as well as for investigation of a single problem.

Open to graduate students and, by permission of the department, to juniors and seniors who have completed nine hours in the department. To count two to three hours a week for a semester or for a year. By permission the work may be arranged to count one hour for the first semester in case two or three hours are elected for the second semester. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

A major in Physics should ordinarily include courses 101 or 104 or 102, 201 and 301 and at least three of the following courses: 302, 303, 304, 305. By permission of the department other combinations may be arranged.

For honors, Physics may be combined with Mathematics and Chemistry or Astronomy. A reading knowledge of German is desirable.

Pre-medical students are referred to the requirements as given under electives, page 45.

GENERAL EXAMINATION

The general examination may be based on any combination of courses which includes the courses mentioned under Directions for Election. The examination will consist of two parts: (1) questions based upon courses 101, or 104, or 102, and 201; (2) questions based upon the other courses of grade II and grade III. The number of questions will be sufficient to permit considerable choice in part I and a wide range of choice in part II.

The questions will be designed: (1) to show the essential unity in the different branches of physics; (2) to test the knowledge of fundamental principles and the ability to apply these principles to concrete problems. No reading outside that assigned for courses will be required.

SPANISH

Professor: ALICE HUNTINGTON BUSHEE, M.A. (Chairman)
Assistant Professors: ADA MAY COE, M.A.
 ANITA OYARZÁBAL, M.A.
 HELEN PHIPPS HOUCK, Ph.D.

A reading knowledge of French is required for all grade III work and desirable in all courses. The language of the classroom is Spanish.

A limited number of qualified students are permitted to spend the junior year in Spain with the foreign study group of Smith College.

*101. ELEMENTARY COURSE.

Grammar, composition, dictation, conversation, prepared and sight translation, short lectures in Spanish.

Open to students who do not present Spanish for admission. Three hours a week for a year. MISS BUSHEE, MISS COE, MISS OYARZÁBAL, MRS. HOUCK.

*102. INTERMEDIATE COURSE.

Grammar, composition, themes, lectures, reading from modern authors and selections from *Don Quijote*.

Open to students who have completed course 101 or an equivalent. Three hours a week for a year. MRS. HOUCK.

*103. OUTLINE HISTORY OF SPANISH LITERATURE.

A survey course with illustrative reading, grammar, and composition, planned especially for those who intend to major in Spanish.

Open to students who present three units in Spanish for admission and on recommendation of the department to students who have completed course 101. Three hours a week for a year. MISS OYARZÁBAL.

201. SPANISH LITERATURE IN THE NINETEENTH CENTURY.

The aim of this course is to give the student a general idea of Spanish literature after the Golden Age: the French influence, Romanticism, and the noted authors of the latter part of the nineteenth century. Rapid reading of both prose and poetry will be required, and authors previously studied will be referred to in the outline.

Open to students who have completed course 102 or 103. Three hours a week for a year. MISS BUSHEE.

203. ADVANCED CONVERSATION AND COMPOSITION.

This course is designed to give special opportunity for conversation, composition, and the acquisition of a large working vocabulary. The work is based on Spanish life, institutions, and history.

Open to students who have completed course 103, and to approved students who have completed course 102. One hour a week for a year. MISS OYARZÁBAL.

204. CONTEMPORARY SPANISH LITERATURE.

A survey of the literary movement since 1898 as represented by the novel, drama, and essay.

Open to students who have completed course 102 or 103. Three hours a week for a year. MISS OYARZÁBAL.

301. DRAMA OF THE GOLDEN AGE.

This course will be introduced by a short general outline of the historical and literary influences at work during the period. Characteristic dramas of Lope de Vega, Alarcón, Tirso de Molina, and Calderón will be studied as representative of the nation's thought and ideals at the time.

Open to juniors and seniors who have completed course 201 or 204. Three hours a week for a year. MISS COE.

302. THE SPANISH NOVEL.

The first semester will be devoted to a general study of the novel before 1650, especially the *caballeresca*, *picaresca*, and *pastoril*. During the second semester *Don Quijote* will be studied.

Open to juniors and seniors who have completed course 201 or 204. Three hours a week for a year. MRS. HOUCK.

303. OLD SPANISH LITERATURE FROM 1150 TO 1500.

Study of *El Poema del Cid* and other characteristic works of the period.

Open to graduates and to approved seniors who have completed at least one course of grade III. Three hours a week for a year. MISS BUSHEE.

304. SPANISH POETRY. (Not given in 1934-35.)

Special study of the *romances* and of the poetry of the Golden Age.

Open to graduates and approved seniors who have completed at least one course of grade III. Three hours a week for a year. MISS OYARZÁBAL.

305. CERVANTES. (Not given in 1934-35.)

A careful comparative study of the works of Cervantes.

Open to graduates and approved seniors who have completed course 302. Three hours a week for a year. MISS BUSHEE.

306. MODERN SPANISH AMERICAN LITERATURE.

The aim of this course is to show the influences at work in the making of Spanish American Literature with the reaction, especially in poetry, on the literature of Spain.

Open to juniors and seniors who have completed course 201 and History 214 or an equivalent. Three hours a week for a year. MISS COE.

350. RESEARCH OR INDIVIDUAL STUDY.

Open by permission to a limited number of seniors who are taking or have completed a course of grade III in the department. One to three hours a week for a year or two to three for a semester. The amount of work contemplated must be indicated at the time of handing in electives. MISS BUSHEE, MISS COE, MRS. HOUCK.

DIRECTIONS FOR ELECTION

A twelve-hour major should be made up of courses elected in the following sequence: 102 or 103, 201 or 204, and two of the following: 301, 302, 306.

A nine-hour major or minor should be made up of courses elected in the following sequence: 102 or 103, 201 or 204, 301 or 302 or 306.

The department advises that the sequence be 103, 201, 301, but students may consult their instructors in regard to other combinations. It is also very desirable that every major should include 203. It is expected that those who are planning to teach will complete satisfactorily a twelve-hour major.

GENERAL EXAMINATION

Every student who presents herself for the general examination in Spanish shall show:

- (1) Her knowledge of the language by her ability to use it in the examination.
- (2) A general knowledge of the outline of Spanish literature with as much of the historical background as is necessary for understanding the literature.
- (3) Familiarity with the specific fields of literature elected and their interrelation.

SPEECH

<i>Assistant Professors:</i>	EDITH MARGARET SMALL, A.A. EDITH WINIFRED MOSES, M.A. (Chairman)
<i>Instructors:</i>	CÉCILE DE BANKE JEANNETTE BARRY LANE, PH.B.
<i>Assistant:</i>	REBECCA GALLAGHER, M.F.A.

Six hours in this department in addition to course 104 may be counted within the minimum number of hours for the B.A. degree.

One hour in the sophomore year is required of all students except those who are exempted by examination or have completed course 101 in the freshman year, or elect course 101 in the sophomore year.

Each applicant for an examination for exemption from Speech will be asked to give from memory a two-minute excerpt from a poem, preferably a lyric, and to speak extemporaneously for two minutes on a topic of interest to herself.

The courses are designed to help the student to acquire: (a) free use of the voice and a good pronunciation of English, (b) ease in public address, (c) the power to read aloud simply and with expression, (d) the ability to interpret dramatic literature. The courses are arranged to make possible systematic and progressive study along these various lines.

The general aim of all the courses is, through training in speech, to add to the effectiveness of the individual.

*101. FUNDAMENTALS OF VOCAL EXPRESSION.

The purpose of this course is to develop the ability to read aloud acceptably and to speak with clearness and conviction. Phonetics, voice production, platform delivery, and the oral study of various forms of literature.

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

MISS MOSES, MISS DE BANKE, MISS LANE.

*104. VOICE AND SPEECH.

This course is intended to promote right habits in the production of voice, and, through a phonetic approach, to increase precision in articulation and pronunciation for conversation, classroom recitation, and extempore speaking.

Required of sophomores except those who have been exempted by examination or have completed or are taking course 101. Not open to students who have completed course 101. One hour a week for a year.

MISS MOSES, MISS DE BANKE, MISS LANE.

201. ORAL INTERPRETATION OF MODERN DRAMA AND MODERN POETRY.

This course is designed primarily to develop the creative imagination of the individual and to arouse an appreciation of the educational value of interpretative expression. Modern Drama, including tragedy, comedy, farce, melodrama; and Modern Poetry, including Browning Monologues, will be used in platform interpretations.

Open to students who have completed one three-hour course in the department, also to those who have completed or are taking English Literature 210, or 307. Three hours a week for a year.

MISS SMAILL.

202. THE ART OF SPEAKING IN PUBLIC.

The course makes a study of the principles of speech composition, and of the technique of delivery, with application of these to different kinds of original addresses, including speeches of introduction, welcome, presentation, commemoration, the after-dinner speech; the speech designed to persuade; types of debate. In the second semester an opportunity will be given to organize and conduct an open forum meeting.

Open to students who have completed course 101 or 104. Three hours a week for a year.

MISS MOSES.

203.† THE ART OF PLAY PRODUCTION.

Theory and practice of play production. A brief survey of the theatre from the Greek and Roman periods to the Contemporary stage. Preparation of plays, acting and directing; lighting; costuming; scene design and construction. Several laboratory projects and one public production will be given each year.

Open to juniors and seniors. Four periods of lecture and laboratory a week, counting three hours a week for a year.

Director, MISS SMAILL.
Assistant, MISS GALLAGHER.

301. DRAMATIC INTERPRETATION OF SHAKESPEARE.

Two full plays, a comedy and a tragedy, will be studied for oral interpretation, and great scenes from these and other Shakespearean plays will be acted under student direction.

Open to students who have completed one three-hour course in the department, also to those who have completed or are taking English Literature 205 or 309. Three hours a week for a year.

MISS SMAILL.

† A special fee of \$25.00 is charged for Speech 203. Loans from the Malvina Bennett Fund for this fee are available for a limited number of students. The chairman of the department should be consulted.

ZOOLOGY AND PHYSIOLOGY

<i>Professors:</i>	MARIAN ELIZABETH HUBBARD, B.S. JULIA ELEANOR MOODY, Ph.D. (Chairman)
<i>Associate Professor:</i>	MARGARET ALGER HAYDEN, Ph.D.
<i>Assistant Professors:</i>	HELEN WARTON KAAN, Ph.D. HARRIET CUTLER WATERMAN, Ph.D. GLADYS KATHRYN MCCOSH, Ph.D. MARY LELLAH AUSTIN, Ph.D. ADA ROBERTA HALL, Ph.D.
<i>Instructors:</i>	MARGARET ELLIOTT VAN WINKLE, M.S. CURATOR OF MUSEUM. ROSEMARY ANNE MURPHY, M.A. HELEN ELIZABETH BUTTS, Ph.D. EVA ELIZABETH JONES, Ph.D. ALTHA LOUISE PALMER, M.S.
<i>Curator of Laboratories:</i>	ELEANOR LEACH, M.A.
<i>Laboratory Assistants:</i>	GWYNETH PEASE, B.A. MARCA ISABEL TALIAFERRO, B.A. PAULINE BURGESS ROHM, B.A.

***101. THE BIOLOGY OF ANIMALS.**

This course aims to furnish the basis for an intelligent understanding of animal life and of the place of man in the world of living things. The study of a series of forms of increasing complexity, culminating in a vertebrate, develops a conception of what an animal is and suggests probable evolutionary sequences. Cells are studied as units of structure and to demonstrate, particularly in germ-cells, the mechanism of heredity. Supplementing the facts gained in the laboratory, there runs through the second semester a series of lectures and discussions on the evidence and factors of evolution, on heredity and eugenics.

Open to all undergraduates. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for a year.

MISS HUBBARD, MISS HAYDEN, MISS MCCOSH, MISS AUSTIN,
MRS. VAN WINKLE, MISS BUTTS, MISS JONES, MISS PALMER.

ZOOLOGY

203. VERTEBRATE ZOOLOGY.

Evidences of evolution from the study of the comparative anatomy and the development of the vertebrates, based upon a careful dissection of dogfish, necturus, and cat. It is the aim throughout the course to trace the evolution of the vertebrate type from a primitive form to man, with particular emphasis upon the changes leading up to the structures found in the human body. Lectures, laboratory, and museum work.

Open to juniors and seniors without prerequisites, and to other students who have completed course 101. Five-year Hygiene students electing this course must also take course 301. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for a year.

MISS MOODY, MISS WATERMAN.

204. ANIMAL ECOLOGY.

A study of representative members of certain phyla based upon their distribution and natural history. Primary consideration will be given to animals in the local fauna. Special emphasis will be placed upon their behavior and activities, the relations existing between them and their environment, and their relations with each other. Observations will be made of those particular struc-

tures which fit animals for different modes of life, such as the divergent development of the food-taking apparatus, adaptive locomotor structures, and hibernating devices. Lectures, laboratory and field work.

Open to students who have completed course 101. Six periods a week, counting three hours a week for a year. MISS McCOSH.

301. MAMMALIAN ANATOMY (HYGIENE 301).

Lectures and laboratory work on the gross anatomy of bones and muscles.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students. If counted as part of a major in Zoölogy, course 301 should be preceded by course 101. Three periods a week, in general one of lecture, discussion or quiz, and two of laboratory, counting two hours a week for the first semester. MISS WATERMAN.

313. MAMMALIAN ANATOMY (HYGIENE 313).

Lectures and laboratory work on the digestive, respiratory, excretory, reproductive, circulatory, and nervous systems.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also of juniors who are registered as five-year Hygiene students with the exception of those students who have already completed course 203. If counted as part of a major in Zoölogy, course 313 should be preceded by courses 101 and 301. Three periods a week, in general one of lecture, discussion, or quiz, and two of laboratory, counting two hours a week for the second semester. MISS WATERMAN.

303. HISTOLOGY AND HISTOLOGICAL TECHNIQUE.

This course includes a study of the microscopic structure of the tissues and organs of mammals. Emphasis is laid on the relation of structure and function. Some training is given in the preparation of tissues for microscopical study.

Open to juniors and seniors who have completed or are taking course 203 or 204 or 308. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the first semester. MISS KAN.

304. EMBRYOLOGY.

This course deals with the development of an individual from its origin as a fertilized egg through the time of formation of the principal organs and systems. The maturation and function of the germ cells are also considered. Laboratory work is based chiefly on a study of chick and pig embryos.

Open to juniors and seniors who have completed or are taking course 203 or 204 or 308. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the second semester. MISS KAN.

305. THEORIES AND PROBLEMS OF ZOOLOGY.

A course dealing with the present-day theories and problems of Zoölogy, and the history of their development; including such questions as the origin of life, growth, and the theories and factors of evolution. Three hours are spent in lecture, reports, and discussions. One or two short papers are usually required.

Open to students completing a twelve-hour major, and under special conditions to others with the approval of the department. Three hours a week for the second semester.

MISS MOODY.

306. HEREDITY.

A study of the principles of heredity, based on the cytological and genetical evidence found in animals; the application of these principles to human inheritance and to the practical problems of eugenics. The class work is supplemented by a few practical breeding tests with *Drosophila* and guinea-pigs, carried on in the preparation time allotted to the course. There are no fixed hours for experimental work. Three hours are spent in lecture, reports, class discussion, and quizzes.

Open to students completing a twelve-hour major, to five-year Hygiene students completing a major in Zoölogy, and to others under certain conditions with the approval of the department. Three hours a week for the first semester.

MISS MOODY.

310. HISTOLOGY OF THE ORGANS (and Histological Technique).

This course continues the study of organs not included in course 303. Various aspects of histological research are considered in a series of reports on original papers. Individual problems afford practice in special methods of technique.

Open to juniors and seniors who have completed 303. Six periods a week, in general one of lecture or discussion and five of laboratory, counting three hours a week for the second semester.

MISS KAN.

314. CYTOLOGY. (Not given in 1934-35.)

This course treats of the biology of the cell, including the structure of protoplasm, nucleus, cytoplasm; the phenomena of mitosis, maturation, fertilization; the relation of cellular structure to sex and heredity. Some training is offered in the technique of microscopical preparation.

Open to approved students completing a twelve-hour major in Zoölogy. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for the first semester.

MISS HAYDEN.

315. PROTOZOÖLOGY.

This course will include (1) a study of the morphology, taxonomy, and interrelationships of the Protozoa, in order to introduce the student to the vast series of forms comprised in this group; (2) a study of their general physiology; (3) a consideration of some of the problems of broad biological significance illustrated by a study of the group.

Open to approved students completing a twelve-hour major in Zoölogy. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for the second semester.

MISS AUSTIN.

350. RESEARCH OR INDIVIDUAL STUDY.

This course offers elementary research problems in Histology, Embryology, Invertebrate and Vertebrate Zoölogy, Ecology, Cytology, Protozoölogy, and

Physiology. Independent work will be required of the student under the direction of the instructor in the field chosen.

Open to graduate students and, with the advice of the department, to approved seniors who have completed or who are completing a twelve-hour major in Zoölogy. Three to six periods a week, counting one and one-half to three hours a year, or six periods a week, counting three hours a week for a semester. For graduate students, three to twelve periods a week, counting one and one-half to six hours for the year, or six to twelve periods, counting three to six hours for a semester. The amount of work contemplated must be indicated at the time of handing in electives.

THE TEACHING STAFF.

PHYSIOLOGY

302. GENERAL PHYSIOLOGY (HYGIENE 302).

The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations, written reports, and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Required of first-year graduate students in the Department of Hygiene and Physical Education; also required of students registered for the five-year Hygiene course, either in the junior or senior year. If counted as part of a major in Zoölogy, course 302 should be preceded by course 101. Open to Hygiene students only; others take course 308. Six periods a week, in general two of lecture, discussion, or quiz and four of laboratory, counting three hours a week for a year.

MISS HALL.

308. GENERAL PHYSIOLOGY.

The course aims to give a fundamental knowledge of general physiological processes. It includes elementary physical and chemical phenomena of living organisms, and a study of the coördinated systems in mammalian forms. Lectures, demonstrations, written reports, and laboratory work cover simple chemical studies of the constituents of living matter, and observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities.

Open to students who offer as prerequisites Zoölogy 101 and Chemistry 101 or 102; or to students who in addition to fulfilling the Chemistry requirements have completed or are taking Zoölogy 203. Open by special permission without prerequisite to students majoring in Chemistry. Chemistry 301 is recommended as a parallel course. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for a year.

MISS MURPHY.

309. METABOLISM. (Not offered in 1934-35.)

A study of relationships involved in waste and repair in the animal body and in energy changes. The course will present nitrogen, mineral, and vitamin metabolism, and by feeding experiments with animals will illustrate characteristic deficiency conditions. The work on gaseous exchange will include a clinical

method of determining basal metabolism; also a consideration of the influence of internal secretions on the oxygen consumption, and the variations of the latter concomitant with disease.

Open to students who have completed course 308 or 302 and Chemistry 301. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for a year.

311. PHYSIOLOGY OF THE NERVOUS SYSTEM.

A study of the control of the animal organism through the central nervous system and the organs of special sense. The course includes a consideration of the theories of conductivity, and of the physiological basis of mental processes and behavior.

Open to students who have completed course 308 or 302. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the first semester.

MISS HALL.

312. PHYSIOLOGY OF NUTRITION.

The course includes the study of assimilation by tissue cells as well as the process involved in normal digestion and absorption of foodstuffs. Normal and faulty nutrition will be compared by feeding experiments with animals. Laboratory and written work will be individually assigned.

Open to students who have completed course 308 or 302. Chemistry 301 is not required as a prerequisite but is recommended. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS MURPHY.

316. PHYSIOLOGY OF THE ENDOCRINE GLANDS.

A study of the chemical control of the animal organism through the secretions of the endocrine glands. Individual problems will constitute a part of this course.

Open to students who have completed course 302 or 308. Six periods a week, in general two of lecture, discussion, or quiz, and four of laboratory, counting three hours a week for the second semester.

MISS HALL.

350. RESEARCH OR INDIVIDUAL STUDY.

(See Zoölogy.)

DIRECTIONS FOR ELECTION

These courses are designed to provide for the general student a basis for the interpretation of phenomena in the world of living things. At the same time they may furnish a foundation for students who plan to follow professionally some phase of biological work, such as teaching, research, laboratory technique, medicine, public health, physical education, nursing, medical social service.

Five-year Hygiene students wishing to major in the department should elect course 101 in the freshman or sophomore year, and courses 301, 313, 302, 306 in the junior and senior years.

Pre-medical students are referred to the requirements as given under electives, page 45.

For public health work, students are advised to elect courses 101 or 203, 308 and 303. Students majoring in Zoölogy are advised to include Botany 308 as part of the six or nine hour minor.

A major is based on course 101. A knowledge of Chemistry is required of all students majoring in Physiology and is desirable for all students majoring in the department. A reading knowledge of German will prove valuable.

Students majoring in Zoölogy or Physiology may under certain conditions obtain special permission from the Chemistry Department to take organic Chemistry, course 301, after having taken course 101.

Students who intend to major in Zoölogy or Physiology as a foundation for professional work are urged to consult with the department before completing their plans.

GENERAL EXAMINATION

The general examination will be based on the courses taken in the major subject. In the course of the year members of the department will meet major students to discuss methods of preparation for the examination. No summer reading is required but references will be given to students desiring them.

The purpose of the general examination is to test the student's knowledge of the fundamental principles underlying animal life, the essential facts involved and their significance. Four hours in one session will be allowed for the examination. The number of questions will be sufficient to permit adequate choice.

The following combinations are suggested as samples of a basis for the general examination:

- | | |
|--------------|--|
| (1) 101, 203 | } Plus six hours or more of grade III courses which may be chosen
in Zoölogy or Physiology or a combination of the two. |
| (2) 101, 204 | |
| (3) 101, 308 | |

It is desirable that the student consult with the department before electing her courses of grade III.

EXPENSES

<i>I. For resident students</i>		
Tuition for the year	\$500	
Board and room for the year	500	
	—	\$1,000
<i>II. For non-resident students</i>		
Tuition for the year	\$500	

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, \$50; a two-hour course, \$100; a three-hour course, \$150. Payment is due at the beginning of the year.

FIXED TIMES AND AMOUNTS OF PAYMENT

I. For students who room in college buildings

August 15		\$50
Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley Students' Aid Society can be applied on this payment. The deposit is not refundable.		
Unless requested the College does not expect to send receipts for this deposit, as cancelled checks will be receipts.		
September (at the opening of college)		
On account of tuition	\$250	
On account of board and room	250	
	—	500
February (before the beginning of the second semester)		
Balance on tuition	\$200	
Balance on board and room	250	
	—	450
Total for the year		\$1,000

The regular charge for board begins at the opening of college houses.

II. For students who do not room in college buildings


August 15	\$50
Deposit to reserve a place in college for the ensuing year. Failure to make such deposit will mean loss of enrollment. No part of any scholarship or loan awarded by Wellesley College and ordinarily no part of a grant from the Wellesley	


Students' Aid Society can be applied on this payment. The deposit is not refundable.


Unless requested the College does not expect to send receipts for this deposit, as cancelled checks will be receipts.

September (at the opening of college)	250
February (before the beginning of the second semester)	200
Total for the year	<u>450</u>
	\$500

Graduate and special students who do not live in college buildings make payment for room and board directly to the management of the private houses in which they have secured lodging and meals, at such rates and times as the parties to the arrangement may agree upon. Information regarding boarding places may be obtained by addressing the Dean of Residence.

 *Payments must be made before the student can take her place in the classroom. No exception will be made to this rule without a written permission from the Assistant Treasurer.*

 *Checks or money orders should be made payable to Wellesley College. If sent by mail, they should be addressed to the Assistant Treasurer.*

 *There are no deductions for absences, and no refunds save in exceptional cases of which the College shall be the sole judge.*

TUITION AND OTHER CHARGES IN DEPARTMENT OF MUSIC

For instruction for the college year in Pianoforte, Organ, Violin or Voice, two lessons a week	\$150
One lesson a week	75
(Lessons thirty minutes in length)	
For use of the Pianoforte, one period daily for the college year	15
For two or three periods daily, in proportion.	
For use of the Pipe Organ in Music Hall, one period daily for the college year	20
For two or three periods daily, in proportion.	

Special arrangements may be made for lessons on instruments not mentioned above.

Tuition in music is payable in advance in two equal installments, one at the beginning of each semester, and *is not subject to return or deduction* since no student may elect music for a shorter period than one semester.

FEEES

I. Undergraduate.

a. Application Fee.

An application fee of \$10 is required from all candidates for admission, and no application is recorded until the fee is received. The same fee is required from

all former students who apply for readmission. If the fee of \$10 for application for admission to college was paid *before* March 15, 1931, it will be credited on the first payment for tuition. As heretofore announced, application fees paid *after* March 15, 1931, will not be credited on any bill. If the application is cancelled *for any reason* the fee 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.


b. Diploma Fee.

At the time of taking the B.A. degree a diploma fee of \$10 is charged.

NOTE:—Every student should also reckon on an expenditure of \$15 to \$30 annually for the purchase of books.

II. Graduate.

A matriculation fee of \$5 is payable when an applicant is accepted as a graduate student. The amount of this fee will be deducted from the diploma fee of \$25 payable for the Master's degree, or from the fee of \$10 payable for the certificate in Hygiene and Physical Education.

 *No student may receive a diploma until a satisfactory settlement of all her college dues has been made.*

HALLS OF RESIDENCE

The residence halls within the limits of the campus are situated as follows: Hazard Quadrangle—Beebe, Cazenove, Pomeroy, Shafer, with Munger adjacent; Tower Court group—Clafin, Crawford, Severance, Tower Court; Stone group—Dower, Homestead, Olive Davis, Stone; Norumbega; Fiske. In addition to these houses the College maintains four houses on property immediately adjoining the college grounds: Eliot, Elms, Washington, Little, Clinton, and Noanett for freshmen; Crofton for graduate students. In all houses the rooms are furnished, and equipped with desk lamps. A Head of House, appointed by the President of the College, presides over each house.

Rooms are assigned to new students in the order in which their original application fees have been received.

HEALTH

The college physicians, together with the Director of the Department of Hygiene and Physical Education, and (*ex officio*) the President, the Dean of the College, the Dean of Residence, and the Class Deans constitute a board of health to which all matters affecting the health of students are referred. Simpson Cottage is maintained as an infirmary under the charge of the Resident Physician. Three trained nurses are in constant attendance. The privileges of the infirmary, when prescribed by the Resident Physician, are open to all students without charge for a period not exceeding seven days, provided no extra service is required. There will be a charge at the rate of \$2.25 a day for periods exceeding seven days. Charges for extra service will be determined by the

amount required. The services of the college physicians for consultation and treatment are free to all students.

FELLOWSHIPS AND SCHOLARSHIPS

A. FOR GRADUATES

THE ALICE FREEMAN PALMER FELLOWSHIP, yielding an income of not less than \$1,400, was founded in 1903, by Mrs. David P. Kimball. The holder of this fellowship must be a graduate of Wellesley College or of 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. 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 first of the academic year preceding that for which the fellowship is asked. A form to be used in making application may be obtained from the Office of the President, Wellesley College. This application must be accompanied by theses or papers presenting evidence of the most advanced work of the candidate, since the fellowship is not assigned on the basis of unsupported credentials, however commendatory.

FANNY BULLOCK WORKMAN SCHOLARSHIP, yielding an income of not less than \$1,200, was founded in 1929 by the bequest of Mrs. Fanny Bullock Workman.

The holder of this scholarship shall be a woman holding a degree from Wellesley College. She shall present evidence of (a) good health, (b) character, (c) financial need, and (d) ability; and shall be free from personal obligation which would interfere with study. The scholarship may be used to assist preparation for "any useful work." Twice during the period of tenure the holder of the scholarship shall furnish evidence of work done; and not later than one year after the completion of the period, a full report or other suitable evidence of the use to which the scholarship has been applied shall be presented.

The application for this scholarship should be received by the President of Wellesley College not later than February first of the academic year preceding that for which the scholarship is asked. A form to be used in making application may be obtained from the Office of the President, Wellesley College. The application must be accompanied by evidence of the most advanced work of the candidate in her chosen field.

THE HORTON-HALLOWELL FELLOWSHIP has been established by the Alumnae Association of Wellesley College in honor of Mary E. Horton, the first professor of Greek, and Susan M. Hallowell, the first professor of Botany. It is open to

alumnae of Wellesley College for graduate study in candidacy for the degree of Doctor of Philosophy or for private research of equivalent standard. The amount of the fellowship for 1934-35 is \$1,250.

Application should be made by letter from the candidate to the Fellowship Committee of the Alumnae Association making the award. The applicant should describe fully the plan of study which she proposes to follow if granted the fellowship, and her preparation for this work. The letter should be accompanied by such specimens of the written work of the candidate as may best demonstrate her ability to carry on independent study in her chosen field. Before making formal application the candidate should obtain more detailed information from the committee.

Applications should be received before February fifteenth of the year preceding that for which the fellowship is desired. All communications regarding the fellowship should be addressed to the Chairman of the Fellowship Committee, Alumnae Office, Wellesley College.

RESEARCH FELLOWSHIP FOR THE STUDY OF ORTHOPÆDICS IN RELATION TO HYGIENE AND PHYSICAL EDUCATION, yielding \$1,000.

The general requirements to be met by applicants are as follows:—good health; the bachelor's degree from a college or university of good standing; sound preparation in chemistry, physics, and biology; special preparation in anatomy, kinesiology, and physiology; familiarity with the elements of orthopædic theory and practice; and an insight into some one or more of the problems of orthopædics as related to hygiene and physical education.

The work on the problem chosen in consultation with the department must be done in residence at Wellesley College. It will, in general, begin in the September following the acceptance of the applicant, and will continue through one calendar year. It will involve kinesiology, applied physiology, and the study of clinical material. For the latter, opportunity will be provided to study the work of orthopædic surgeons in Boston and other eastern cities. The results of the investigation are to be embodied in a thesis to be submitted to the department and published.

Applications for this fellowship should be received by the Chairman of Department of Hygiene and Physical Education, Wellesley College, not later than March first of the academic year preceding that for which the fellowship is asked. The decision reached by the department will be based upon the applicant's record, upon personal correspondence, and, when possible, upon personal interviews.

THE LORETTA FISH CARNEY MEMORIAL SCHOLARSHIP, yielding an income of not less than \$48, was founded in 1920 by the alumnae and staff of the Boston Normal School of Gymnastics and the Department of Hygiene and Physical Education of Wellesley College; the income of this fund to be awarded, at the discretion of the teaching staff of the department and of the President of the College, to a second-year student in the department.

THE AMY MORRIS HOMANS SCHOLARSHIP FUND, yielding an income of not less than \$268, was founded in 1924 by the Mary Hemenway Alumnae Association of the Graduate Department of Hygiene and Physical Education in honor

of Miss Amy Morris Homans, pioneer and leader in physical education in the United States; the income of this fund to be awarded to a student in the Graduate Department of Hygiene and Physical Education who is in need of assistance and shows proficiency and promise.

THE TRUSTEE GRADUATE SCHOLARSHIPS. Two scholarships yielding an income of \$750 each have been established by the Trustees of Wellesley College for members of the senior class who are qualified for graduate work. The scholarships may be used for study in this country or abroad. Notice of the conditions of application are sent by the Dean of Graduate Students in the spring of each year to qualified seniors.

EIGHTEEN GRADUATE SCHOLARSHIPS of the annual value of tuition for one year have been established for the benefit of approved candidates for the Master's degree in residence at Wellesley College. Application for one of these scholarships should be made before March first by personal letter from the candidate to the Dean of Graduate Students, Wellesley College, stating the applicant's reasons for desiring to do graduate work in the department chosen, and her reason for applying for the scholarship. The application should be accompanied by letters of recommendation from persons familiar with the candidate's college work, and by a doctor's certificate of health. The award will be made after the candidate's formal application for admission to graduate work has been accepted.

Laboratory assistants and other members of the official staff of the College are granted the privileges of graduate study without tuition charge.

GRADUATE STUDY IN CLASSICS:—

The American School of Classical Studies in Athens offers special opportunity for graduate study in Greek. Membership without tuition,* is open to all graduates and graduate students of Wellesley College who have done sufficient work in Greek and Archæology to profit by the opportunity. The object of the School is to furnish an opportunity to study in Greece the literature, art, antiquities, and history of the country under suitable guidance; to prosecute and to aid original research in these subjects; and to assist in the exploration and excavation of classic sites. Three fellowships of \$1,000 each are awarded annually on the basis of competitive examinations and are open to graduates of the co-operating colleges of which Wellesley College is one. For further information apply to Assistant Professor McCarthy.

The American School of Classical Studies in Rome is an integral part of the American Academy. The object of this School is to promote the study of classical literature in its bearing upon antiquities and history; of classical, Etruscan, and Italian art and archæology, including topography, palæography, and epigraphy, and of the art and archæology of the early Christian, Mediæval, and Renaissance periods within the boundaries of Italy. It furnishes regular instruction and guidance in some or all of these subjects, encourages and assists in original research and exploration. Students should have the ability to read ordinary Greek and Latin prose at sight and to use French and German as in-

* The income of the Julia Josephine Irvine Fund makes possible the studentships in the American School of Classical Studies in Athens.

struments of research; they will find an elementary knowledge of Italian very useful. Those admitted are expected to put themselves under the guidance of the Director of the Academy and the Professor in charge of the Classical School for the full period of eight months. Duly qualified graduates of Wellesley College are exempt from any charge for tuition. Three Fellowships in the School of Classical Studies are offered by the Academy, each with a stipend of \$1,500 a year for two years, and an allowance of \$500 for transportation to and from Rome. The academic year begins on the first day of October and students are expected to report in Rome at the Academy on that day. A Summer School established in 1923 offers a program of great value for students and teachers of the classics. For further information application may be made to Associate Professor A. Bertha Miller.

SCHOLARSHIPS IN THE MARINE BIOLOGICAL LABORATORY AT WOODS HOLE.— Admission to courses at Woods Hole is upon a selective basis. Wellesley College offers annually two scholarships to applicants who are successful candidates. This laboratory is primarily for research, but in the summer courses of instruction are offered, four in Zoölogy and one in Botany. The purpose of these courses is to aid in the production and training of investigators, and first consideration is given to persons who, whether graduate or undergraduate, give promise of contributing to the advancement of science. Applicants must have completed at least two full college courses in the subject in which they wish to work. The laboratory offers, besides these courses of instruction, opportunity for research, either directed or independent. In addition, there are courses of lectures on special topics and on subjects of general biological interest.

Applicants should state the character of the work to be done, whether botanical or zoölogical, whether courses of instruction are desired, or investigation under direction. All applications should be sent to Professor Snow or Professor Moody in time to reach Wellesley College before April first. These applications will be forwarded to Woods Hole to be acted upon May fifteenth; after this date notification will be sent to the successful candidates.

B. FOR UNDERGRADUATES

The scholarships listed are awarded in recognition of genuine pecuniary need and of satisfactory character, college citizenship, health, and intellectual and practical ability as tested by a year or more of life and study at Wellesley College. The foundations are of varying amounts, and the income is apportioned as justly as possible according to need and merit. These scholarships are intended primarily for students who have completed one or more years' work at Wellesley College. Provision for new students and additional provision for other students has been made as indicated below.

Beginning with the academic year 1926-27 the Trustees have set aside annually a sum for the aid of students of recognized intellectual ability who are financially unable to meet the charges for tuition and residence. The scholarships vary from \$100 to \$500, and are awarded on the basis of merit with due consideration to need, scholarship attainment, and personal qualities. *Applications from students in college* must be filed with the Executive Secretary of the College, who is Chairman of the Faculty Committee on Scholarships, before

March first on forms furnished for the purpose and in accordance with the instructions posted in February of each year.

SCHOLARSHIPS FOR FRESHMEN. Six competitive scholarships are awarded annually on the basis of entrance examinations to members of the freshman class needing financial assistance. One of these scholarships, for \$600, will be given to the freshman who has made the highest average grade in her entrance examinations. The other five scholarships, for \$500 each, will be assigned by districts in the following divisions of states: New England, Middle Atlantic, Southern, Middle Western, and Far Western. In each district the freshman making the highest examination grade will ordinarily receive the award, but if no student attains a sufficiently high average, the award will not be made. Three regional scholarships, for \$300 each, are open to candidates of good scholastic standing and evident promise from the Middle West, Far West, and South. As funds permit, additional freshmen are aided by scholarships of \$100 to \$200 in the second semester.

Applications from all candidates for admission should be made to the Dean of Freshmen before March first of the year of admission.

Munger Hall, a coöperative house, accommodating 111, is open to self-helping students of the three upper classes. For the year 1934-35 Norumbega Hall, accommodating 50 students, will also be used as a coöperative house. Twenty places in this house are reserved for freshmen. An award of a place in a coöperative house is considered a part of the total scholarship grant.

The Personnel Bureau is actively engaged in bringing students into connection with work to be done for compensation within the College and in the neighborhood, but such employment, since it makes a distinct draft upon strength and time, is hardly to be advised for the freshman year.

Another source of pecuniary aid is the work of the Students' Aid Society established by the founders of Wellesley College and revived and incorporated by the alumnae of the College in April, 1916. Distributions are made both in gifts and in loans without interest. The existing funds are not sufficient for the work in behalf of students which the Society aims to do, and contributions of any amount will be gladly received by the treasurer of the Society, Miss Ruby Willis, care of Wellesley College.

I. SCHOLARSHIPS

ADAMS SCHOLARSHIP FUND of \$2,200, founded in 1907 by bequest of Adoniram J. Adams of Boston.

ALDRICH SCHOLARSHIP FUND of \$650, founded in 1931 by bequest of Alzora Aldrich of the class of 1896.

EDITH BAKER SCHOLARSHIP of \$7,800, founded in 1892 by bequest of Mrs. Eleanor J. W. Baker, in memory of her daughter.

WALTER BAKER MEMORIAL SCHOLARSHIP of \$7,800, founded in 1880 by Mrs. Eleanor J. W. Baker and increased by her bequest in 1892, in memory of her son.

- DR. ALMA EMERSON BEALE SCHOLARSHIP FUND of \$3,300, founded in 1917 by bequest of Dr. Alma E. Beale of the class of 1891.
- CHARLES BILL SCHOLARSHIP FUND of \$7,800, founded in 1898 by bequest of Charles Bill.
- CHARLES B. BOTSFORD SCHOLARSHIP FUND of \$5,600, founded in 1920 by bequest of Lucy A. Botsford.
- MARIAN KINNEY BROOKINGS SCHOLARSHIP FUND of \$5,000 founded in 1929 by Mrs. Selina M. Kinney, in memory of her daughter, of the class of 1904.
- FLORENCE N. BROWN MEMORIAL SCHOLARSHIP of \$5,600, founded in 1880 by Mr. and Mrs. Samuel N. Brown, Jr., in memory of their daughter.
- EMILY GRACE BULL SCHOLARSHIP of \$20,000 founded in 1930 by bequest of Mrs. E. Grace Bull Morse of the class of 1899.
- ARTHUR L. CARNS FUND of \$10,000, founded in 1931 by bequest of Arthur L. Carns.
- MARY CASWELL MEMORIAL SCHOLARSHIP of \$5,404, founded in 1928 by Miss Caswell's faculty and alumnae friends.
- AUGUSTUS R. CLARK MEMORIAL SCHOLARSHIP of \$5,600, founded in 1880 by Mr. and Mrs. A. N. Clark.
- CLASS OF 1880 SCHOLARSHIP of \$1,194, founded in 1930 by the class of 1880.
- CLASS OF 1884 SCHOLARSHIP FUND of \$6,510, founded in 1919 by the class, and increased in 1928 by bequest of Clara Brewster Potwin of the class of 1884.
- CLASS OF 1889 MEMORIAL SCHOLARSHIP of \$1,100, founded in 1904 by the class, in memory of classmates who had died.
- CLASS OF 1893 MEMORIAL SCHOLARSHIP FUND of \$5,600, founded in 1913 by the class, in memory of Laura Jones Miller and Carrie A. Mann.
- CLASS OF 1916 SCHOLARSHIP FUND of \$1,601, founded in 1933 by the class of 1916.
- ABBIE A. COBURN MEMORIAL SCHOLARSHIP of \$2,200, founded in 1892 by Mrs. Coburn.
- CONNECTICUT SCHOLARSHIP of \$5,600, founded in 1912 by bequest of Mrs. Louise Frisbie.
- MARGARET McCLUNG COWAN FUND of \$1,100, founded in 1888 by Rev. and Mrs. P. D. Cowan, in memory of their daughter.
- ELIZABETH AND SUSAN CUSHMAN FUND of \$23,610, founded in 1923 by bequest of Susan L. Cushman of the class of 1891.

- GEORGE H. DAVENPORT SCHOLARSHIP of \$10,000, founded in 1933 by bequest of George H. Davenport, a former member of the Board of Trustees.
- NORMA LIEBERMAN DECKER SCHOLARSHIP FUND of \$5,487, founded in 1924 by Mrs. Emma Lieberman in memory of her daughter, Mrs. Decker, of the class of 1911.
- DURANT MEMORIAL SCHOLARSHIP of \$5,600, founded in 1883 by the officers and students of Wellesley College, in honor of Henry F. Durant.
- PAULINE A. DURANT SCHOLARSHIP of \$8,250, founded in 1880 by Mr. and Mrs. Henry F. Durant, and increased in 1919 by bequest of Mrs. Durant.
- JOHN DWIGHT MEMORIAL SCHOLARSHIP of \$10,000, founded in 1930 by William Scott Lyon.
- EMMELAR SCHOLARSHIP of \$5,600, founded in 1889 by the Class of 1891.
- RUBY FRANCES HOWE FARWELL MEMORIAL SCHOLARSHIP of \$2,100, founded in 1926 by John W. Farwell, in memory of his wife.
- ELIZABETH S. FISKE SCHOLARSHIP of \$5,600, founded in 1904 by bequest of Miss Fiske.
- JOSEPH N. FISKE MEMORIAL SCHOLARSHIP of \$9,000, founded in 1892 by Mrs. Fiske.
- RUFUS S. FROST SCHOLARSHIPS of \$1,100, and \$5,600, founded in 1880 by Mr. Frost.
- HOWARD COGSWELL FURMAN SCHOLARSHIP of \$5,000, founded in 1928 by Mrs. Eleanor Van Allen Furman.
- MARY ELIZABETH GERE SCHOLARSHIP FUND of \$5,600, founded in 1900 by bequest of Mary Elizabeth Gere.
- JOSEPHINE KEENE GIFFORD SCHOLARSHIP of \$2,000, founded in 1932 by Mrs. Jarvis B. Keene, in memory of her daughter, of the class of 1917.
- GOODWIN SCHOLARSHIP of \$5,600, founded in 1897 by Mrs. Hannah B. Goodwin, a former member of the Board of Trustees.
- HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1896 and increased in 1901 by Helen Miller Gould Shepard in memory of her mother.
- HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1899 and increased in 1901 by Helen Miller Gould Shepard.
- HELEN DAY GOULD SCHOLARSHIP of \$11,200, founded in 1901 by Helen Miller Gould Shepard.
- M. ELIZABETH GRAY SCHOLARSHIPS of \$11,200, founded in 1914 by bequest of William J. Gray.

- GROVER SCHOLARSHIP of \$5,600, founded in 1878 by William O. Grover.
- SARAH EVELYN HALL SCHOLARSHIP FUND of \$5,000, bequeathed in 1911 by Sarah Evelyn Hall of the class of 1879 as a scholarship fund subject to annuity, became available for scholarships in 1930.
- CORA STICKNEY HARPER FUND of \$2,200, founded in 1915 by bequest of Mrs. Harper of the class of 1880.
- EMILY P. HIDDEN SCHOLARSHIP FUND of \$2,200, founded in 1909 by bequest of Emily P. Hidden.
- WINIFRED FRANCES HILL SCHOLARSHIP of \$20,000, founded in 1928 by bequest of Ida Parker Hill.
- SARAH J. HOLBROOK SCHOLARSHIP of \$3,300, founded in 1898 by bequest of Sarah J. Holbrook.
- EVELYN AND MARY ELIZABETH HOLMES SCHOLARSHIP FUND of \$6,000, founded in 1930 by bequest of Evelyn Holmes, sister of Mary Elizabeth Holmes of the class of 1892.
- SARAH J. HOUGHTON MEMORIAL SCHOLARSHIP of \$6,700, founded in 1889, in memory of his wife, by William S. Houghton, a former member of the Board of Trustees.
- ADA L. HOWARD SCHOLARSHIP of \$6,700, founded in 1895 in honor of Miss Howard, the first President of the College.
- SARAH B. HYDE SCHOLARSHIP of \$2,200, founded in 1898 by bequest of Sarah B. Hyde.
- JOHN AND JANE JACKSON FUND of \$1,000, founded in 1932 by Margaret H. Jackson.
- ELIZA C. JEWETT SCHOLARSHIPS of \$6,700, founded in 1894.
- SOPHIE JEWETT MEMORIAL SCHOLARSHIP of \$1,100, founded in 1911 by Elsa D. James Garvin of the class of 1906 in memory of Sophie Jewett, instructor and associate professor of English Literature 1889-1909.
- MILDRED KEIM FUND of \$11,200, founded in 1912 by Newton and Frances S. Keim in memory of their daughter Mildred, until her junior year a member of the class of 1912.
- KATHARINE KNAPP SCHOLARSHIP of \$5,600, founded in 1920 by bequest of Katharine Knapp.
- VINNIETTA JUNE LIBBEY SCHOLARSHIP of \$3,818, founded in 1932 by bequest of Vinnietta June Libbey.
- GERTRUDE C. MUNGER SCHOLARSHIPS of \$10,587, founded in 1930 by gift of Miss Jessie Munger of the class of 1887.

- ANNA S. NEWMAN MEMORIAL SCHOLARSHIP of \$2,100 founded in 1913, through gifts from former students.
- NEW YORK WELLESLEY CLUB SCHOLARSHIP FUND of \$6,225, founded in 1930 by the New York Wellesley Club.
- NORTHFIELD SEMINARY SCHOLARSHIP of \$5,600, founded in 1878.
- ANNA PALEN SCHOLARSHIP of \$11,200, founded in 1902.
- MARY ARNOLD PETRIE SCHOLARSHIP of \$4,130, founded in 1934 by bequest of Mrs. Anna A. Petrie, in memory of her daughter.
- ADELAIDE L. PIERCE SCHOLARSHIP FUND of \$14,806, founded in 1933 by bequest of Helen A. Pierce of the class of 1891, in memory of her mother.
- ELEANOR PILLSBURY MEMORIAL SCHOLARSHIP FUND of \$106,500, founded in 1926 by Mr. and Mrs. Cyrus H. K. Curtis, in memory of their daughter, Eleanor Pillsbury Pennell of the class of 1913.
- PITTSBURGH WELLESLEY CLUB SCHOLARSHIP of \$1,500, founded in 1932 by the Pittsburgh Wellesley Club.
- CATHERINE AYER RANSOM SCHOLARSHIP of \$1,100, founded in 1908 by bequest of Mrs. Ransom.
- MAE RICE MEMORIAL SCHOLARSHIP FUND of \$1,100, founded in 1905 by the class of 1902, in memory of their classmate.
- SAMUEL M. AND ANNA M. RICHARDSON FUND of \$101,584, founded in 1931 by bequest of Samuel M. Richardson, and increased in 1933 by bequest of Mrs. Richardson.
- ROLLINS SCHOLARSHIP of \$9,000, founded in 1903 by Augusta and Hannah H. Rollins, in memory of their parents.
- HELEN J. SANBORN ALUMNAE SCHOLARSHIP FUND of \$11,200, founded in 1905 by Helen J. Sanborn of the class of 1884.
- OLIVER N., MARY C., AND MARY SHANNON FUND of \$18,550, founded in 1916 by bequest of Mary Shannon.
- HARRIET F. SMITH SCHOLARSHIP FUND of \$22,500, founded in 1881 by Henry Fowle Durant, in memory of his mother.
- STOCKWELL MEMORIAL SCHOLARSHIP of \$2,000, founded in 1930 by bequest of Marie Louise Stockwell of the class of 1897.
- STONE EDUCATIONAL FUND of \$28,100, founded in 1884 by Valeria G. Stone.
- SWEATMAN SCHOLARSHIP of \$5,600, founded in 1880 by V. Clement Sweatman.
- JESSIE GOFF TALCOTT FUND of \$538,686, founded in 1931 by bequest of Mrs. Elizabeth R. Stevens, who stipulated that one-half of the income be used for scholarships.

- JULIA BALL THAYER SCHOLARSHIP of \$6,700, founded in 1907 by bequest of Mrs. Julia Ball Thayer.
- JANE TOPLIFF MEMORIAL SCHOLARSHIP of \$6,700, founded in 1883 by Mrs. William S. Houghton, in memory of her mother.
- ANN MORTON TOWLE MEMORIAL SCHOLARSHIP of \$5,600, founded in 1901 by bequest of George Francis Towle.
- GEORGE WILLIAM TOWLE MEMORIAL SCHOLARSHIP FUND of \$7,550 founded in 1901 by bequest of George Francis Towle, in memory of his father.
- MARIE LOUISE TUCK SCHOLARSHIP FUND of \$11,200, founded in 1919 by bequest of Miss Alice C. Tuck, in memory of her sister of the class of 1883.
- UNION CHURCH SCHOLARSHIP of \$2,800, founded in 1880 by Mr. and Mrs. A. W. Stetson.
- WESTON SCHOLARSHIP of \$5,600, founded in 1878 by David M. Weston.
- JEANNIE L. WHITE SCHOLARSHIP of \$5,600, founded in 1886 by herself.
- AMASA J. WHITING SCHOLARSHIP of \$2,600, founded in 1928 by bequest of Mrs. May C. W. Speare, in memory of her father.
- ANNIE M. WOOD SCHOLARSHIP of \$11,200, founded in 1880 by her husband, Frank Wood, and increased by his bequest in 1915.
- CAROLINE A. WOOD SCHOLARSHIP of \$5,600, the first scholarship of the college, founded in 1878 by Mrs. Caroline A. Wood, in memory of her husband, Caleb Wood.
- WARREN MEAD WRIGHT SCHOLARSHIP FUND of \$10,000 founded in 1931, in memory of her son, by Mrs. George S. Wright of the class of 1881.

II. LOAN FUNDS

- MCDONALD-ELLIS MEMORIAL of \$1,000, founded in 1908 by former students of the McDonald-Ellis School of Washington, D. C., in memory of the late principals of the school, and increased in 1926 by gift of Jessie C. McDonald of the class of 1888.
- HELEN A. SHAFER LOAN FUND of \$1,000, founded in 1930 by bequest of Mary L. Sawyer of the class of 1888.

III. PRIZE FUNDS

The income of these funds is assigned for excellence in the subjects indicated.

BILLINGS PRIZE FUND (*Music*).

KATHARINE COMAN MEMORIAL PRIZE FUND (*Economics and Social History*).

DAVENPORT PRIZE FUND (*Oral Interpretation*).

ISABELLE EASTMAN FISK PRIZE FUND (*Public Speaking or Debating*).

SOPHIA HELEN FISK FUND (*Crew*).

MARY G. HILLMAN MATHEMATICAL SCHOLARSHIP (*Mathematics*).

JACQUELINE AWARD (*English Composition*).

MARY WHITE PETERSON PRIZE FUND (*Botany, Chemistry, Zoölogy*).

STIMSON MATHEMATICAL SCHOLARSHIP (*Mathematics*).

ETHEL FOLGER WILLIAMS MEMORIAL FUND (*German*).

PERSONNEL BUREAU

The staff of the Personnel Bureau consists of a Director, a Consultant, an Associate, an Appointment Secretary, and two assistants.

The Personnel Bureau is a central depository of the individual histories of the students as collected from the records of grades, from interviews, personality ratings by the faculty, psychological tests, health reports, and extra-curricular activities, and is maintained for furnishing material of value in educational and vocational advising. The Bureau is in active coöperation with other administrative offices by means of the Personnel Board. This is composed of the President of the College, the Deans, the Recorder, the Health Officer, the Resident Physician, the Professor of Psychology, and the Director of the Personnel Bureau. Meetings are held from time to time for the consideration of personnel questions and methods of procedure.

The Personnel Bureau, established by the Founders as the Teachers' Registry, includes also in its scope the placement of graduates in teaching and in business positions, and the work of the Committee on Vocational Information, which arranges lectures and discussions on occupations. Registration for placement is open to all who have taken courses in Wellesley College, and seniors are invited to register during their residence at the College. The Bureau maintains files, collects credentials, and is the source of information concerning the vocational equipment and experience of Wellesley women. The registration fee is \$2.00 for life membership, and no commission is charged for placement. The Bureau also registers undergraduates and alumnae for summer work, and has charge of undergraduate employment.

EQUIPMENT

HETTY H. R. GREEN HALL, the administration building, contains the offices of the President and other officers of administration, class and seminar rooms, the faculty assembly hall, and offices of student organizations.

FOUNDERS HALL, a building for lecture rooms and department offices pertaining to instruction in the Liberal Arts, was opened for use in September, 1919. The hall was built from the Restoration Fund, secured for the College through trustees, faculty, alumnae, and other friends, and replaces in some part College Hall, the first and main building of the College, destroyed by fire, March 17, 1914.

The building is dedicated as a memorial to the Founders of the College, Henry Fowle Durant and his wife, Pauline Adeline Durant.

THE LIBRARY of the College, endowed by Eben Norton Horsford, now numbers over 150,000 bound volumes, including the departmental libraries. The books in the General Library building form a collection chosen primarily for the use of students and instructors in the college courses in Literature and Languages, History, Economics, Sociology, Philosophy, Education, Religious History, and certain of the sciences. The General Library is open on week days from 8:10 A.M. to 9:30 P.M., and on Sundays from 2:30 to 5:30 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 to train students in methods of research.

The Library subscribes for more than six hundred American and foreign periodicals, including daily newspapers representing different sections of the United States, besides representative British and Continental dailies.

The Library has also many special collections of great interest and value to the student doing graduate or other research work. Among the most valuable of these are the Plimpton Collection, established by Mr. George A. Plimpton in memory of his wife, Frances Pearsons Plimpton, of the class of 1884, which comprises over a thousand volumes of Italian books and manuscripts chiefly of the Renaissance; the Ruskin Collection, the gift of Mr. Charles E. Goodspeed; and the Collection of Early and Rare Editions of English Poetry given for the most part by Professor George Herbert Palmer.

The Brooks Memorial Room, opened in 1921, provides comfortable and beautiful surroundings with carefully selected books for leisure hours of reading.

The following departmental libraries are located in the buildings of the respective departments: Art, Astronomy, Botany, Chemistry, Hygiene, Music, and Zoölogy.

FARNSWORTH ART BUILDING.—The Farnsworth Art building was the gift of the late Isaac D. Farnsworth in 1889. It contains lecture rooms and exhibition galleries and is used by the department of Art for its library, study rooms, and studios.

Through the active interest of friends of the College, the Museum contains a representative selection of Egyptian minor arts; the M. Day Kimball collection of classical sculpture; examples of Graeco-Buddhist stucco sculpture from Kashmir; a fragment of mosaic excavated at Antioch in 1932; a few Italian primitives; a 16th century tapestry; a bronze by Kolbe; an early Corot; an attributed Morland; the Cumæan Sibyl by Elihu Vedder; the Spanish Cavalier by Frank Duveneck; and a portrait study by Whistler.

Further information may be found in the Art Museum Bulletin.

MUSIC HALL AND BILLINGS HALL are large brick buildings, devoted to the department of Music. Music Hall contains offices, studios, and practice rooms equipped with thirty-seven new pianos of standard makes, three victrolas and a Mason and Hamlin Ampico; also a large room, containing a two-manual pipe organ for the use of the organ pupils. Billings Hall, opened in 1904, contains the offices of the Professor of Music and the Assistant, the library, and a class-

room for instruction in Musical Theory; also a concert room with a seating capacity of 330 people, containing a grand piano, a clavichord, a victrola, and the Grover organ—a three-manual organ, rebuilt and modernized by the Estey Organ Company.

The Music Library includes a collection of manuscripts, about twenty-one hundred scores and two thousand reference books on musical subjects. The department owns about five hundred records for the victrola and fifty ampic rolls.

ALUMNAE HALL, the gift of the alumnae for a recreation centre, contains an auditorium seating 1,570, a hall for college dances, a library, committee rooms for the use of alumnae and students, and full equipment for entertaining.

LABORATORIES AND SCIENTIFIC COLLECTIONS

ASTRONOMY.—The Whitin Observatory is a one-story building of brick, faced with white marble, situated on a small hill on the college grounds, and devoted entirely to the use of the department of Astronomy. It contains two rooms surmounted by rotating domes, twenty-five feet and twelve and one-half feet in diameter respectively; a transit room; a spectroscopic laboratory; a large, well-lighted room for elementary laboratory work; and another large room in which is kept the department library. In the larger dome room is mounted a twelve-inch Clark equatorial refracting telescope, which is provided with a filar micrometer, a polarizing photometer, and an attachment for photographing the moon. The smaller dome contains a six-inch Clark refractor, which is provided with an electric driving clock, a filar micrometer, a wedge photometer, and an Evershed protuberance spectroscope, and which may be used as a guiding telescope for a small photographic camera. Both domes are rotated by electric motors. In the transit room is mounted a Bamberg prismatic transit of three inches aperture. A four-inch telescope with objective by Browning is mounted in a south wall of the building, with the eye end inside and the optic axis parallel to the axis of the Earth; a plane mirror beneath the object-glass reflects into the latter the light of the object observed. In the spectroscopic laboratory are a Hale spectroheliometer and a small Rowland concave grating spectroscope. The Observatory is supplied with two Howard sidereal clocks, a Bond mean-time chronometer, and a chronograph, any of which may be connected electrically through a switch-board with keys near the various telescopes; a Berger surveyor's transit; a 60-mm. Zeiss tripod telescope; two calculating machines; a Gaertner comparator for measuring spectrograms; a projecting lantern and about 1,200 astronomical lantern slides; and a large collection of illustrative apparatus and photographs. A flat portion of the roof of the neighboring Sage Hall is fitted with illuminated desks for the use of astronomy students during naked-eye study of the sky.

Observatory House, the residence of the Director of the Observatory, is nearby. Both the Observatory and the house, and also much of the astronomical equipment, are the gift of the late Mrs. John C. Whitin.

BOTANY.—The department of Botany occupies a modern building (Sage Hall) with laboratories, research rooms, offices, etc., fully equipped for general and

special work. Connecting with the building at three points is a range of modern greenhouses consisting of a large palm house and fourteen smaller houses.

The illustrative collections comprise an herbarium of some eighty thousand sheets, a working museum of more than five thousand specimens, and a large collection of lantern slides and microscopical mounts. The department has an "Outdoor Laboratory" for the use of certain courses. The greenhouses contribute to all the courses in the department, but are of especial importance in connection with the work in landscape gardening, physiology, ecology, taxonomy, and genetics. The native flora about Wellesley is easily accessible, furnishing a convenient field for both the taxonomist and ecologist. The Susan M. Hallowell Memorial Library is exceptionally well supplied with reference works and with current periodicals.

CHEMISTRY.—The department of Chemistry occupies a separate but temporary building which contains two lecture rooms and the chemical library in addition to separate, well-equipped laboratories for work in general chemistry, qualitative and quantitative analysis, organic chemistry, food and physiological chemistry, and physical chemistry. A modern building, completely equipped for the work of the department, is being erected and should be ready for use in September, 1935.

The tables in the lecture rooms are equipped with hot and cold water, gas, compressed air, and both direct and alternating current. There is also available for use in lecture demonstration a comprehensive group of apparatus for special experiments. A Bausch and Lomb Balopticon for both lantern slide and opaque projection has recently been added as an important adjunct to the lecture equipment.

An electric still keeps the analytical laboratories on both floors supplied with distilled water. The work in qualitative analysis has been greatly facilitated by the installation of a tank of liquid hydrogen sulphide outside the building. From this tank the gas is piped to the hoods in both the qualitative and quantitative laboratories. The quantitative laboratory is the most recent addition to the building. It is fitted with metal desks with alberene tops. These desks were especially designed for the particular apparatus used in such work.

GEOLOGY AND GEOGRAPHY.—The department of Geology and Geography has a large and well equipped lecture hall, a small lecture room, and two laboratories. Both lecture rooms are equipped with projecting lanterns.

The museum and laboratory material of the department includes a typical collection of dynamical and structural geology specimens, systematic mineralogical and petrographic collections, and a wide variety of fossils. These collections are all the generous gifts of colleges, museums, and friends. The department has two noteworthy collections. The first is the Horace I. Johnson Mineral Collection, which consists of five thousand valuable and beautiful mineral specimens, including many precious metals and stones. This collection is the gift of the late Mr. John Merton, and was presented through the Class of 1915 by the courtesy of Miss M. Helen Merton. The second is the Reverend David F. Pierce Collection, which includes a complete and rare collection of building and ornamental stones and many precious and semi-precious minerals. This collection is the gift of Professor Frederick E. Pierce of Yale, Miss Anna H. Pierce, and Miss Mary E. Pierce of the Class of 1898.

The maps of the department include many large scale wall maps, maps of the United States Coast and Geodetic Survey, and complete files of geologic folios and topographic maps of the United States Geologic Survey. In addition several thousand topographic maps and folios are arranged in collections for individual use in the laboratory. The department has an excellent assortment of lantern slides which illustrate many phases of geology and geography.

HYGIENE AND PHYSICAL EDUCATION.—The department of Hygiene and Physical Education occupies Mary Hemenway Hall on the western border of the college grounds. The equipment of the department is designed for the application of modern science to the maintenance and promotion of health and for education through motor activity.

Mary Hemenway Hall includes a large well-lighted gymnasium with ample shower facilities, administrative offices, class rooms, and laboratories for anatomy, physiology, hygiene, anthropometry, corrective exercise, and research.

Unusual facilities for outdoor activities are provided as follows: one six-target archery range, six volley ball, four basket ball, and twenty-two tennis courts; one baseball diamond, two hockey and lacrosse fields, one 100-yard straight-away track and jumping pits; and a nine-hole golf course. Bridle paths are available for horseback riding. Close by, on Lake Waban, are two boat-houses, with canoes, eight-oared shells, and motor boat for coaching and safety patrol. The Lake provides opportunity for swimming in the spring and fall terms, and for skating in the winter. The campus is well adapted to skiing, snowshoeing, and coasting.

The department library in Mary Hemenway Hall contains 4,300 volumes, a collection of valuable pamphlets, and regularly receives 50 periodicals dealing with matters related to hygiene and physical education.

MATHEMATICS.—The department has a collection of 45 Brill-Schilling models of surfaces, chiefly of the second and third orders, and a lantern for use with large thread models in the study of skew curves, beside several simple models, including some made by its members. There is a fine transit for the use of classes in trigonometry, and a computing machine, used in the classes in statistics.

PHYSICS.—The department of Physics occupies as temporary quarters three floors in an old building. There are two lecture rooms, fitted with direct and alternating current, gas and compressed air, and separate laboratories for general physics, electricity, and light. In connection with the advanced laboratories there are dark rooms and several small rooms which can be used for research or for individual experiments requiring special conditions. The equipment is thoroughly modern. The lecture apparatus is sufficient to permit a wide range of experiments. In the elementary laboratory, duplication of apparatus permits a close coördination between lectures and laboratory exercises. The equipment for advanced laboratory work is especially strong in electrical and optical apparatus. It includes unusual equipment for experiments in electric oscillations; a Hilger quartz spectrograph and constant deviation spectrometer; a Weiss electromagnet, a Bragg X-ray spectrometer, etc.

There is connected with the laboratory a machine shop in charge of a mechanic who makes and repairs apparatus as needed.

A modern building, completely equipped for the work of the department, is under construction and should be ready for use in September, 1935.

PSYCHOLOGY.—The laboratory is housed in a building which is located in a quiet spot and which contains sixteen rooms with good electrical connections. Two dark rooms and a workshop are included. The equipment is adequate for demonstration, for general experimental work, and for many lines of research.

A modern building, completely equipped for the experimental work of the department, is under construction and should be ready for use in September, 1935.

ZOÖLOGY AND PHYSIOLOGY.—The department of Zoölogy and Physiology occupies a modern building (Sage Hall), containing lecture rooms, laboratories, research rooms, a library—a memorial to Caroline B. Thompson,—a museum, and a vivarium, which includes mammal rooms and runways and a large aquarium room containing frog and turtle pools, tanks for salt and fresh water forms and for tropical fishes. The museum material includes a collection of New England birds; an interesting collection of birds and bird-skins from Peru, the gift of Mrs. Graham Ker; and a valuable collection of shells, the gift of Mrs. Rebecca S. Beaman of Cambridge.

DEGREES CONFERRED IN 1934

MASTER OF ARTS

- MADY AFFRE, *English Literature*.
 BARBARA ALDEN (B.A., Wellesley College, 1933), *English Literature*.
 MILDRED BARISH (B.A., Columbia University, Barnard College, 1933), *English Composition*.
 ALICE ROSS BENNETT (B.A., Wellesley College, 1929), *French*.
 JESSIE JUNE BURROWAY (B.A., College of Wooster, 1932), *History*.
 EILEEN EDITH CHATER (B.A., Wellesley College, 1930), *Education*.
 SARA TOD DELANEY (B.A., Wellesley College, 1929), *Education*.
 ANNA LOUISE DUNHAM (B.A., Wellesley College, 1932), *Botany*.
 MARGARET LORRAINE HOFFMAN (B.A., College of St. Rose, 1933), *English Literature*.
 JEAN ELAINE HOWE (B.A., Mount Holyoke College, 1933), *English Literature*.
 CORDELIA CRAFTS JOB (B.A., Smith College, 1929), *Education*.
 ELAINE MARGARET LAUGHLIN (B.A., Macalester College, 1931), *English Literature*.
 MARJORIE JANE LEVY (B.A., Wellesley College, 1932), *Astronomy*.
 ENID STANLEA LUCAS (B.A., Wellesley College, 1933), *German*.
 ALDA JULIETTE MARTELL (B.A. in Journalism, University of Washington, 1932), *English Composition*.
 FRANCES BURNS MAYNARD (B.A., Meredith College, 1933), *English Literature*.
 ANITA OYARZABAL, *Spanish*.
 EVELYN KENDRICK WELLS (B.A., Wellesley College, 1913), *English Literature*.
 ADELE WALTERS WESLEY (B.A., Wellesley College, 1931), *Botany*.
 MARIAN ELEANOR WHITNEY (B.A., Wellesley College, 1932), *Physics*.

MASTER OF SCIENCE IN HYGIENE AND PHYSICAL EDUCATION

- VIRGINIA PATRICIA CLEARY (B.A., Boston University, College of Liberal Arts, 1931).
 JEAN HELEN HARRIS (B.A., Wellesley College, 1929).
 ISABELLE MARIE KIRCH (B.A., Wellesley College, 1932).
 CAROLYN JEAN NICE (B.A., Earlham College, 1930).
 JOY BEACH RINALDO (B.A., Grinnell College, 1932).
 KATHARINE FULLER WELLS (B.S. in Education, New York University, 1929).

BACHELOR OF ARTS

ELIZABETH LOGAN ADAMS
 RUTH LOUISE ADELSON
 ELIZABETH CHASE AERY
 SYLVIA MAE ALLEN
 ESTELLE ANDERSON
 MARY LOUISE ATANASOFF
 ELIZABETH AULD
 MARY CHAPIN AUTEN
 CAROLINE-MARIA AVERILL
 DOROTHY ELIZABETH AVERY
 ELIZABETH BABCOCK
 MARTHA JANE BAER
 ALICE BAKER
 PHEBE LYNDE BALLOU
 JOSEPHINE RUSLING BATES
 MARY LOUISE BEAKES
 MARGARET HARLAN BEALE
 SUSAN FARRINGTON BEDAL
 ADELE MARGARET BEHM
 KATHRYN PARMELEE BENEDICT
 CONSTANCE WORTH BENNETT
 EMILY ALICE BENT
 RUTH BERGESON
 BERNICE BERNSTEIN
 FLORENCE RUTH BINSWANGER
 THELMA MAE BLACKMORE
 MAE BLISS
 BETTYE PRISCILLA BOESHAAR
 HELEN ELIZABETH BORINSTEIN
 PHYLLIS BOURNE
 HELEN PARKER BOWLBY
 OLIVE LYNDA BOWN
 HARRIET JANE BRADY
 SARAH TUTTLE BRAMAN
 MARY KATHERINE BRITTON
 MYRTLE RUTH BUCKLER
 CATHERINE BERNADINE BUCKLEY
 MARJORIE ELIZABETH BURDSALL
 MADELINE BURLINGAME
 JOSEPHINE BURROUGHS
 JANE BUSTEED
 HELEN MAXINE BUTCHER
 CHARLOTTE KATHRYN CARL
 MARGARET LLEWELLYN CARTER
 RUTH ELIZABETH CARTER
 CAROLYN CASPER
 MARY ANNE CASSELBERRY
 JANE CHASNOFF
 DOROTHY MARGARET CHILDS
 CLARA FRANCES CLAPP
 DELPHINE HARRIET CLARKE
 GAIL CLAWSON
 MARY DEAN CLEMENT
 MAY ROSE CLYMER
 ELSA DAVIDSON COHEN
 JOAN COLLINGWOOD
 PAULINE CONGDON
 CHARLOTTE ELEANOR COOK
 NANCY LORENZ COOPER
 MARGARETTA RODGERS COWENHOVEN
 ELEANOR FLEMING CRITCHLOW
 ELEANOR MARY DAVIS
 MARY EDITHA DAVIS
 IDA ADELAIDE DEAR
 CHARY ESTHER DEMAREST
 CHARLOTTE LOUISE DONALDSON
 LUCILE DONALDSON
 PRISCILLA BRADSTREET DORMAN
 MARTHA MARGARET DOTY
 JULIA DRAKE
 CYNTHIA DUDLEY
 BETSY DUPUIS
 MARJORIE WILSON DYKEMAN
 LAURA LOUISE EALES
 GRACE MARY EARLEY
 MARY ALICE EATON
 DOROTHY KENNEDY EGGLESTON
 HELEN MAR EICHELBERGER
 EDITH LEVY ELSAS
 JANET LOGAN EMERSON
 DOROTHY EVANS
 MARY DOUGLAS EVANS
 JEAN EATON FARLEIGH
 MARY HAZLETT FERGUSON
 HARRIET FURNISS FERNALD
 MARY LEWIS FINCH
 MILDRED SYLVIA FINESTONE
 MARJORIE FISHEL
 LUCILE ELISE FLACCUS
 JUDITH DUDLEY FOLK
 BARBARA FORSCH
 ELIZABETH GILBERT FORSYTH
 MARGERY SOMERS FOSTER
 MARTHA ROWLES FOSTER
 ELSIE BRADLEY FOWLER
 OLGA FRANKEL
 CHURCHILL SUSAN FRESHMAN
 ELIZABETH BLANCHARD FURMAN
 VIOLET GANG
 JESSIE WILLIAMS GARDNER
 ELINOR GAY
 EVELYN GERTRUDE GLADE
 ETHEL BELLE GLASS
 JESSAMINE ROBERTA GOERNER
 RITA JANE GOLDMANN
 CAROLINE SERVICE GOODSSELL
 ELIZABETH LUCILLE GRAFFAM
 ANNE ELLSWORTH GRANT
 RUTH ISABEL GRAY
 MARY LILLY GRENACHER
 RUTH ESTHER GREW
 FREDA GROSS
 MIRIAM WRIGHT GUERNSEY
 ISABEL GULICK
 RUTH ELIZABETH HACKLEY
 JESSIE LOUISE HAIG
 ANNA MITCHELL HALE
 ELLEN STEVENS HALL
 RUTH GERTRUDE HALL
 VIRGINIA HALL
 EDITH EUGÉNIE HARCOMBE
 CATHERINE ROWENA HATHAWAY
 MARY JANE HAYES
 MILDRED ETHEL HELLER
 MARY LUISE HENRY
 DOROTHY WALLACE HEREFORD
 MARY KNOWLES HIGGINS
 ERNA EUGENIA HOPMANN
 ANNE FRENCH HOGE
 BARBARA HOLTON
 FRANCES HARRIET HOOD
 EMILY HOWARD HOPKINSON
 REBECCA McDOWELL HERR
 SARA LOUISE HOUSTON

GRACE ELIZABETH HOYER
 NATALIE HUBBEL
 JULIA MARY HUDDLESTON
 KATHRYN ROSEMARY HULL
 MARY JANE HUMES
 ELIZABETH PAULINE IMRIE
 ANNE CAROLYN JACKSON
 NANCY ANNE JACOBS
 PATRICIA JAMESON
 IRÈNE MARGUERITE JARDÉ
 DORCAS ELIZABETH JENCKS
 ALICE ELIZABETH JENKINS
 SARAH FRANCES JESSUP
 MARIAN ADRIANCE JOHNSON
 GWYNETH EVANS KAHN
 JANE BODYCOMB KAISER
 NORMA GRETEL KARSTEN
 MARIE FREDERICKA KASS
 MARY ELIZABETH KEENE
 MARGARET CLARE KENNEY
 GRACE KERNS
 HELEN MARGARET KEYSER
 CONSTANCE ELEANOR KIMBALL
 ELIZABETH LOUISE KINGSBURY
 BERNICE DOROTHY KIRSHEN
 THERESA ANN KNOPF
 MARY WALLACE KNOTT
 SHIRLEY MARGARET KNOWLES
 HERMIONE GERTRUDE KOPP
 EDDA KREINER
 ELIZABETH ANNE LAWRIE
 SARAH CORNELIA LAWTON
 VIRGINIA SARAH LEES
 MARTHA AGNES LEICH
 KATE NATALIE LEVINE
 MARY JOSEPHINE LINDH
 HELEN HERTZLER LONG
 VALERIE DOROTHY LONGSDORF
 ANNE HILTON LORD
 MARION ELIZABETH LOVE
 VIRGINIA BURTT LOW
 FLORENCE ELIZABETH LUDLUM
 NANCY HELEN LYON
 FRANCES PATRICIA MCCARTHY
 JANE LORINDA MACFARLANE
 JEAN MOORE MCINTOSH
 ALICE CLAIRE MCKEON
 MARGARET STEEVES MACRAE
 MILDRED ALMA MAHER
 MARY HARRIET MAIER
 FLORENCE CELIA MAISEL
 NORMA EVELYN MARKELL
 RUTH CLAIRE MARKS
 EVELYN MARVIN
 PHYLLIS AYMAR MEACON
 MARION LINDON MELLUS
 GRACE ELIZABETH METZGER
 HARRIET FAUST METZGER
 ANN MILNER MICHOD
 ADRIANNE MILLER
 MARJORIE EMILIE MILLER
 MARY LETITIA MILLER
 GRACE DEVORA MITCHELL
 ANTOINETTE MARGARET MONTGOMERY
 DRUCELIA MOORHOUSE
 DOROTHY JEANNETTE MORRIS
 MARJORIE MORSE
 JEAN PATTERSON MORTON
 MARGERY IVOLUE MUNCASTER
 CONSTANCE MURDOCH
 AUDREY VIRGINIA MUSSER
 EDITH FELICITAS MUTHER
 ELIZABETH KING NEILL
 HELEN FELICIA NESTELLE
 KAREN BREVARD NISBET
 ANN BOWEN NOLD
 LOUISE NYITRAY
 HELEN ELIZABETH OAKLEY
 ELEANOR AMANDA ODE
 MARY IONE O'REILLY
 MARY ELEANOR O'TOOLE
 ALICE MARY OXTOBY
 CAROLYN ALICE PALMER
 PATRICIA FITZ RANDOLPH PARFITT
 MIRIAM ELIZABETH PERRY
 NATALIE PETERSON
 AZÉLIE WINIFRED PHILLIPS
 JEANETTE TENNEY POORE
 JEWELL VICTORIA POORMAN
 BARBARA POTTER
 KATHRYN SUE POTTER
 DOROTHY HOPE RANSOM
 CHARLOTTE REED
 DOROTHY MILLER REHRIG
 CHARLOTTE RICE
 MARY VIRGINIA RICE
 HELEN CHARLOTTE RICHARDS
 VIRGINIA RICHARDS
 KATHERINE ALMA RIEDL
 ANN FARRAR ROBERTS
 SHIRLEY RUTH ROME
 CYNTHIA ROOT
 ELIZABETH RUSSELL
 JEAN ROSALYN SACKS
 BERNICE GALPIN SAFFORD
 DOROTHY WENTWORTH SANBORN
 FRANCES MARIE SARNER
 JEAN SCHAFFNER
 ADA MAE SCHOENBERG
 CHARLOTTE MARY SCHULTZ
 EVELYN LOUISE SCHUMACHER
 ANNA ALICE SEGAL
 MARÍA EUGENIA SEÍN-CEBOLLERO
 HELEN VIRGINIA SHAW
 BETTY JANE SHEAFFER
 ALICE EVELYN SHEEHY
 PANSY REVA SIEGEL
 MILDRED SIMENDINGER
 BARBARA SMITH
 ELIZABETH STRATTON SMITH
 EUGENIA CAROLYN SMITH
 JUDITH DUDLEY SMITH
 MIRIAM EUNICE SOBEL
 JEANNE FARLEY SPENCER
 PAULINE GERTRUDE STARKS
 RUTH STEVENSON
 VIRGINIA PARKER STEVENSON
 HELEN DOROTHY STIX
 ELIZABETH BOND STOUT
 MARGARET ANNE STOWELL
 DORIS LYDIA STURTEVANT
 FRANCES JOAN ROYLE SULLIVAN
 HARRIET HEADLEY SUMMERS
 ELIZA WILLIAMS TAFT
 ELLEN SCRANTON TAYLOR
 JANE ANN TAYLOR
 MARTHA EMILIE TAYLOR
 MARY TAYLOR
 ANN PULSIFER THAYER
 ADELAIDE WILLIAMS THOMPSON
 ALICE JOSEPHINE THOMPSON
 JEAN ELIZABETH THOMPSON

HELEN MORGAN TOBY
 LOIS TORRANCE
 MARGARET VIRGINIA TORRANCE
 NINA JULIA TUCKER
 CAROLYN FRANCES TYLER
 ANN DALE UPSON
 MARY FRANCES VALDINA
 GERAIDINE ALICE VERGE
 EMILY VIVIAN
 GRACE THOMAS VOYLE
 MARY AUSTIN WALKER
 MARY ELISABETH WALWORTH
 ELEANOR WASHINGTON
 ELINOR MARX WEIS
 LOUISE JOYCE WENGER
 MARY ELIZABETH WETMORE

MARY EMELINE WHITE
 RUTH CAROLYN WIGGINS
 ELEANOR SISSON WILCOX
 MARIAN LOCKHART WILCOX
 CHARLOTTE TAINTOR WILLIAMS
 MABEL WILLIAMS
 PHYLLIS LOURENE WILLIAMS
 LILLIAN ELENA WILLIAMSON
 NELL MCGORDON WILLMANN
 ALMA LACKEY WILSON
 ELIZABETH CECIL WILSON
 HARRIET ELLIS WILSON
 VIRGINIA WILSON
 LOUISE WIRE
 ANNE FERGUSON WOLFE
 MARGARET YELLAND

CERTIFICATE OF THE DEPARTMENT OF HYGIENE AND PHYSICAL EDUCATION

JEANETTE CUTTS (B.A., Bates College, 1930).
 FRANCES ELIZABETH LOOMIS (B.A., Wellesley College, 1933).
 HELEN WALLACE MCCOLL (B.A., Converse College, 1932).
 MARY BERRIEN NEVIUS (B.A., Wilson College, 1932).
 CAROLYN JEAN NICE (B.A., Earlham College, 1930).
 JOY BEACH RINALDO (B.A., Grinnell College, 1932).

HONORS IN A SPECIAL FIELD

ELIZABETH LOGAN ADAMS

Andrew Marvell: Liberal of the Seventeenth Century?

BERNICE BERNSTEIN

Euripides as a Source for the Study of Athenian Social Customs

CAROLYN CASPER

Trade-Union Methods in Periods of Depression

DELPHINE HARRIET CLARKE

Galacturonic Acid as a Scurvy Preventive

CHURCHILL SUSAN FRESHMAN

English Voyages of Trade and Exploration in the Sixteenth and Seventeenth Centuries and their Reflections in the Literature of the Same Period

JESSAMINE ROBERTA GOERNER

The Spectroheliograph and Solar Phenomena in 1933-1934

FRANCES HARRIET HOOD

Federal Reserve Policy During the Depression

IRÈNE MARGUERITE JARDÉ

Iconography of Scenes from the Life of Christ at San Marco, Venice

MARY LETITIA MILLER

Purchasing Power in the Present Depression

PATRICIA FITZ RANDOLPH PARFITT

Lucian's Attitude toward Philosophy

MARY EMELINE WHITE

Middle West Utilities Company: The Rise and Fall of an Empire

MABEL WILLIAMS

A Study of the Major Rock Formations and Mineral Deposits of East Central New Hampshire and Adjacent Sections of Western Maine

PRIZES

KATHARINE COMAN MEMORIAL PRIZE, for Economic and Social History

LENORE ALICE EPSTEIN

DAVENPORT PRIZE, for excellence in Speech

ELLEN EUSTIS PUGH

ERASMUS HISTORY PRIZE

ELIZA WILLIAMS TAFT

ISABELLE EASTMAN FISK PRIZE, for excellence in Public Speaking

BERNICE LIBMAN

MARY G. HILLMAN PRIZE IN MATHEMATICS

ELLA GREEN PECK

JACQUELINE AWARD, for excellence in English Composition

JESSIE WILLIAMS GARDNER

JOHN MASEFIELD PRIZE, for excellence in Prose Writing

ELEANOR WASHINGTON

JOHN MASEFIELD PRIZE, for excellence in Verse Writing

MARY VIRGINIA RICE

MARY WHITE PETERSON PRIZE IN CHEMISTRY

DELPHINE HARRIET CLARKE

LEWIS ATTERBURY STIMSON PRIZE IN MATHEMATICS

MARY DEAN CLEMENT

SCHOLARSHIPS AND FELLOWSHIPS

GRADUATE SCHOLARSHIPS AWARDED TO MEMBERS OF THE
SENIOR CLASS

MARY ALICE EATON
HERMIONE GERTRUDE KOPP
MARY VIRGINIA RICE

HORTON-HALLOWELL FELLOWSHIP

Awarded for the year 1934-35 to GRACE LOUISE ROSE, B.A., Wellesley College,
1930; candidate for the degree of Ph.D. at Johns Hopkins University
Subject: *Greek*

ALICE FREEMAN PALMER FELLOWSHIP

Awarded for the year 1934-35 to HELEN MARGARET FRANC, B.A., Wellesley
College, 1929; M.A., New York University, 1931; Brevet de la Sorbonne,
University of Paris, 1932; Eleonora Duse Fellow of the Italy America
Society in 1932-33; candidate for the degree of Ph.D. at New York Uni-
versity

Subject: *Art*

FANNY BULLOCK WORKMAN SCHOLARSHIP

Awarded for the year 1934-35 to FLORENCE HEDWIG KNAUF, B.A., Goucher
College, 1925; M.S. in Hygiene and Physical Education, Wellesley College,
1928; candidate for the degree of Ph.D. at Radcliffe College
Subject: *Physiology*

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.

DURANT SCHOLARS

APPOINTED IN 1934

Class of 1934

PHEBE LYNDE BALLOU
BERNICE BERNSTEIN
THELMA MAE BLACKMORE
BETTYE PRISCILLA BOESHAAR
JANE CHASNOFF
DELPHINE HARRIET CLARKE
MARTHA MARGARET DOTY
MARY ALICE EATON
EDITH LEVY ELSAS
JESSAMINE ROBERTA GOERNER
MARY JANE HAYES
MARIAN ADRIANCE JOHNSON

HERMIONE GERTRUDE KOPP
KATE NATALIE LEVINE
HARRIET FAUST METZGER
CONSTANCE MURDOCH
KAREN BREVARD NISBET
CAROLYN ALICE PALMER
MARY VIRGINIA RICE
MILDRED SIMENDINGER
BARBARA SMITH
GERALDINE ALICE VERGE
MABEL WILLIAMS

Class of 1935

JANE WEBSTER BADGER
RUTH BILSKY
RUTH BOSCHWITZ
RUTH ELEANOR CORTELL
DOROTHY GILLETTE DISSELL
BETTY VIRGINIA DOYLE
LENORE ALICE EPSTEIN
JEAN PRISCILLA HARRINGTON

MARTHA ELDORA HATHAWAY
BELLA KUSSY
FLORENCE LYONS
GERTRUDE ELIZABETH McIVER
MARJORIE CLARA MORRIS
DOROTHY VIRGINIA ROSE
ELLA MESSINGER UHLER

WELLESLEY COLLEGE SCHOLARS

APPOINTED IN 1934

Class of 1934

ELIZABETH LOGAN ADAMS
ELIZABETH CHASE AERY
DOROTHY ELIZABETH AVERY
MAE BLISS
OLIVE LYNDA BOWN
CAROLYN CASPER
MARY DEAN CLEMENT
MAY ROSE CLYMER
LUCILE DONALDSON
HARRIET FURNISS FERNALD
LUCILE ELISE FLACCUS
ELSIE BRADLEY FOWLER
CHURCHILL SUSAN FRESHMAN
VIOLET GANG
ETHEL BELLE GLASS
RUTH ISABEL GRAY
FRANCES HARRIET HOOD
GRACE ELIZABETH HOYER
IRÈNE MARGUERITE JARDÉ
MARY JOSEPHINE LINDH
VALERIE DOROTHY LONGSDORF
FLORENCE ELIZABETH LUDLUM

ALICE CLAIRE McKEON
FLORENCE CELIA MAISEL
RUTH CLAIRE MARKS
MARION LINDON MELLUS
MARY LETITIA MILLER
DRUCELIA MOORHOUSE
ELIZABETH KING NEILL
PATRICIA FITZ RANDOLPH PAREITT
KATHRYN SUE POTTER
ADA MAE SCHOENBERG
BETTY JANE SHEAFFER
PANSY REVA SIEGEL
ELIZABETH STRATTON SMITH
VIRGINIA PARKER STEVENSON
HELEN DOROTHY STIX
HELEN MORGAN TOBY
MARGARET VIRGINIA TORRANCE
MARY FRANCES VALDINA
MARY EMELINE WHITE
RUTH CAROLYN WIGGINS
ANNE FERGUSON WOLFE

Class of 1935

PAULINE ARKUS
DOROTHY BRADFORD BELT
ELIZABETH LOUISE BILLINGS
ESTHER PENNY BOUTCHER
ELISE BRISTOL
HELEN FRANCES BROWN
JANET DANBY BROWN
DORIS CARPENTR
MARGOT CLARK
EMILY ROGERS DENTON
ESTHER EPSTEIN
HULDA ELIZABETH FORNELL
MARY ELIZABETH FREAR
JANET EVA FRENCH
MARY MARGARET GIBBONS
MARJORIE ISABELLE GREENE
MARGARET LOUISE HARRIS
ELSA SERGE JAFFIN
DORIS WOODBURY JONES
GENEVIEVE LOUISE KNUPFER
KATHARINE BORDEN LAKE
MARGARET LEE

ELIZABETH McCLINTIC
MARJORIE MERRITT
EDITH KITZMILLER MILLER
EUNICE LAWRENCE NEEDHAM
JEANETTE NELSON
JEAN ELIZABETH NEWLAND
RUTH NICHOLSON
ANNA-MARIE O'CONNOR
ELEANOR PEASE
JEWELL MARIE PETERSON
VIRGINIA NATHALIE PEUGNET
VIRGINIA WASHBURN PEYSER
MICAELA CONSTANCE PHELAN
RUTH PITCAIRN
BARBARA PORTEOUS
JANE POSNER
JEANETTE SAYRE
MARJORIE ESTHER SHUMACKER
ESTHER HARDING SWAFFIELD
ELEANOR FRANCES TARR
GERTRUDE THOMAS
MARION VIOLA ZOTTOLI

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 the aid of deserving students in Wellesley College.

SUMMARY OF STUDENTS

Resident candidates for the M.A. degree	29
Resident candidates for the M.S. degree in H. & P. E.	16
Resident candidates for the Certificate in H. & P. E.	12
Candidates for the B.A. degree:	
Seniors	296
Juniors	346
Sophomores	379
Freshmen	454
	1,475
Non-candidates for degrees	21
	1,553
Duplicates	12
	1,541
Total registration November, 1934	
	1,541
Junior in France	1
Junior in Spain	1

United States:	Ohio	70
Alabama	Oklahoma	3
Arizona	Pennsylvania	128
Arkansas	Rhode Island	29
California	South Carolina	3
Colorado	Tennessee	10
Connecticut	Texas	19
Delaware	Utah	2
District of Columbia	Vermont	11
Florida	Virginia	12
Georgia	Washington	4
Idaho	West Virginia	4
Illinois	Wisconsin	11
Indiana	Wyoming	3
Iowa	Canal Zone	5
Kansas	Porto Rico	1
Kentucky	Other Countries:	
Louisiana	Belgium	1
Maine	Canada	7
Maryland	Chile	1
Massachusetts	China	4
Michigan	Egypt	1
Minnesota	England	1
Missouri	France	1
Montana	Greece	1
New Hampshire	Japan	1
New Jersey	Mexico	1
New York	Turkey	1
North Carolina		

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MARION MILLS BROWN (MRS. RALPH C.), <i>President</i>	722 Prospect Ave., Winnetka, Ill.
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ALMA SEIPP HAY (MRS. WILLIAM SHERMAN), <i>2nd Vice-President</i>	645 Sheridan Rd., Winnetka, Ill.
JOY SCHEIDENHELM TAYLOR (MRS. ALFRED H.), <i>Secretary</i>	528 Madison Ave., Glencoe, Ill.
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CALIFORNIA

Central, Caroline Frear Burk (Mrs. Frederic), 1925 Tenth Ave., Oakland
Southern, Helen Quinn Hogeboom (Mrs. F. E.), 127 North Lucerne Blvd., Los Angeles

CANADA

Montreal, Elizabeth Quimby Pineo (Mrs. C. C.), 3000 Breslay Rd.

CHINA

Elsie Sites Raven (Mrs. Franklin), 955 Avenue Joffre, Shanghai

COLORADO STATE

Helen Stone Philpott (Mrs. O. S.), 1970 Glencoe St., Denver

CONNECTICUT

¹³⁴ *Bridgeport*, Miss Bertha S. Watson, 822 Colorado Ave.
⁸ *Hartford*, Marion Whipple Mackay (Mrs. K. T.), 47 Four Mile Rd., West Hartford
² *New Haven*, Alice Poole Hall (Mrs. E. J.), 376 Yale Ave.
Waterbury, Ruth Hart Butler (Mrs. J. I.), 28 Buckingham St.

DISTRICT OF COLUMBIA

Virginia Weakley Roberts (Mrs. D. F.), 4600 Langdrum Lane, Chevy Chase, Md.

FLORIDA

Carrie Summers McCaskill (Mrs. G. E.), 1556 N. W. South River Dr., Miami

HAWAII

Helen Gunner Schull (Mrs. H. W., Jr.), Scofield Barracks, Honolulu

ILLINOIS

Chicago, Marguerite Stitt Church (Mrs. Ralph), 300 Church St., Evanston

INDIANA

Florence Goodrich Dunn (Mrs. F. W.), 4138 North Penn. St., Indianapolis

IOWA STATE

Esther Woodford Ashland (Mrs. L. E.), Clear Lake

JAPAN

Betsey Baird Neville (Mrs. E. L.), American Embassy, Tokyo

KENTUCKY

Anna Kent Moore (Mrs. J. W.), R.R. I, Box 454, Upper River Rd., Louisville

MAINE

Eastern, Caroline Weatherbee Tarbell (Mrs. P. H.), 188 Broadway, Bangor
Western, Marjorie Shurtleff Poole (Mrs. P. P.), R.F.D. 4, Cumberland Foreside

MARYLAND

Baltimore, Jeannette Brown Copeland (Mrs. M. M.), Warrington Apts. 7-B

MASSACHUSETTS

Berkshire County, Miss Fanny G. Clark, 15 Maud St., Pittsfield
Boston, Marjorie Ely Monroe (Mrs. R. T.), 87 Greenough St., Brookline
Fitchburg, Nina Hill Beverly (Mrs. H. M.), 12 High St., Ayer
Haerhill, Miss Clara L. Hunking, 26 Park St.
Lowell, Miss Louise P. Holden, R.F.D. 2, Locke Rd., Chelmsford
Middlesex, Irma Port Cheney, St. Mark's Rectory, Southboro
North Shore, Florence Phillips Cooke (Mrs. T. C.), 40 Atlantic Rd., Swampscott
Quincy, Miss Rosamund Barney, 32 Greenleaf St.
Southeastern, Julia Locke Dewey (Mrs. Arthur), 29 Arch St., New Bedford
Springfield, Pau'ine Leonard Lawrence (Mrs. R. E.), 136 Westmoreland Ave., Longmeadow
Winchester, Dorothy Graef Sanderson (Mrs. E. W.), 7 Marshall Rd.
Worcester, Miss Rachel Clark, 12 Germain St.

MICHIGAN

Detroit, Charlotte Henze Decker (Mrs. J. R.), 2136 Seminole Ave.
Western, Kathryn Albin Hodgman (Mrs. A. B.), 1029 W. North St., Kalamazoo

MINNESOTA

Minneapolis, Katherine Coan Carleton (Mrs. F. P.), 2421 Lake Pl.
St. Paul, Lillian Blekkink Osborn (Mrs. S. A.), 884 Linwood Pl.

MISSOURI

Kansas City, Erni Stubs Berkowitz (Mrs. W. J.), 1047 West 53 St. Ter.
St. Louis, Miss Helen C. Koch, 5601 Vernon Ave.

NEBRASKA

Omaha, Helen Krug Shukert (Mrs. G. E., Jr.), 4804 Dodge St.

NEW HAMPSHIRE

Merrimack Valley, Beatrice Henley Matthews (Mrs. E. C.), 736 Middle St., Portsmouth

NEW JERSEY

Cornelia Deming Van Arnam (Mrs. Wm. D.), 424 Clark St., South Orange

NEW YORK

Brooklyn, Miss Frances Riley, 447 Rugby Rd.
Buffalo, Hortense Barcalo Reed (Mrs. J. McW.), 50 Ashland Ave.
Eastern, Thelma Wade Holding (Mrs. Reynolds), Hotel Wellington, Albany
Elmira, Camilla Bryan Lowman (Mrs. A. M.), 702 Hoffman St.
Ithaca, Frances Ingalls Briggs (Mrs. T. R.), 113 Ithaca Rd.
New York, Marion Harbison Thayer (Mrs. W. G., Jr.), 228 East 71 St.
Rochester, Dorothy Hunting D'Amanda (Mrs. Francis), 69 Brunswick St.
Syracuse, Miss Grace Rockwood, 310 Roosevelt Ave.
Troy, Miss Rebecca Flint, Russell Sage College
Utica, Lilla Hoxes Lee (Mrs. Franklin), P. O. Box 383, 143 Farmington Rd.
Wellsey-In-Westchester, Margaret Noyes Skinner (Mrs. Ross), 111 Wildwood Rd., New Rochelle

OHIO

Akron, Katharine Baird Johnson (Mrs. A. C.), 654 N. Portage Path
Cincinnati, Miss Anna Long, 1283 Michigan Ave.
Cleveland, Miss Bessie S. Smith, 2504 Derbyshire Rd., Cleveland Heights
Columbus, Lelia Timberman Smith (Mrs. W. A.), 2612 Fair Ave.
Toledo, Alice Kirkbride Davis (Mrs. G. M.), 2125 Wyndhurst Rd.
Youngstown, Miss Marion Maiden, 240 Curry Pl.

OREGON

Portland, Mary Atkinson Tracy, 2656 S. W. Gerald St.

PENNSYLVANIA

Philadelphia, Dorothy Spellissy Watson, (Mrs. Seth W.), 308 West Horrtter St., Germantown
Pittsburgh, Marion Gaston Ballard (Mrs. J. D.), 1422 Greystone Dr.
Scranton, Miss Ellen M. Fulton, 1737 Capouse Ave.
Southeastern, Sara Truby Hiney (Mrs. Solomon), Cottage Hill, Steelton

RHODE ISLAND

Maud Arnold Barnefield (Mrs. R. T.), 97 Summit St., Pawtucket

TEXAS

San Antonio, Margaret Hale Thorne (Mrs. G. G.), 1023 W. Magnolia St.

UTAH

Salt Lake City, Miss Berenice N. Smith, 235 South 12th East St.

VERMONT

Miss Laila A. McNeil, 13 Elm St., Middlebury

WASHINGTON

Western, Helen *Andrews* Beaudin (Mrs. O. J.), 1625 36 St., Seattle

WISCONSIN

Madison, Miss Margaret Shelton, 111 West Gilman St.

Milwaukee, Matilda *Aarons* Jung (Mrs. C. S.), 2831 North Prospect Ave.

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