

WELLESLEY  
WELLESLEY

1969

Wellesley College Bulletin

1970

WELLESLEY  
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CATALOGUE NUMBER



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Bulletins published six times a year by Wellesley College, Green Hall, Wellesley, Massachusetts 02181. January, two ; April, one ; September, one ; October, one ; November, one. Second-class postage paid at Boston, Massachusetts and at additional mailing offices.

VOLUME 59

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Bulletin  
Of  
Wellesley College



SEPTEMBER, 1969

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# CONTENTS

Academic Calendar 1969–1970	4
Visitors	4
Correspondence	5
Board of Trustees	6
Presidents	7
The College	11
Admission	13
General Requirements for Freshman	
Applicants	13
The Application	14
The Interview	14
College Entrance Examination Board Tests	14
Admission Plans	15
Early Decision	15
April Decision	15
Early Admission	15
Advanced Placement and Acceleration	16
Students from Abroad	16
Admission of Transfer Students	16
Admission of Graduate Students	16
Fees, Financial Aid and Fellowships	17
Fees and Expenses	17
Financial Aid	20
Fellowships and Graduate Scholarships	22
Student Life	25
Registration	25
Freshman Orientation	25
Dormitories	25
Advising	26
Religion	26
College Health Services	27
Jobs On and off Campus	27
Summers	28
The Junior Year Abroad	29
Career Preparation	29
Academic Standards	31
Leave of Absence	31
Withdrawal	32
Readmission	32
Students in 1968–1969	32
Academic Summary	32
Geographical Distribution	33
The Campus	34
The Curriculum	43
Requirements for the Degree of Bachelor of Arts	44
The Major	45
Exemption from Required Studies	46
Credit for AP Examinations	46
Credit for Other Academic Work	47
Examinations	47
Research or Individual Study	47
Freshman-Sophomore Colloquia	47
Cross-Registration Program with the	
Massachusetts Institute of Technology	48

Academic Distinctions	48
Requirements for the Degree of Master of Arts	49
Courses of Instruction	51
Art	53
Astronomy	61
Biological Sciences	63
Chemistry	70
Economics	74
Education	79
English	81
French	90
Geology	95
German	97
Greek and Latin	101
Greek	101
Latin	103
History	107
Italian	116
Mathematics	118
Music	122
Philosophy	127
Physical Education	131
Physics	133
Political Science	137
Psychology	145
Religion and Biblical Studies	151
Russian	156
Sociology and Anthropology	159
Spanish	164
Extrdepartmental Courses	168
Extrdepartmental Programs	171
Chinese	171
Theatre Studies	173
Interdepartmental Majors	174
Afro-American Studies	174
Classical Archaeology	174
Molecular Biology	174
United States Studies	175
Freshman-Sophomore Colloquia	176
College Directory	183
Officers of Instruction	185
Administration	197
Alumnae Interests	200
Alumnae Association, Board of Directors	200
Alumnae Trustees	201
National Development Fund Committee	201
Acquaintanceship Chairmen	202
Gifts to Wellesley	212
Index	214

## Academic Calendar 1969–1970

### FIRST SEMESTER

Registration of new students, 9:00 A.M. to 11:00 P.M.		Sunday, September 14
Registration closes for all students, 11:00 P.M.		Tuesday, September 16
Opening Convocation, 8:30 A.M.		Wednesday, September 17
Classes begin		Thursday, September 18
Thanksgiving recess	after classes	Wednesday, November 26
	through	Sunday, November 30
Christmas vacation	after classes	Friday, December 19
	through	Sunday, January 4
Reading period		Monday, January 5 through Tuesday, January 13
Examinations		Wednesday, January 14 through Wednesday, January 21
Winter recess		Wednesday, January 21 through Sunday, February 1

### SECOND SEMESTER

Classes begin		Monday, February 2
Spring vacation	after classes	Friday, March 27
	through	Sunday, April 5
Reading period		Saturday, May 9 through Sunday, May 24
Examinations		Monday, May 25 through Monday, June 1
Commencement		Saturday, June 6

### Visitors

Wellesley welcomes visitors to the College. The administrative offices in Green Hall are open Monday through Friday, 8:30 a.m. to 4:30 p.m. and by appointment on Saturday mornings during term time. Special arrangements for greeting prospective students will also be made during holiday and vacation periods. Rooms for alumnae, parents of students or prospective students, are available on the campus in the Wellesley College Club, and may be reserved by writing the club manager.

Campus guides are happy to provide tours for visitors. In order to arrange for a mutually convenient time for interviews with officers of the Board of Admission, secondary students and their parents are requested to make such appointments well in advance of their intended visit.



## Correspondence

The post office address is Wellesley College, Wellesley, Massachusetts 02181. Inquiries should be addressed as follows :

General interests of the College  
PRESIDENT

Academic policies and programs  
DEAN OF THE COLLEGE

College policy for students ; residence halls ;  
applications for readmission  
DEAN OF STUDENTS

Admission of undergraduate students  
DIRECTOR OF ADMISSION

Admission of foreign students  
FOREIGN STUDENT ADVISER

Admission of graduate students  
DEAN OF THE COLLEGE

Individual students  
DEAN OF THE CLASS

Financial aid  
FINANCIAL AID OFFICER

College fees  
CONTROLLER

Employment of students and alumnae  
DIRECTOR OF CAREER SERVICES

Transcripts of records  
RECORDER

Catalogues and other bulletins  
INFORMATION BUREAU

Other business matters  
VICE PRESIDENT AND BUSINESS MANAGER

Gifts and bequests  
VICE PRESIDENT FOR RESOURCES

Alumnae interests  
EXECUTIVE SECRETARY, ALUMNAE ASSOCIATION

# BOARD OF TRUSTEES

## Chairman of the Board

John R. Quarles, B.A., M.A., LL.B.  
Wellesley, Mass.

## Vice Chairman

Robert Gregg Stone  
Dedham, Mass.

## Treasurer of Wellesley College

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Concord, Mass.

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Durham, N. C.

Erwin Dain Canham, B.A., M.A. (OXON),  
L.H.D., LITT.D., LL.D.  
Boston, Mass.

Harriet Segal Cohn, B.A.  
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Wellesley, Mass.

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Cincinnati, Ohio

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Cambridge, Mass.

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Kansas City, Mo.

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Concord, Mass.

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Brookline, Mass.

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Manchester, Mass.

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Baltimore, Maryland

Mary Ann Dilley Staub, B.A.  
Glencoe, Illinois

Mildred Hinman Straub, B.A.  
Albany, N. Y.

Nancy Angell Streeter, B.A.  
New York, N. Y.

Mary Sime West, B.A.  
New York, N. Y.

Henry Austin Wood, Jr., B.A., M.B.A.  
Boston, Mass.

## President of Wellesley College

Ruth M. Adams, Ph.D., L.H.D., LITT.D., ex officio  
Wellesley, Mass.

## President of the Alumnae Association

Nan Ellen Swansen, B.A., ex officio  
Milwaukee, Wisconsin

## PRESIDENTS

ADA HOWARD	(1875–1881)
ALICE FREEMAN	(1881–1887)
HELEN SHAFER	(1887–1894)
JULIA IRVINE	(1894–1899)
CAROLINE HAZARD	(1899–1910)
ELLEN FITZ PENDLETON	(1911–1936)
MILDRED McAFEE HORTON	(1936–1949)
MARGARET CLAPP	(1949–1966)
RUTH M. ADAMS	1966–





# The College







Wellesley College is a residential liberal arts college for women situated on a 500 acre campus in the township of Wellesley, Massachusetts, 12 miles from Boston. Approximately 1750 students are enrolled each year.

Above all, Wellesley strives to provide an excellent education. The faculty and students have a high regard for scholarship, coupled with a concern for contemporary social problems. They have an equal interest in providing an atmosphere for relaxation as well as intellectual activity. Wellesley's faculty live, for the most part, on or near the campus, and are readily available to students outside the formal atmosphere of the classroom. There are 177 full-time and 33 part-time faculty in addition to some 400 other members of the college community.

Wellesley College opened in 1875, after years of preparation by Mr. and Mrs. Henry Fowle Durant. It was Mr. Durant's hope that in this college one could prepare oneself "for great conflicts, for vast reforms in social life, for noblest usefulness." This is still the hope and the goal.

## THE COLLEGE

The College has a sober concern for this college generation and its problems as reflected on college campuses in the United States today. The College staff consistently tries to work cooperatively with students to fulfill the original goal and to effect in a reasonable manner, those changes needed. The coming years will bring changes on all college campuses, and Wellesley is no exception. Wellesley students will have much of the responsibility for these changes.

Wellesley's setting provides the opportunity for both city and country living. The campus allows students to explore academic and other interests in an atmosphere of repose and great beauty. The city is nearby, and transportation back and forth is, on the whole, convenient. Here at Wellesley students can pursue their own interests, whether they are on campus or in town. Wellesley no longer has required courses and the curriculum is arranged so that each student is able to select a balanced series of courses leading to the development of a primary interest as expressed in the selection of a major in the last two years. The College has established a limited system of cross-registration with the Massachusetts Institute of Technology so that Wellesley students may take courses at MIT, and *vice versa*.

Wellesley students have traditionally come from diverse backgrounds, and many parts of the world besides the United States. In the coming years Wellesley will make special efforts to maintain and expand that diversity, out of the belief in the essential educational worth of cultural pluralism. Students encounter a wide range of points of view, of academic disciplines and of special interests from which to choose and strengthen their own unique combinations of interests and talents.

Wellesley has many physical resources to support these interests and talents. The major buildings and sports areas can be located on the campus map which appears at the end of the catalogue. The description of these will be found on pp. 34–40.

The present College is in marked contrast to the small faculty and student body, the one building, the collection of only 8000 books, and the restricted social life with which Wellesley began. The serene beauty of the campus remains unchanged after nearly one hundred years——symbolizing the best of the traditional, it provides the setting for change, for innovation, for growth.





## Admission

The Board of Admission at Wellesley is composed of representatives of the faculty, the administration and the student body. This Board has the difficult task of predicting from among the hundreds of applicants those students who will get the most from, and give the most to, Wellesley. The Board tries to assemble a class which will include students of diverse backgrounds and interests.

### GENERAL REQUIREMENTS FOR FRESHMAN APPLICANTS

Entering students normally have completed four years of college preparatory studies in secondary school. Good preparation for work at Wellesley College includes four years of English, a minimum of three years of mathematics (four years are recommended for students planning to con-

## ADMISSION

centrate in mathematics, premedicine, or physical science), one or more courses in a laboratory science and in history, and courses in either Latin or Greek and in a modern foreign language. If students are not able to study one language for at least three years and another for at least two years, they are advised to study one language, ancient or modern, for four years.

There are always exceptions to the preparation suggested here, and the Board will also consider an applicant whose educational background varies from this general description.

## THE APPLICATION

Application forms may be secured from the Board of Admission. A fee of \$15.00 must accompany the formal application. This fee is not refunded if a candidate withdraws her application or is not admitted.

## THE INTERVIEW

Each candidate is required to have a personal interview either at the College or in her home or school region. Upon request from the candidate, the Director of Admission will forward the name and address of the alumna interviewer in her area.

## COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all applicants for admission. Among the Achievement Tests, the English Composition Test is required and the two other tests may be chosen from two of the following fields: 1) foreign languages 2) social studies 3) either mathematics or science.

Each applicant is responsible for arranging to take the tests and for requesting CEEB to send to Wellesley College the results of all tests taken. CEEB sends its publications and the necessary registration forms to apply for the tests to all American secondary schools and many centers abroad. The applicant may obtain the registration form at school, or may obtain it by writing directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540; or in western United States, western Canada, Australia, Mexico, or the Pacific Islands, to CEEB, Box 1025, Berkeley, California 94701.

It is wise to register with CEEB approximately seven to eight weeks before the test dates.

#### Dates of CEEB Tests :

November 1, 1969 (Scholastic Aptitude Test only)

December 6, 1969

January 10, 1970

March 7, 1970

May 2, 1960

July 11, 1970

### ADMISSION PLANS

#### 1. Early Decision

This plan is intended for students who decide early that Wellesley is the college which they wish to attend and who agree to file no other college application until after receiving a decision from the Wellesley Board of Admission. The appropriate CEEB tests should be taken in the junior year in secondary school and candidates must apply and complete the form "Request for Early Decision" by October 1 of the senior year. All supporting credentials and an interview must be completed by November 1. These candidates will receive a decision from the Board of Admission by December 1.

#### 2. April Decision

A candidate who uses the regular plan of admission must file an application by January 1 of the last year in secondary school. The Board of Admission decision is mailed in April.

It is preferable that the Scholastic Aptitude Test be taken in November, December or no later than January of the senior year. The Achievement Tests may be divided between May or July of the junior year and December or January of the senior year. All supporting credentials for applicants who wish to enter in the following school year must be completed by January 15, therefore the results of tests taken after January arrive too late for consideration by the Board of Admission.

#### 3. Early Admission

A few unusually mature students whose achievement in secondary school is superior are considered for admission after only three years of high school. It is preferable that these candidates have their interviews at the college, if distance permits. In all other respects they follow the regular procedures for entrance.

## ADVANCED PLACEMENT AND ACCELERATION

Accepted applicants who are interested in advanced placement or exemption should explain this in writing to the class dean during the summer before entering the College. Information about credit for AP examinations is given on pp. 46-47.

Students considering acceleration and early graduation should consult with the class dean early in the first term of the freshman year.

## STUDENTS FROM ABROAD

The entrance requirements for foreign students and American citizens living in other countries are substantially the same as for applicants from the United States.

Specific instructions for applying to Wellesley from abroad are contained in a special brochure "Information for Students From Abroad" which may be obtained by writing to the Board of Admission.

The Slater One Year Fellowship program is open to qualified foreign students who wish to spend a year at Wellesley to increase their competence in American studies while preparing for a degree in their home university. Slater Fellows receive the full cost of tuition, room and board from the College. Applicants may obtain the necessary forms from the Foreign Student Adviser.

## ADMISSION OF TRANSFER STUDENTS

Wellesley College accepts sophomore and junior transfer students who offer excellent academic records and strong recommendations from their dean and instructors. A student wishing to apply for admission with advanced standing should make application before February 1 on forms which may be obtained from the Board of Admission. A non-refundable application fee of \$15 should be sent with the completed application form.

Credit for courses completed at another college is tentatively granted early in the first year of residence at Wellesley. The final determination of credit which depends upon the quality of the student's work at Wellesley College is not made until the end of the first year here.

## ADMISSION OF GRADUATE STUDENTS

Wellesley College accepts a limited number of candidates for the degree of Master of Arts. A summary of requirements for the master's degree appears on p. 49.



Interested students should write to the Chairman of the Committee on Graduate Instruction.

## Fees and Expenses

An excellent education is expensive.

At Wellesley the fee represents approximately three-fifths of the cost to the College for each resident student; the difference is made up from gifts and income earned on endowment funds. The costs to the student for a year at Wellesley are explained below.

### ANNUAL FEE

\$3100 is the fee for tuition, board and room for the academic year 1969–1970. This fee will be increased to \$3400, plus a student activity fee of \$40, for the academic year 1970–1971.

### RESERVATION PAYMENT

\$200 reserves a place in the College for the student. It is due February 1 for Early Decision students and May 1 for all other entering students, and annually on July 1 for returning students. It is included in the annual fee of \$3100, but it cannot be refunded for any reason.

### GENERAL DEPOSIT

\$50 is a general deposit paid by each entering student. The deposit is refunded after graduation or withdrawal and after deducting any special charges not previously paid.

### PLANS OF PAYMENT

\$2900 is the balance due for tuition, board and room. This amount is due on September 1. However, other plans for payment are available. Wellesley College offers two such plans: The Standard Plan, and the Deferred Monthly Payment Plan. Detailed descriptions of both plans are sent by the controller to the parents of entering students and to others upon request. It is necessary that all fees be paid before the student can begin or continue attendance, and all financial obligations to the College must be discharged before the diploma is awarded.

# FEES, FINANCIAL AID AND FELLOWSHIPS

## THE STANDARD PLAN

The College will accept payments made through any bank or trust company or recognized financing agency which will forward these payments in accordance with the Standard Plan.

### Schedule of Payment

#### For Early Decision Student

1st Payment				
February 1	Reservation	\$	200	
2nd Payment				
May 1	General Deposit		50	
3rd Payment				
September 1	Tuition, board and room		1,750	
4th Payment				
January 15	Balance on tuition, board and room		<u>1,150</u>	\$3,150

#### For April Decision Student

1st Payment				
May 1	Reservation and General Deposit	\$	200	
2nd Payment				
September 1	Tuition, board and room		1,750	
3rd Payment				
January 15	Balance on tuition, board and room		<u>1,150</u>	\$3,150

#### For Returning Student

1st Payment				
July 1	Reservation	\$	200	
2nd Payment				
September 1	Tuition, board and room		1,750	
3rd Payment				
January 15	Balance on tuition, board and room		<u>1,150</u>	\$3,100



## DEFERRED MONTHLY PAYMENT PLAN

Arrangements have been made for financing agencies to offer monthly extended payment plans to cover payments due the College. These plans include provisions for insurance and can be arranged for any reasonable sum of money or length of time. Information on these plans is sent to the parents of entering students and is available to others from the controller.

## FINANCIAL AID SCHOLARSHIP FUNDS

Scholarship funds granted under both payment plans are usually applied one-half to the September payment and one-half to the January payment. Scholarship students who have difficulty meeting the scheduled payments outlined above should consult the Financial Aid Officer.

## NON-RESIDENT AND GRADUATE STUDENT FEES

Information on fees for nonresidents and graduate students may be obtained from the controller.

## GENERAL EXPENSES

It is estimated that \$500 for the year will cover a student's general expenses including books and supplies, activity fees, recreation and entertainment, laundry and dry cleaning and some transportation, excluding the journey to and from home. For the foreign student coming from abroad this figure is estimated at \$600.

## SPECIAL FEES AND EXPENSES

An initial application fee of \$15 which is non-refundable. Certain special fees and expenses listed under the departments with which they are concerned, such as the cost of instrumental and vocal lessons. Other fees include the following:

For each unit of work taken for credit in excess of five in any semester: \$250.

For validating in September each unit of work done independently during the summer or taken in other institutions in excess of the units accepted for an automatic transfer: \$50.

Automobile parking fees.

Laboratory breakage and any other damage incurred by a student.

## INSURANCE

Information concerning optional health and accident insurance is automatically sent to all parents by the controller.

## REFUNDS

The reservation payment is not refundable at any time. Additional payments made before the opening of College in the fall are refundable only prior to that time.

The necessity of meeting fixed charges prohibits withdrawal rebate in excess of \$17 for each remaining full academic week calculated from January 1 or the withdrawal date, whichever occurs later.

In the event of withdrawal of a student with scholarship assistance, the proceeds of all refunds are applied first to the scholarship account.

## Financial Aid

The Wellesley College program of financial aid for students is intended to open educational opportunity to able students of diverse backgrounds regardless of their financial circumstances. No student should be discouraged from applying to Wellesley because of the need for scholarship help. At Wellesley admission decisions are made without regard for financial need, and only after a student is admitted does the Committee on Scholarships consider applications for aid.

For the 1969-1970 academic year over \$700,000 in college scholarships and student loans bearing no interest has been awarded to financial aid applicants. More than 140 members of the class entering in September 1969 are receiving assistance from Wellesley College scholarship funds.

The Wellesley College Students' Aid Society, which sponsors interest-free loans, also offers personal assistance through loans of books and other items, gifts of clothing and loans of small amounts of money for incidental expenses and special emergencies.

Financial aid is given only to students who require assistance in order to attend. Awards vary in size according to individual need and may equal or exceed the comprehensive College fee. Although awards are generally for one year at a time, the College expects to continue aid as needed throughout the four years for all scholarship holders whose College records are satisfactory. Most awards consist of a combination package of a gift and an interest-free loan, plus on-campus work during the school year.





In addition to College scholarships, some Educational Opportunity Grants and National Defense Student Loans are available to eligible students. At Wellesley, National Defense Student Loans are used primarily to assist students with financial need who have applied for, but who have not been granted, college awards. The need for financial help always exceeds the amount of resources Wellesley has available in any given year. Therefore, students should, whenever possible, seek loan assistance locally through state or federal programs, from educational foundations, and other private sources.

There are ten special scholarships reserved for residents of the Town of Wellesley. A special application is required and available from the Town Selectmen's Office. The awards are made by the Town Selectmen after students have been admitted by the Board of Admission.

The College expects students to contribute as much as possible to their own expenses through summer and term-time earnings. On-campus jobs under the Wellesley College and Federal Work Study Programs are offered to all financial aid applicants except freshmen. These jobs ordinarily involve five hours of work per week and enable students to earn approximately \$200–\$250 per year. In addition, the Career Services Office is often able to arrange for additional paid work during the school year and summers.

Further information on financial aid at Wellesley is contained in the brochure "Opportunities for Financial Aid" which may be obtained by writing to the Financial Aid Officer, Wellesley College, Wellesley, Mass. 02181.

## APPLICATION FOR FINANCIAL AID

Each registered applicant for admission who needs financial aid must secure two forms and must file them during the senior year in high school, in the places listed below. Early Decision applicants must file by October 15; April Decision applicants must file by January 15.

### **1. WELLESLEY COLLEGE APPLICATION FOR FINANCIAL AID.**

This form should be requested of, and returned to, the Financial Aid Office, Wellesley College.

### **2. PARENTS' CONFIDENTIAL STATEMENT.**

This form is available in the secondary schools, or may be obtained by writing to the College Scholarship Service, Box 176, Princeton, New Jersey 08540; Box 881, Evanston, Illinois 60204; or Box 1025, Berkeley, California 94701. A copy can also be provided by the Financial Aid Officer if specifically requested by an applicant.

**The Parents' Confidential Statement** should be filed with the College Scholarship Service which will then forward a copy for confidential use to the college or colleges indicated on the form.

Candidates for admission who have sufficient funds for the first year but who foresee a need for assistance for the later years should inform the Financial Aid Officer by January 15 of their senior year in high school. The College tries to reserve funds to meet the needs of qualified students who do not require aid on entrance but who anticipate financial problems during the later college years.

Application for financial aid must be renewed each year and filed with the Financial Aid Officer on forms obtained at the College.

## **Fellowships and Graduate Scholarships**

A number of fellowships and graduate scholarships are open to graduating seniors and alumnae of Wellesley College, while others administered by Wellesley are open to women graduates of any American institution. In general awards are made to applicants who plan full-time graduate study.

Information and application forms may be obtained from the Secretary to the President, Wellesley College. Applications and supporting credentials for fellowships are due in the Office of the President by February 20, except where noted.

### **FOR GRADUATES OF WELLESLEY COLLEGE**

Fellowships open to Wellesley College alumnae and graduating seniors are listed below. Each is awarded annually unless specified otherwise.

*American School of Classical Studies* in Athens awards three fellowships on a competitive basis. Qualified graduates are exempt from any charge for tuition at the American School of Classical Studies in Athens or in Rome.

Stipend : \$2000

primarily for study or research in musical theory, composition, or in the history of music; abroad or in the United States.

Stipend: \$2500

*Professor Elizabeth F. Fisher Fellowship* for research or further study in geology or geography.

Stipend: \$2500

*Horton-Hallowell Fellowship* for graduate study in any field, preferably in the last two years of candidacy for the Ph.D. degree, or its equivalent, or for private research of equivalent standard.

Stipend: \$3000

*Edna V. Moffett Fellowship* for a young alumna, preferably for a first year of graduate study in history. Awarded every third year. Offered in 1969–1970 for the year 1970–1971.

Stipend: \$2500

*Vida Dutton Scudder Fellowship* for study in the field of social science, political science or literature; awarded in alternate years. It will be offered in 1970–71 for the year 1971–72.

Stipend: \$2500 or more

*Mary Elvira Stevens Traveling Fellowship* for travel or study outside the United States. Any scholarly, artistic, or cultural purpose may be considered. Candidates must be at least 25 years of age on September 1 of the year in which the fellowship is first held. All applications must be filed in the Office of the President before December 31, 1969.

Stipend: \$7000

*Sarah Perry Wood Medical Fellowship* for the study of medicine.

Stipend: \$3300

*Fanny Bullock Workman Scholarship* for graduate study in any field.

Stipend: \$2500

*Trustee Scholarships* are awarded on a competitive basis to four seniors who intend to pursue graduate studies. These scholarships are unrestricted as to field of study but two are awarded preferentially

to students planning to teach at the college level. The title Trustee Scholar is honorary and in cases of financial need stipends may be awarded to the scholars or, if not required by them, to alternates who need financial assistance. Applications and credentials are due by January 15.

#### FOR GRADUATES OF OTHER INSTITUTIONS FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Some graduate fellowships and scholarships for study at the institution of the candidate's choice are administered by Wellesley College and are open to alumnae of any college, including Wellesley.

Several scholarships are available for candidates for the degree of Master of Arts at Wellesley.

Assistantships which provide stipends are available in certain science departments at the College for candidates for the M.A. degree at Wellesley.

There is no restriction as to the field of study in the fellowships and scholarships open to women graduates of other colleges and awarded by Wellesley. They are:

*Alice Freeman Palmer Fellowship* for study or research abroad or in the United States. The holder must be no more than 26 years of age at the time of her appointment, and unmarried through the whole of her tenure.

Stipend : \$3000

*M. A. Cartland Shackford Medical Scholarship* for the study of medicine with a view to general practice, not psychiatry.

Stipend : \$3300

*Harriet A. Shaw Scholarship* for study or research in music and allied arts, abroad or in the United States. The candidate must be no more than 26 years of age at the time of her appointment. Preference given to music candidates; undergraduate work in history of art required for other candidates. Awarded in alternate years. Offered in 1969-70 for the year 1970-71.

Stipend : \$3000

*Catherine Hughes Waddell Fellowships* are offered to six women graduates of member institutions of the United Negro College Fund who plan to become secondary school teachers. The program of study is in the Fellow's area of specialization. Information and application forms may be obtained from the Board of Admission. Applications are due in the Office of Admission by February 15 of the year of desired entrance.

Stipend: Fee for tuition, board and room, and certain other costs are paid in full.

## Registration

On arrival at the beginning of each semester students register in the dormitories on the dates given in the College calendar.

## Freshman Orientation

Entering students arrive at College a few days before most upperclassmen. Their orientation is in the hands of the Vil Juniors, who help to get them settled in the dorm, and shepherd them around—to meetings, mixers and other social events. Vil Juniors are students selected from the junior class who volunteer their time during the orientation period. Years ago, when Wellesley freshmen lived in strictly supervised homes in the village, the Vil Juniors were older students who acted as chaperones to and from the village. Today they try to provide a happy beginning to college life—which includes importing numbers of men to mixers and dances, providing the introductions to the class deans, seeing that the class schedules are distributed—and generally helping to make new students feel part of Wellesley.

## Dormitories

Wellesley has thirteen dormitories spread throughout the campus. Each of these houses from 100 to 245 students who live in either single or double rooms, although a few suites are available to upperclassmen. The cost of all rooms is the same, regardless of whether they are shared. Members of all four classes live in each dorm, share the dining and common rooms and the general life of the house. Students clean their own rooms and contribute 2 or 3 hours a week to waiting on table, answering the telephones

## STUDENT LIFE



and doing other miscellaneous jobs which are scheduled by the student heads of work. Each dorm has a non-student resident head of house.

The College supplies the basics—a bed, desk, chair, lamp, bookcase and bureau for each resident. Students may rent linen or supply their own. Students supply blankets and quilts and their own curtains, pictures, rugs, posters and the rest of the delightful paraphernalia which turns the dorm room into a home away from home. Students may change dorms from year to year, and the College will move their personal possessions which are not insured, however. The College insurance does not allow it to assume responsibility for the personal property of students.

## **Advising**

Students can receive advice and counseling from many different people. The heads of house, class deans, faculty advisers, College doctors and psychiatrists, the College chaplain, volunteer tutors, Big Sisters, Vil Juniors, the foreign student adviser, the director of special programs, members of College Government, and others are there to try to help students with problems—both large and small. If one of these people cannot help they will see that the student is put in touch with the person who can.

Confidential problems are treated with respect, and students may feel secure knowing that a personal problem will remain confidential.

## **Religion**

Wellesley seeks to respond sensitively to a variety of religious traditions. The College encourages independent religious involvement on the part of its students. Wellesley students may also major in religion and biblical studies, or take elective courses in the field. Attendance at all worship services is voluntary.

The College chaplain is available to all students for religious guidance and counseling. He also officiates at regular Sunday morning worship, an ecumenically oriented Protestant service, in Houghton Memorial Chapel. Other religious advisers representing several religious traditions are also available to students for counseling, and often lead the Sunday services. The activities of the various religious groups on campus as well as the programs sponsored by the chaplain's office are open to all.

Temples and churches representing a great variety of ways of worship are easily accessible from the campus.



## College Health Services

The services of the college physicians, psychiatrists and nurses are available to students at Simpson Infirmary, which includes a 29 bed hospital and an out-patient clinic. Boston has long been one of the major medical centers in the country, and consultation with specialists in all medical fields is easily available.

Besides the usual care given by college health services the Wellesley medical staff serve on a student-staff health committee. This committee works on ways to expand the use of the health services and sets up special informational and discussion programs on such subjects as drugs, sex, marriage.

The confidentiality of the doctor-patient relationship is the foundation upon which the success of the health services is based. **College medical personnel will not share any medical information concerning a student with any college authorities, or with the parents of students, without the consent of the student.** Parents are requested to sign a statement authorizing the College to proceed with appropriate treatment in the case of serious illness or emergencies in the event they cannot be reached by telephone. This waiver is part of the Health Examination Report submitted by June 1 by each entering student.

Each student is allowed three free days in the infirmary each semester. Treatment involving unusual expenses or outside consultation or hospitalization is borne by the student. The College strongly recommends purchase of a group student health and accident insurance policy which protects students over a twelve month period whether or not they are in residence at the College.

## Jobs On and Off Campus

Although freshmen are not expected to hold jobs during the first semester, there are many opportunities on and off campus for other students to supplement their incomes through part-time employment at the College and in the town of Wellesley. The staff of the Career Services Office is happy to help bring student and job together. The largest demand is in the field of baby sitting. In 1968-1969 Wellesley College students earned \$23,600 as baby sitters. The total reported term-time earnings topped \$63,600 and were accrued through employment in town, small business enterprises, individual services such as tutoring, laundry and dry cleaning, waitressing,

and child care. A number of campus agencies provide regular work and there are clerical and other jobs in various offices and departments of the College.

A student interested in employment may register without charge at the Career Services Office. This office also assists students in obtaining summer employment and part-time work in the winter and helps seniors and alumnae to locate positions upon graduation and later in their careers.

The office maintains a library of vocational literature on current positions and future career possibilities; holds lectures and discussions for students on various occupations; supplies information about training courses, apprenticeships, and graduate assistantships; and schedules interviews for seniors with the employers who recruit at the College.

Seniors and alumnae are invited to register with the Career Services Office if they wish to hear of openings and wish to have their employment credentials collected and kept up to date for future use.

## Summers

The long summer vacation gives students ample time for work, travel or study.

The Career Services Office helps to place students in summer jobs and offers counseling and advice on the most rewarding kinds of jobs available depending on a student's particular interest.

The College sponsors a Washington Internship Program in which students spend ten weeks in Washington, D.C. working in various departments within the federal government, including the Congress, as well as for press, radio and TV offices and for other groups in the nation's capital. Salaries are offered with some of these jobs, but if not, the College provides a stipend to the intern.

The Internship Program in Economics, founded at Wellesley by the National Association of Business Economists, places qualified economics majors in salaried positions in private or public agencies in all parts of the country during the summer following the junior year. Students in this program carry out applied economic research under the direction of senior economists.

Independent travel, or travel with groups such as Crossroads Africa or the Experiment in International Living, is a good supplement to the academic routine. Wellesley also awards Slater Fellowships for summer research and study abroad available primarily to junior Honors candidates for work in connection with their 370 Honors project. These Slater Fellows must be recommended





by their departments and submit a budget indicating how much money will be needed in addition to their own resources.

Some students carry out planned programs of independent study which have been worked out with members of an academic department and the class dean. Other students attend summer school. However, the amount of credit allowed toward the degree is limited and is not automatic. Students should consult their class deans and appropriate departments before enrolling in summer school courses for which they expect credit toward the Wellesley degree.

Whatever the summer plans are, Wellesley considers books an indispensable accompaniment. Each department provides a summer reading list, designed particularly for majors, but open to all. These lists provide an excellent complement to the work done during the past year, and preparation for the one ahead.

## **The Junior Year Abroad**

Qualified students may apply for admission to the various groups spending the junior year in Europe. Wellesley students may study in Paris under the plan sponsored by Sweet Briar College, or in Munich under the auspices of Wayne University, or in Florence, Geneva, Madrid, or Paris with groups organized by Smith College.

Slater Junior Year Abroad Scholarships are available to juniors who have already been accepted by one of the approved Junior Year Abroad programs. The selection of award recipients will be made early in the second semester of the sophomore year on the basis of academic qualifications and faculty recommendations, and the amount of each individual award will be determined according to need. Information about these scholarships may be obtained from the class dean.

## **Career Preparation**

A liberal education does not prepare a student for a specific career. It is intended to provide that broad background upon which a student depends in indescribable ways throughout a lifetime. The Wellesley program provides a student with the chance to explore various fields of knowledge and to secure in-depth preparation in a specific major field. The student then can either proceed directly into a career or obtain further study in graduate school for more specialized professional work.

During the undergraduate years a student may meet the requirements for the degree of Bachelor of Arts and at the same time prepare to enter professional schools, for example, architecture, law, medicine, public health, social service, education. A sound education in the liberal arts is considered the best preparation for admission to most professional schools, but a student who is interested in any one of the professions should consult the class dean to plan a particular emphasis in the undergraduate program.

## TEACHING IN ELEMENTARY AND SECONDARY SCHOOLS

Some teaching positions in public as well as in private schools are open to college graduates without further study. Students who complete the course in supervised teaching and 3 other units of study in education and 2 in psychology are able to fulfill the minimum requirements for a teaching license in many states.

Wellesley is one of a group of colleges affiliated with the Harvard Graduate School of Education in programs which afford graduates of the cooperating colleges special opportunities for supervised teaching in the summer, for paid teaching and/or research internships during the regular school year, and for graduate study at Harvard.

A student who intends to teach should consult the chairman of the Department of Education as soon as possible about requirements for certification and ways of preparing to meet them.

## COLLEGE TEACHING AND RESEARCH

A student who wishes to enter college teaching and research will find that the undergraduate work of the College provides preparation for graduate study leading to advanced degrees in the arts and sciences. The chairman of the major department or of the department in which a student hopes to pursue graduate study should be consulted as soon as possible to learn which courses in the field of special interest and which foreign languages will be most useful. It should be noted that for graduate study in many fields a reading knowledge of two specified foreign languages is required. The student will find the class dean, the faculty adviser, the chairmen of departments, and staff of the Career Services Office helpful in locating information about graduate schools.

## MEDICAL SCHOOL

In general, the minimum requirements for admission to recognized medical schools can be met by 4 units in chemistry, 2 units in physics and 2 units in biology. Because there is some variation in the minimum requirements, students should consult the most recent catalogues of the particular medical schools in which they are interested.

Many students planning to study medicine elect pre-medical sciences in the freshman year and major in one of them. A number of medical schools stress the importance of a liberal arts education as a preparation for medical studies and accept applicants regardless of their major provided they have fulfilled the minimum requirements for admission. Premedical students, therefore, are free to major in the field which interests them most.

## THE CIVIL SERVICE

A student wishing to qualify for examinations offered by the United States Civil Service Commission or various state and local civil service agencies should consult the major department and the Career Services Office about current requirements.

## Academic Standards

Academic standards at Wellesley are high, and students take full responsibility for attending classes, getting required work in on time, appearing for examinations. If students have trouble with course work, or get sick, or have other difficulties which interfere with school work they should consult with the class dean for assistance in making special arrangements for their studies.

Students are expected to maintain diploma grade standing throughout the college career. At the end of each semester each student's record is reviewed, and for those who appear to be having difficulties appointments with the class dean or faculty adviser are arranged. The College will try to provide the appropriate support services to students in difficulty. Students who show consistent effort are rarely excluded from College.

## Leave of Absence

A few students find it wise to break the normal sequence and spend a semester or two away from Wellesley either working, or at another institution. This flexibility in developing individual educational goals is sometimes

advantageous. Application for leave of absence may be made to the class dean at any time after a student has completed at least one year at Wellesley.

### Withdrawal

Students who plan to withdraw must inform the class dean. A withdrawal form will then be sent to the parents or guardian for their signature. The official date of withdrawal is considered to be the date on which the signed form is received by the recorder of the College. The withdrawal date is important in order to compute costs and possible rebates. For regulations concerning withdrawal rebates see p. 20.

The College reserves the right to require the withdrawal of any student whose academic work falls below its standards, or who in the opinion of the College authorities is not benefiting from the Wellesley experience. In such cases of involuntary withdrawal—which are rare—the official date of withdrawal is considered to be the date upon which the student leaves the College.

### Readmission

A student who has withdrawn from College and wishes to return should apply to the Office of the Dean of Students for the appropriate forms. Readmission will be considered in the light of the reasons for withdrawal and reapplication, and of the space currently available. A non-refundable fee of \$15 must accompany the reapplication form.

## Students in 1968–1969

### ACADEMIC SUMMARY

	Resident	Non-Resident	Class Totals	Totals
Candidates for the B.A. degree	1,725	30		1,755
Seniors	378	25	403	
Juniors	398	4	402	
Sophomores	445	1	446	
Freshmen	490	0	490	
Unclassified	14	0	14	
Candidates for the M.A. degree	0	12		12
Non-candidates for degrees	3	3		6
				<hr/>
Total registration September 1968				1,773

**GEOGRAPHICAL DISTRIBUTION**

**THE UNITED STATES**

Alabama	11
Alaska	1
Arizona	4
Arkansas	3
California	68
Colorado	4
Connecticut	132
Delaware	9
District of Columbia	25
Florida	18
Georgia	20
Hawaii	6
Idaho	3
Illinois	67
Indiana	23
Iowa	10
Kansas	10
Kentucky	16
Louisiana	8
Maine	21
Maryland	49
Massachusetts	283
Michigan	37
Minnesota	21
Mississippi	2
Missouri	32
Montana	4
Nebraska	7
New Hampshire	22
New Jersey	125
New Mexico	5
New York	255
North Carolina	16
North Dakota	2
Ohio	84
Oklahoma	8
Oregon	4
Pennsylvania	97
Rhode Island	10
South Carolina	8
South Dakota	1
Tennessee	14

Texas	45
Utah	2
Vermont	7
Virginia	70
Washington	13
West Virginia	7
Wisconsin	18
Wyoming	1
Canal Zone	1
Puerto Rico	2

**STUDENTS FROM ABROAD**

	Foreign Citizens	American Citizens Living Abroad
Belgium	1	3
Brazil		1
Canada	4	1
Egypt	1	1
England	1	3
France	2	2
Honduras		1
Hong Kong	7	
India	3	1
Iran	1	
Italy		2
Jamaica	1	
Japan		1
Korea	2	
Malaysia	2	
Peru		1
Phillipines	1	
Saudi Arabia	1	
Sierra Leone	1	
Spain		1
Sweden	1	
Switzerland		2
Taiwan	4	
Thailand	1	
Turkey	1	
Venezuela	2	1
Vietnam	1	
West Germany		1
West Pakistan	1	

## The Campus

Wellesley College has a campus of more than 500 acres bordering on Lake Waban. There are woodlands, hills and meadows, an arboretum, botanic gardens and an outdoor amphitheatre. In this setting are more than 50 buildings, with architectural styles ranging from Gothic to contemporary. Thirteen of the buildings are residence halls. Placed in four groups, each is approximately the same distance from the academic quadrangle where most classes are held. The campus map at the back of this catalogue shows most of the major areas.

The focal point of the campus is the tower which contains a 30-bell carillon. Named for its donor, Galen L. Stone, the tower rises 182 feet from Green Hall, the administration building, and is an excellent vantage point from which to view Wellesley's extensive campus and the surrounding urban and suburban scenery.

Wellesley's oldest building (1880) is Billings Hall, now completely remodeled and expanded to create a new college center for extra-curricular activities. Nearby is the library and a short distance away, atop Norumbega Hill, is the quadrangle which includes the administration building, two classroom buildings (Founders and Pendleton Hall) and the Jewett Arts Center. The Houghton Memorial Chapel, the Whittin Observatory and the neighboring Sage Hall with adjoining greenhouses, the recreation and physical education buildings, the Child Study Center, as well as the infirmary and other college buildings are described in detail below and listed according to the use for which each is intended.

### ALUMNAE HALL

The largest auditorium on the campus is Alumnae Hall which has a seating capacity of 1500 persons. Beneath the auditorium is a large ballroom. The building is the headquarters of the Wellesley College Theatre and also houses the College's radio station, WBS. Alumnae Hall is host to visiting lecturers and concert artists, panelists, and professional theatre groups. The gift of Wellesley alumnae, the building was erected in 1923.

### ARTS CENTER

The Jewett Arts Center, completed in 1958, consists of the Mary Cooper Jewett Art Building and the Margaret Weyerhauser Jewett Music and Drama Building.





The Art Building contains the Museum with its teaching collection of choice examples of classical and medieval art. There are studios and classrooms, the art library and slide collections, and offices of the art department. During the academic year the museum has many exhibitions and is open to the public.

An exhibition corridor joins the two wings of the Jewett Arts Center and leads directly to the Music and Drama building. The music library of books, scores and recordings is located here, as are listening rooms, well-equipped practice studios, classrooms and offices of the music department. A fine collection of musical instruments is available to the students.

The Jewett Auditorium, a theatre seating 350 persons, is also located in the Music and Drama Building. In addition, there are rehearsal rooms and other facilities for the theatre workshop.

## CHAPEL

The Houghton Memorial Chapel was presented to Wellesley in 1899 by the son and daughter of William S. Houghton, a trustee of the College. The Chapel's stained glass windows commemorate the founders and several former members of the College, while a tablet by Daniel Chester French honors Alice Freeman Palmer, Wellesley's second president. Beneath the main chapel which seats 1200 people there is a small, intimate Little Chapel.

## CHILD STUDY CENTER

Wellesley College will open the Child Study Center in the fall of 1969 under the direction of the Department of Psychology. It is located in the Anne L. Page Memorial Building, in which for many years was a college-run nursery school. The building has been completely renovated. The Center is designed for Wellesley undergraduates to study the learning processes among young children.

## CLASSROOMS

Founders Hall, built in 1919, is dedicated to the Durants, and Pendleton Hall, built in 1935, honors Wellesley's president, (1911–36), Ellen Fitz Pendleton. They are located south and north respectively in the academic quadrangle. The humanities, social sciences and mathematics are taught in Founders. Pendleton contains the laboratories, lecture rooms, libraries and offices of the departments of

chemistry, physics and psychology. Extensive equipment and facilities provide opportunity for advanced work in these areas. There are additional classrooms in many other buildings.

### COLLEGE CENTER

Billings Hall is the home of the new College Center. It also houses the various student organizations and is the bus terminal for the Wellesley-MIT cross-registrants. The recently remodeled building includes both small and large areas for meetings and discussions, and many recreational facilities including a snack bar open to the entire college, and an informal coffee house.

Part of the Billings complex is Harambee House, a black student social and cultural center opening in the fall of 1969. In it are facilities for cooking and entertaining, as well as rooms for meetings and social gatherings.

### GREEN HALL

The Office of the President, the Board of Admission, the Information Bureau, and all administrative offices directly affecting the academic and business management of the College are located in Green Hall. The building has large rooms for Academic Council and trustee meetings, class and seminar rooms, some faculty offices and the offices for alumnae, resources and public relations. Named for Hetty R. Green, the building was erected in 1931 and was in large part the gift of Mrs. Green's son and daughter, Col. Edward H. R. Green and Mrs. Mathew A. Wilks. The carillon in the Galen L. Stone Tower was the gift of Mrs. Charlotte Nichols Greene.

### GREENHOUSES

Classrooms in the biological science department open directly into the greenhouses. They honor former Wellesley professor of Botany, Margaret C. Ferguson and bear her name. The climate in the greenhouses ranges from temperate to tropic with many excellent examples of trees and flowers which flourish in the respective temperatures. There is extensive space for experiments by faculty and students. The greenhouses are open to the public daily throughout the entire year.

### HOUSING FOR FACULTY AND STAFF



in the northeastern section of the campus, others east and south of the main campus. Wellesley maintains 37 houses and 65 apartments for faculty and administrative staff.

Other campus buildings house maintenance and house-keeping staff.

## INFIRMARY

The Simpson Infirmary, a 29-bed hospital and outpatient clinic, was built in 1942. It is connected to the original infirmary (1881) which is now used for staff housing.

## LIBRARY

The Library's collection exceeds 415,000 volumes including some departmental and special collections. Periodicals number more than 1,800. In addition, the College has a rare book collection with examples which date from the 15th century to the present.

There is a seating capacity of 700, with 230 study carrels and 20 faculty studies. A language laboratory is available as are listening units for the collection of spoken and dramatic recordings. Special meetings, lectures and discussions may be held in the Library's Pope Room which seats 100.

The Library, erected in 1910 and first enlarged in 1916, was the gift of Andrew Carnegie. A new wing in 1957, and renovations to the new building as well as the installation of the language laboratory in 1958 were the gifts of alumnae and friends, especially of David M. Mahood and Mrs. Helen M. Petit in memory of Helen Ritchie Petit of the Class of 1928. The Library is open to the public daily while College is in session and Monday through Friday during vacation.

## MAINTENANCE

The maintenance building and nearby physical plant supply the services and utilities necessary to the upkeep of the College. Here are located the offices for grounds and security, housekeeping, buildings, and the resources for all utilities.

## OBSERVATORY

The Whittin Observatory contains laboratories, classrooms, darkrooms, and the library of the astronomy department. Its research equipment includes a six-inch, a twelve-



inch, and a twenty-four inch telescope. The gift of Mrs. John C. Whitin, a trustee of the College, the observatory was built in 1900 and enlarged in 1962 and 1966. It is considered to be an unusually fine facility for undergraduate training in astronomy.

#### PHYSICAL EDUCATION AND RECREATION

Classes for all indoor sports and for modern dance are conducted in Mary Hemenway Hall, the gymnasium, and in the nearby Recreation Building. The latter has game rooms, badminton and squash courts, and a large swimming pool. Outdoor water sports center around the boat-house where the canoes and crew shells are housed. Wellesley maintains a nine-hole golf course, 16 tennis courts, and hockey and lacrosse fields.

The older of the two buildings, Hemenway, was built in 1909, when the Boston Normal School of Gymnastics affiliated with the College and Mrs. Hemenway of Boston provided the funds for the building. The Recreation Building was opened in 1939. Its pool bears the name of George Howe Davenport, a trustee and generous benefactor of the College.

#### PRESIDENT'S HOUSE

The President's House, formerly the country estate of Wellesley's founders, the Durants, sits on a hill just south of the main campus. The house overlooks spacious lawns and the lake. Remodeled and renovated in 1968, the house is now occupied by President Adams. It is frequently opened to various groups from the college community and is also the scene of alumnae and trustee gatherings as well as receptions for distinguished visitors.

#### RESIDENCE HALLS

The thirteen residence halls are arranged in four groups: one in the northwest corner of the campus; another west, on the hill overlooking the Lake; a third slightly southeast of the lake shore; and the fourth stretching to the northeast. The buildings have large spacious livingrooms and smaller common rooms. Each has its own dining facilities, and there are both single and double rooms. Almost all the buildings have a small kitchenette on each floor and every building has coin operated washers and dryers. There are separate apartments for the heads of houses. The residence halls bear the names of past presidents, faculty and students, as



well as alumnae, trustees and friends of the College.

Each residence, its location and student capacity is listed below :

Munger Hall and Hazard Quadrangle		Northwest
Munger	125 students	
Hazard Quadrangle :		
Beebe	120 students	
Cazenove	120 students	
Pomeroy	120 students	
Shafer	120 students	
Tower Court	245 students	West
Claflin	120 students	
Severance	150 students	
Stone-Davis		Southeast
Stone	100 students	
Davis	100 students	
Bates-Freeman-McAfee		Northeast
Bates	140 students	
Freeman	140 students	
McAfee	140 students	

In addition to residence halls for students, there are five dormitories used exclusively for housing college employees engaged in food and household services.

#### SAGE HALL

Located some distance from the academic quadrangle and on the northeast side of the campus, Sage Hall houses the biological sciences and geology departments. The building has laboratories, lecture rooms, a library, vivarium, aquarium, a teaching museum and an extensive map collection for geography.

#### SOCIETY HOUSES

There are five houses for special interest groups, three located south of the Library, another south of Billings, and

one, Shakespeare, west of the Jewett Arts Center. Each house has kitchen and dining facilities, a livingroom and other gathering rooms. Members are drawn from all four classes, beginning with second semester freshmen. The Society houses and their purposes and interests are listed below :

Agora  
Phi Sigma  
Shakespeare  
Tau Zeta Epsilon  
Zeta Alpha

Politics and sociology  
Modern Literature  
Shakespearean drama  
Art and Music  
Modern Drama

#### WELLESLEY COLLEGE CLUB

Completed in 1963, the Club is a center for faculty, staff and alumnae. Its handsome reception rooms and dining rooms are used for many special occasions and daily by its members for lunch and dinner. There are a number of bedrooms for guests, alumnae, and parents of students and prospective students.



# The Curriculum









The curriculum provides a framework within which students are invited to explore various fields in the arts and sciences. When students decide on an area of concentration they then select courses in other fields to provide complementary or contrasting experiences. These, together with the major, enable students to achieve a broadly liberal education.

In developing the curriculum, the faculty has tried to present diverse offerings among which students will gradually perceive interrelationships. Through study of different disciplines and bodies of knowledge, students perceive the coherent unity among diversity which is traditionally termed a liberal education.

By the time the Bachelor of Arts degree is earned, the student should be acquainted with the main fields of human interest, capable of integrating knowledge from various fields, and prepared for continuous scholarly growth and responsible participation in society. In the major field, the student is expected to demonstrate maturity of thought, acquaintance with recognized authorities in the field, and general competence in dealing with sources of research or analysis.

## THE CURRICULUM

## Requirements for the Degree of Bachelor of Arts

Each candidate for the degree of Bachelor of Arts is required to complete 32 units of academic work at a C average or better. Each semester course is assigned 1 unit of credit. The normal period of time in which to earn the degree is four years and a normal program of study consists of four courses a semester.

### GENERAL REQUIREMENTS

In order to provide students with as much freedom as possible, Wellesley requires no specific courses. To insure, however, that students gain insight and awareness in areas outside their own majors the College does require that they choose three semester courses in each of three general areas during the four year period. These three groupings are:

**Group A** Literature, Foreign Languages, Art, and Music  
3 units chosen from courses in the Departments of Art, English, French, German, Greek, Latin, Italian, Music, Russian, Spanish; or from courses in Chinese; or, extra-departmental literature courses.

**Group B** Social Science, Religion and Biblical Studies, and Philosophy

1 or 2 units chosen from courses in the Departments of History, Philosophy, and Religion and Biblical Studies,

and

1 or 2 units chosen from courses in the Departments of Economics, Political Science, Psychology, Sociology and Anthropology.

**Group C** Science and Mathematics

3 units, at least 1 of which shall be in a laboratory science, chosen from courses in the Departments of Astronomy, Biological Sciences, Chemistry, Geology, Mathematics, Physics, or the extradepartmental course History of Science II.

Freshmen are encouraged to carry a maximum of four courses each semester, but upperclassmen may take five.

Before the beginning of the senior year students must exhibit a degree of proficiency in the use of one foreign language, either ancient or modern. Many students fulfill the requirement by passing one of the language tests offered by the College Entrance Examination Board (CEEB). Wellesley requires scores of 610 or better on the CEEB Achievement Test, or a score of at least 3 on the Advanced Placement Examination (AP). This requirement can also be met by the completion of 2 units of language study above the first year level. Students may take beginning courses in only two **modern** foreign languages. Credits for the foreign language requirement cannot be attained at summer school.

In addition each student must complete the physical education requirement described on p. 131, for which no academic credit is given.

Students are expected to use acceptable standards of spoken and written English in their college work. Remedial services in English, mathematics and other basic and special skills are offered at the College.

Students must complete satisfactorily two years of study at Wellesley College one of which must be the senior year. Married seniors may have special permission to spend the senior year at one of five specified colleges and still earn a B.A. degree from Wellesley.

## The Major

Wellesley students may choose among 26 majors including four interdepartmental majors: Afro-American Studies, Classical Archaeology, Molecular Biology and United States Studies. Of the 32 units required for graduation, at least 8 are to be elected in the major, and no more than 14 in any one department.

Some students may choose a program which centers upon a specific geographical area or historical period, or elect courses, the subject matter of which crosses conventional departmental lines. Students do this by choosing a major, completing the required 8 units while judiciously selecting other courses of related interest. Some examples of possible area studies are Asia, Latin America, Russia; of periods, the Middle Ages, the Renaissance; of subjects, International Relations, Theatre Studies, Urban Studies. Students interested in such programs should consult the class dean and the chairmen of the appropriate departments as soon as possible in their college careers.

During the second semester of the sophomore year, students are expected to select a major. With the help of

a faculty adviser, the student prepares for the recorder a statement of the courses to be elected in the major. Later revisions may be made with the approval of the chairman of the major department and presented to the Recorder not later than the second semester of the junior year.

Courses are classified in Grades I, II and III. Introductory courses are numbered 100–199 (Grade I); intermediate courses, 200–299 (Grade II); advanced courses, 300–370 (Grade III). Each student shall include at least 4 units of Grade III work, at least 2 of which shall be in the major. The program in the senior year may not include more units of Grade I than of Grade III work and at least 2 must be of Grade III.

### **Exemption from Required Studies**

Students may be exempted from any of the studies required for the degree, provided they can demonstrate to the department concerned a reasonable competence in the elements of the course. Exemption from any of the studies required does not affect the general requirement for completion of 32 units for graduation. It does, however, make it possible for some students to select more advanced courses earlier in their college careers.

Such exemption may be achieved in one of two ways:

A score of 4 (Honors) or 5 (High Honors) on the CEEB Advanced Placement Test (AP);

or

Passing a special exemption examination.

Permission for the exemption examination must be obtained from the class dean and the chairman of the department concerned. (See **Examinations**.) In addition to the evidence offered by the examination some departments may require the student to present a paper or an acceptable laboratory notebook.

### **Credit for AP Examinations**

Students who have received scores of 4 or 5 on AP examinations may apply for Wellesley College credits in the appropriate subjects. Students who present acceptable AP scores in more than one subject receive automatically, upon request, 2 units of credit in **one** of these subjects provided that they do not take a beginning course which covers substantially the same material. AP credits in other subjects will be awarded retroactively upon the completion of a

semester course for which the AP course is an appropriate prerequisite with a grade of C or better. There is no limit to the number of units which the student may earn through the Advanced Placement Program, though not more than 2 units will be credited in any one subject.

### **Credit for Other Academic Work**

In addition to credit earned through the AP examination, students may earn credit for work not done at Wellesley by attending summer school, or by independent study off campus, which is then evaluated by a Wellesley department. No more than 2 units can be earned by each method.

### **Examinations**

An examination period occurs at the end of each semester. Special examinations are offered in September to qualified students to earn credit for work done independently, for admission to advanced courses without the stated prerequisites, and for exemption from required studies.

Students who wish credit towards the degree for work done independently in the summer, or for more than 2 units taken in summer school, should consult the appropriate department and the class dean, and should apply to the Recorder at least a month in advance for a special examination to be given at the beginning of the college year.

### **Research or Individual Study**

Each department of the College which offers a major course of study provides the opportunity for certain students to undertake a program of individual study directed by a member of the faculty. Under this program an eligible student may undertake a research project or a program of reading in a particular field. The results of this work normally will be presented in a final report or in a series of short essays. The conditions for such work are described under the course numbered 350 in each department. Further opportunities for research and individual study are described under the Honors Program.

### **Freshman-Sophomore Colloquia**

These colloquia give students the chance to work closely in small groups with individual faculty members. They are



designed to provide the sort of educational experience which previously was enjoyed only by upperclassmen. They are similar to the advanced seminars in that they stress independent work, discussion, and oral and written presentations.

### **Cross-Registration Program with the Massachusetts Institute of Technology**

A five-year experimental program of cross-registration of students at Wellesley and the Massachusetts Institute of Technology was officially inaugurated in 1968-69. The program allows students to elect courses at the other institution, and extends the diversity of educational experiences available in the curriculum and in the environments of each. The two schools combine their academic, extra-curricular, and operational resources while maintaining the separate strengths, independence, and integrity of each institution.

A Wellesley student interested in exploring the possibilities of electing a specific course at M.I.T. should consult her department adviser or the appropriate exchange program faculty adviser.

### **Academic Distinctions**

#### **THE HONORS PROGRAM**

The Honors Program is open to students with strong academic records who wish to undertake independent work in their senior year. Each candidate for honors completes an individually chosen research project, supervised by a member of the faculty and entered on the record as 370, Honors Research (2 units). The successful completion of the independent work and of the honors examinations leads to the award of Honors or High Honors in the Major Subject.

#### **OTHER ACADEMIC DISTINCTIONS**

The College names as Pendleton Scholars certain entering freshmen who submit outstanding credentials for admission. It confers Freshman Honors on the students who maintain high academic standing during the freshman year and names in convocation the juniors and seniors whose records after the freshman year are at the level of Wellesley College Scholars and Durant Scholars. Final





honors, conferred at Commencement, are based on academic records after the freshman year and include the title Wellesley College Scholar for high academic standing and Durant Scholar for the highest academic standing.

Juniors and seniors are elected to membership in the Eta of Massachusetts Chapter of Phi Beta Kappa on the basis of their total academic achievement in college, and seniors who are majoring in the sciences may be elected to associate membership in the Wellesley Chapter of Sigma Xi, national honorary scientific society.

On recommendation of the faculty the Trustees award to four seniors who intend to pursue graduate studies the title of Trustee Scholar. The awards are made on a competitive basis in two categories: two for graduate study without restriction as to subject; two for graduate study undertaken as preparation for college teaching. The title is honorary; in cases of financial need stipends are awarded to the Scholars or, if not required by them, to alternates who need financial assistance. Applications and supporting credentials are due in the President's Office by January 14.

Certain prizes have been established at the College for the recognition of merit in a particular field. They carry a small stipend or gift and usually bear the name of the donor or the person honored.

## **Requirements for the Degree of Master of Arts**

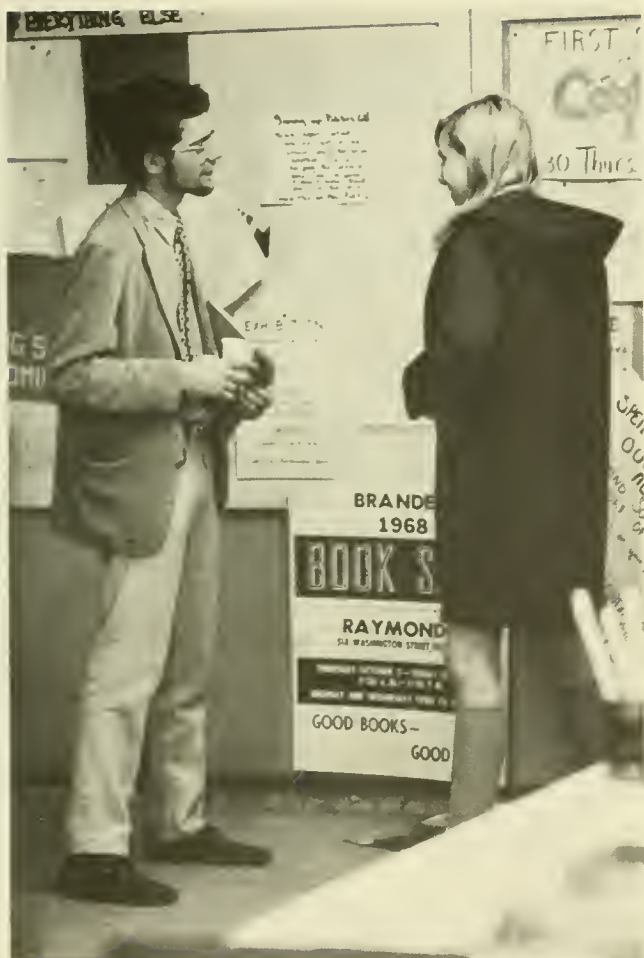
The Master of Arts degree is offered in a few departments, primarily in the sciences. The College does not maintain a program of courses for graduate students separate from those offered for undergraduates. Properly qualified graduate students are admitted to Grade III courses, to seminars, and to course 350, Research or Individual Study.

A candidate for the degree of Master of Arts is required to complete 8 units of graduate work, which ordinarily includes a thesis embodying the results of original research. The program is arranged by the student's major department and is subject to the approval of the Committee on Graduate Instruction. A reading knowledge of French or German, to be tested by examination at entrance, is required. Individual departments may require a second language. At least one year in residence is required of all candidates.

Information regarding admission, living arrangements and graduate assistantships may be obtained from the Committee on Graduate Instruction, Office of the Dean of the College.



## COURSES OF INSTRUCTION



A semester course which carries 1 unit of credit requires approximately eleven hours of work each week spent partly in class and partly in preparation. The amount of time scheduled for classes varies with the subject from two periods each week in many courses in the humanities and social sciences to three, four, or five scheduled periods in certain courses in foreign languages, in art and music, and in the sciences. Classes are scheduled from Monday morning through late Friday afternoon; examinations may be scheduled from Monday morning through late Saturday afternoon.

## Legend

The following symbols will be used for special designations :

- a = Absent on leave
- a<sup>1</sup> = Absent on leave during the first semester
- a<sup>2</sup> = Absent on leave during the second semester
- <sup>3</sup> = Part-time instructor
- [ ] = Numbers in brackets designate courses listed only in earlier catalogs.
- ∗ = Offered in alternate years. Note: Unless specifically stated such courses will be offered in 1969–1970.
- ∗∗ = Course may be elected to fulfill in part the distribution requirement in Group A.
- ∗∗∗ = Course may be elected to fulfill in part the distribution requirements in Group C.

## Courses numbered

- 100–199 = Grade I courses
- 200–299 = Grade II courses
- 300–370 = Grade III courses
  - (1) = Offered in first semester
  - (2) = Offered in second semester
  - (1) (2) = Offered in either semester
  - (1-2) = Continued throughout the school year.
  - 1 or 2 = Units of credit.



## History of Art

Many of the courses in art history include some laboratory work in the one or more media with which the course is concerned. The department believes that laboratory training has great value in developing observation and understanding of artistic problems, and for this reason requires it of majoring students. It should be stated, however, that no particular aptitude is required and that the work is adjusted to the student's ability.

### 100 (1-2) INTRODUCTORY COURSE 2

The major styles in western architecture, sculpture, and painting from ancient Greece to c. 1800. A foundation for further study of the history of art. Simple laboratory work requiring no previous training or artistic skill planned to give the student a greater understanding of artistic problems. Open only to freshmen and sophomores.

#### THE STAFF

### 200 (1-2) ARTS OF THE ANCIENT WORLD 2

A general exploration of characteristic forms of art and architecture in early civilizations around the Mediterranean: the Stone Age, Egypt and Mesopotamia, Crete and Mycenae, classical Greece, Etruria, Rome, and the early Byzantine world. First semester: cities and their functions, public monuments, sculpture, techniques of archaeology. Second semester: religious and private life, funeral customs, painting, minor arts, aesthetics. Either semester may be taken independently. Laboratory to be offered in the first semester. Background reading is required if elected in second semester only. Prerequisites: Art 100 or 215 or permission of the instructor.

MRS. VERMEULE, MRS. FRISCH

## ART

PROFESSORS: Shell (Chairman), Vermeule  
 ASSOCIATE PROFESSOR: Frisch  
 ASSISTANT PROFESSORS: Anderson<sup>a</sup>,  
 Fergusson, Wallace, Moffett  
 INSTRUCTORS: Janis, Aiken  
 LECTURER: Clapp<sup>3</sup>  
 RESIDENT ARTISTS: Rayen<sup>a</sup>, Abeles<sup>a</sup>,  
 Larrabee, Sokoloff  
 VISITING RESIDENT ARTIST: Robinson



202 (1) MEDIEVAL SCULPTURE AND PAINTING 1

A study of western European sculpture, manuscript painting, ivories, and metal work from the late Roman through the High Gothic period. Laboratory work consisting largely of modeling, carving, and illumination. Open to sophomores who have taken 100, and to juniors and seniors without prerequisite.

MR. FERGUSSON, MRS. FRISCH

203 (2) MEDIEVAL ARCHITECTURE 1

The architecture of Western Europe from the fall of Rome to the beginning of the Renaissance with particular concentration on the great Romanesque and Gothic monuments. Occasional laboratory work. Open to freshmen and sophomores who have taken or are taking 100, and to juniors and seniors without prerequisite.

MR. FERGUSSON

207 (2) CHINESE ART 1

Survey of the major artistic traditions of China in monuments of the Bronze Age, Buddhist sculpture, and painting from the Han to the Ch'ing Dynasty. Open to sophomores, juniors, and seniors who have taken one course in the history of art or History 226 or 227 or 338.

MRS. CLAPP

215 (1) EUROPEAN ART THROUGH THE RENAISSANCE 1

The major movements in architecture, sculpture, and especially painting from classical antiquity to c. 1550. Open to sophomores who have taken History 100 or its equivalent, or Italian 100 or its equivalent, and to juniors and seniors without prerequisite. Not open to students who have taken Art 100.

MRS. AIKEN

216 (2) EUROPEAN ART FROM THE RENAISSANCE TO THE PRESENT 1

Western art from the Renaissance to the present with emphasis on painting, sculpture, and architecture. Open to sophomores who have taken 215, and to juniors and seniors without prerequisite. Not open to students who have taken 100.

MRS. JANIS



219 (1) PAINTING AND SCULPTURE OF THE NINETEENTH CENTURY 1

A study of painting and sculpture of the 19th century in Europe and America with emphasis on France. Open to sophomores who have taken 100, by permission to freshmen who are taking 100, and to juniors and seniors without prerequisite. MRS. JANIS

220 (1) PAINTING AND SCULPTURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN SOUTHERN EUROPE 1

A study of Italian and Spanish painting and sculpture with special emphasis on Caravaggio and Bernini, and on El Greco and Velasquez. Prerequisite: same as for 202. MR. WALLACE

221 (2) PAINTING AND SCULPTURE OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES IN NORTHERN EUROPE 1

Flemish, Dutch, French, and German painting and sculpture of the 17th century with emphasis on Rembrandt and Rubens. French and English painting and sculpture of the 18th century. Prerequisite: same as for 202. MR. WALLACE

224 (1-2) MODERN ART 2

The major developments in painting, sculpture, and architecture from early in this century to the present. Laboratory work in the first semester. Conference sections in second semester. Background reading is required if elected in second semester only. Either semester may be taken independently. Prerequisite: 100 or 216 or 219, or permission of the instructor.

MR. MOFFETT, MRS. FRISCH

225 (1) AMERICAN ART 1

A survey of American art from colonial times to the present. Emphasis on developments in painting, sculpture, architecture, and the decorative arts before 1900. Some attention given to the relation between the art and the social history and literature of the time. Prerequisite: same as 202. MR. MOFFETT

302 (1) ITALIAN PAINTING: THE FOURTEENTH 1  
AND FIFTEENTH CENTURIES

A study of selected artists whose work significantly illustrates the character of the late medieval and the early Renaissance styles. Particular attention to Florentine masters. Laboratory work. Open to juniors and seniors who have taken or are taking a Grade II course in the department, or by permission of the instructor.

MR. SHELL, MR. LARRABEE

303 (2) ITALIAN PAINTING: THE SIXTEENTH 1  
CENTURY

Studies of the major masters of the High Renaissance followed by the examination of some selected Mannerist painters and of those developments within 16th century painting which lead in the direction of the Baroque. Considerable attention to Venetian masters. Laboratory work. Prerequisite: same as for 302.

MR. SHELL, MR. LARRABEE

304 (1) LATE MEDIEVAL AND RENAISSANCE 1  
SCULPTURE

A study of major sculptors from the 14th century to the end of the 16th century with emphasis on Italy and the work of Giovanni Pisano, Donatello, Ghiberti and Michelangelo. Prerequisite: same as for 302. MRS. AIKEN

306 (1) (2) THE GRAPHIC ARTS FROM THE 1  
RENAISSANCE TO THE PRESENT

Emphasis on the styles of Dürer, Rembrandt, Goya, Picasso. Special attention to the influence of technique upon style. Laboratory instruction in the processes of woodcut, engraving, etching, lithography. Visits to collections. Open by permission to juniors and seniors who have taken a Grade II course in the department.

(1) MRS. JANIS, MR. ROBINSON

(2) MR. SOKOLOFF

308 (2)\* RENAISSANCE AND BAROQUE 1  
ARCHITECTURE

The early and High Renaissance, Mannerist, and Baroque styles of the 15th through the 18th centuries, with particular



emphasis on Italy. Prerequisite: same as for 302. **Not offered in 1969-70.**

311 (2) PAINTING OF NORTHERN EUROPE 1

The period from the late 14th century to the mid-16th century in France, Germany, and the Low Countries. Laboratory work. Prerequisite: same as for 302.

MRS. AIKEN, MRS. FRISCH

312 (2) PROBLEMS IN NINETEENTH AND EARLY TWENTIETH CENTURY ART 1

A study of special problems of interpretation in 19th and early 20th century art, e.g., "Romantic Imagery," "Interpretations of Manet," "Photography and Painting," "Historicism," "Origins of Abstraction." Emphasis on extensive reading and class discussion. Prerequisite: 219 or permission of the instructor.

MRS. JANIS

330 (2)\* SEMINAR. ITALIAN PAINTING 1

Intensive study of one or more of the fundamental problems in the history of Italian painting. Open by permission to juniors and seniors who have taken 302 or 303. **Not offered in 1969-70.**

MR. SHELL



331 (2)\* SEMINAR 1

Topic for 1970-71 to be announced. **Not offered in 1969-70.** MR. SHELL

332 (2)\* SEMINAR. MEDIEVAL ART 1

Intensive study of one or a series of related problems in medieval painting or sculpture. Open by permission to juniors and seniors who have taken 202 or 203. **Not offered in 1969-70.**

333 (1)\* SEMINAR. BAROQUE ART 1

Problems of style, connoisseurship, and iconology in 17th century art concentrating on major Italian or northern Baroque masters. Open by permission to juniors and seniors who have taken 220 or 221. MR. WALLACE

334 (2)\* SEMINAR. ANCIENT ART 1

Intensive study of one or more of the fundamental problems in the history of ancient art. Open to juniors and seniors who have taken 201 or by permission of the instructor. **Not offered in 1969-70.**

335 (2)\* SEMINAR. SELECTED PROBLEMS IN THE HISTORY OF ART 1

Topic for 1969-70: Intensive study of problems in the field of modern art. Prerequisite: permission of the instructor. MR. MOFFETT

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

MR. SHELL, MR. WALLACE, MRS. AIKEN

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to juniors and seniors who have taken or are taking a Grade III course.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Studio Courses

As many as 4 units of studio work may be counted toward the degree provided an equal number of units in the history of art is counted. Studio work should ordinarily follow or be concurrent with work in the history of art.

104 (2)\* INTRODUCTORY SCULPTURE 1

Basic modeling with emphasis on intensive observation of natural forms to develop the ability to translate volume and space into sculptural terms. Some work in terra cotta, direct plaster, and casting. Open to sophomores, juniors, and seniors, and by permission to freshmen who have studied art before entering college. Four periods of class instruction and four of studio practice.

MR. LARRABEE

105 (1) (2) INTRODUCTORY DRAWING 1

Introductory drawing with emphasis on basic forms in spatial relationships. Stress on the essential control of line in a variety of media. Prerequisite: same as for 104. Four

periods of class instruction and four of studio practice.

(1) (2) MR. SOKOLOFF

(2) MR. ROBINSON

106 (1) INTRODUCTORY COLOR AND PAINTING 1

Basic problems in the interaction of colors; study of basic forms in plastic relationships. Prerequisite: same as for 104. Five periods of class instruction and three of studio practice. MR. ROBINSON

206 (2) WATERCOLOR AND OIL PAINTING 1

Landscape, still life, and painting from model. Open to sophomores, juniors, and seniors who have taken 100 or 105 or 106. Five periods of class instruction and three of studio practice. MRS. FRISCH

208 (2)\* ADVANCED DRAWING 1

An approach to drawing based upon both direct visual observation and stylistic analysis of master drawings. Problems dealing with the progress from line to form to chiaroscuro. Study of anatomy and composition. Open to sophomores, juniors, and seniors who have taken 105, or by permission upon presentation of a portfolio. Five periods of class instruction and three of studio practice.

MR. LARRABEE

### Directions for Election

A major in art must include course 100 (unless an exemption examination is passed) and at least 6 further units in the history of art, chosen to make adequate distribution in the different arts and different periods. Normally 4 units should be elected outside the special area of concentration.

The department does not encourage over-specialization in one area but, by careful choice of related courses, a student majoring in art may plan a field of concentration emphasizing one period such as Ancient, Medieval, Renaissance, Baroque, 19th or 20th Century art. Students interested in such a plan should consult the chairman of the department as early in the freshman or sophomore year as possible.

A reading knowledge of German and French, or Italian, is strongly recommended.

The attention of students is called to the extradepartmental program in classical archaeology.



103 (1) (2) INTRODUCTION TO ASTRONOMY 1

Relationships of earth and sky; the solar system, stars, and galaxies. Open to all students. Two periods of lecture and discussion weekly with a third period every other week; laboratory in alternate weeks, and evening work at the Observatory, unscheduled, for observation and use of the telescopes. MISS HILL, MR. BIRNEY

104 (2) STELLAR AND GALACTIC ASTRONOMY 1

The following topics from Astronomy 103 will be discussed in depth: the sun, ages and evolution of stars, stellar populations, variable and unusual stars, the universe of galaxies. Open to students who have taken Astronomy 103 and who have 4 admission units in mathematics or have taken or are taking Mathematics [109] or 110 or the equivalent. MISS HILL

200 (2) MODERN PHYSICS 1

For description and prerequisite see Physics 200.

202 (1) OPTICAL PHYSICS 1

For description and prerequisite, see Physics 202.

203 (2) RECENT DEVELOPMENTS IN ASTRONOMY 1

Contemporary problems in optical, radio, and space astronomy. Astronomical observations from outside the earth's atmosphere. Galactic and extragalactic radio sources. Radio galaxies and quasars. Prerequisite: 103 or [105].

MR. BIRNEY

206 (1) BASIC ASTRONOMICAL TECHNIQUES 1

Visual and photographic use of telescopes. Measurement and reduction of photographic plates. Analysis of observa-

# ASTRONOMY

PROFESSOR: Hill (Chairman)  
ASSOCIATE PROFESSOR: Birney

tions. Selected problems in practical astronomy. Prerequisite: 103 or [105] and Mathematics [109] or 111.

MISS HILL

216 (1) APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES I 1

For description and prerequisite see Extradepartmental 216.

217 (2) APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES II 1

For description and prerequisite see Extradepartmental 217.

302 (2) GALACTIC STRUCTURE 1

Distribution and kinematics of the stellar and nonstellar components of the Galaxy. Local structure, solar motion, velocity ellipsoids. Large scale structure, populations, rotation. Prerequisite: 103 or [105], and 217 or Mathematics [204] or 208.

MISS HILL

304 (1)\* INTRODUCTION TO ASTROPHYSICS 1

The physical nature of the sun and stars derived from analysis of their spectra. Prerequisite: same as for 302.

MR. BIRNEY

305 (1)\* SELECTED TOPICS 1

Intensive study of a specific field. Prerequisite: same as for 302. **Not offered in 1969-70.**

MR. BIRNEY

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to juniors and seniors by permission.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

## Directions for Election

The following courses form the minimum major: [105] or 103–104, 206, 217, 302, 345; Physics 200, 202. In planning a major program students should note that some of these courses have prerequisites in mathematics and/or physics. Additional courses for the major may be elected in the Departments of Physics, Mathematics, Astronomy.

A substantial background in physics is required for graduate study in astronomy. A student planning to enter graduate school in astronomy should supplement the minimum major with courses in physics, including Physics 306 and, if possible, other work at the Grade III level. The student is also urged to acquire a reading knowledge of French, Russian, or German.

Unless otherwise noted all courses meet for five periods of lecture, discussion, and laboratory weekly.

### 103 (1) (2) PLANT BIOLOGY 1

Investigations of plants in the laboratory, field, and greenhouses through observations and experimentation. Emphasis on growth and reproduction in the flowering plants. Open to all students except those who have taken [102].

MISS CREIGHTON, MR. BIBB

### 104 (1) MICROBIOLOGY 1

Structure, growth, reproduction, and activities of microorganisms, their interaction with the environment, and their economic uses. Open to all undergraduates except those who have taken [204].

MRS. WYCKOFF, MRS. ALLEN

### 105 (1) (2) ANIMAL BIOLOGY 1

Investigations of representative animals through observations and experimentation. Emphasis on structure and function in relation to the external and internal environment; some work in embryology and the theory of evolution. Open to all students except those who have taken [102].

(1) MRS. FISKE, MRS. HARRISON

(1) (2) MRS. HOROWITZ

## BIOLOGICAL SCIENCES

PROFESSORS: Creighton, Wyckoff, (Chairman) Fiske, Padykula

ASSOCIATE PROFESSORS: Gauthier, Widmayer

ASSISTANT PROFESSORS: Harrison, Melvin, Bibb, Allen, Yang, Smith, Medoff<sup>3</sup>, Rubenstein

106 (1) (2) CELL BIOLOGY 1

Investigations of cells and organisms through observation and experimentation. Study of cell structure, cell chemistry, energy relationships, and genetics. Open to all students except those who have taken [101].

(1) MRS. MELVIN

(1) (2) MISS WIDMAYER

(2) MRS. ALLEN, MRS. YANG

150 (2) COLLOQUIUM 1

For description of topics and directions for applying, see p. 176. Open by permission to a limited number of freshman and sophomore applicants.

201 (1) (2) ENVIRONMENTAL BIOLOGY 1

Limiting factors of the environment, human populations, pollution, pesticides, parasites and biological control. Major habitats, biogeography, and succession. Studies in field and laboratory. Open to freshmen and sophomores who have taken 1 unit of biology, and to juniors and seniors without prerequisite.

MISS SMITH

202 (2) COMPARATIVE ANATOMY 1

Comparative anatomy of the chordates with emphasis on evolutionary trends within the vertebrate group. Dissection of representative forms including the dogfish and the cat. Open to freshmen and sophomores who have taken [102] or 105, and to juniors and seniors without prerequisite.

203 (2)\* BIOLOGY OF FERNS, GYMNOSPERMS,  
AND ANGIOSPERMS 1

Structure, function, and identification of the vascular plants. Observation and experimentation in the laboratory, field, and greenhouses. Open to students who have had [102] or 103 or the equivalent. **Not offered in 1969-70.**

MISS CREIGHTON

205 (1) GENETICS 1

Principles of inheritance; structure and function of hereditary informational molecules; application of genetic

principles to biological problems. Material includes plant, animal, microbial and human studies. Prerequisite: [101] or 106 or the equivalent.

MISS CREIGHTON  
MISS WIDMAYER

206 (1) HISTOLOGY-CYTOLOGY I: 1  
ANIMAL TISSUES

The microscopic organization of animal cells and tissues. Ultrastructural and cytochemical features considered, especially in relation to functional activity. Laboratory study includes direct experience with selected histological and histochemical techniques. Prerequisite: [101] or 106, and [102] or 105 or 202 or the equivalent.

MISS PADYKULA, MISS GAUTHIER

207 (2)\* BIOLOGY OF ALGAE, FUNGI, 1  
LICHENS AND BRYOPHYTES

A study of the nonvascular plants with emphasis on their use as experimental organisms, and their morphology and taxonomy. Observation and experimentation in the laboratory, field, and greenhouses. Open to students who have taken 1 unit of biology or the equivalent.

MR. BIBB

208 (2) BASIC HORTICULTURE 1

The fundamentals of cultivation and propagation of house and garden plants and the methods of control of plant pests and diseases. Open to juniors and seniors without prerequisite, and to others who have had [102] or 103 or the equivalent.

MISS CREIGHTON

209 (1) GENERAL BACTERIOLOGY 1

Structure of bacteria, their physiological processes, and their environmental and biological interrelationships. Emphasis on current bacteriological techniques. Prerequisite: 1 unit in biology and 1 unit in chemistry, or 2 units in chemistry.

MRS. WYCKOFF

301 (1) CELL PHYSIOLOGY 1

Chemical and physical phenomena of life processes and molecular mechanisms underlying structure and function

of cells. Prerequisite: 106 and Chemistry 107, or permission of the instructor. Chemistry 201 and 210 are recommended.

MRS. YANG

302 (2) ANIMAL PHYSIOLOGY 1

Study of function of organ systems in animals. Emphasis on the vertebrates. Prerequisite: 301 or 322 or 323 or permission of the instructor.

MRS. FISKE, MRS. HARRISON

303 (1) PLANT PHYSIOLOGY 1

Hormonal and other aspects of plant growth and development, physiology of reproduction, mineral nutrition, water relations, photosynthesis, and selected topics. Prerequisite: [102] or 103, or 301 or permission of the instructor.

MR. BIBB





304 (2) HISTOLOGY-CYTOLOGY II: 1  
ANIMAL ORGAN SYSTEMS

Analysis of the microscopic organization of organ systems, particularly those of the mammal. Detailed examination of selected specialized cells; the relationship of ultrastructural and cytochemical features to characteristic physiological processes. Prerequisite: 206.

MISS PADYKULA, MISS GAUTHIER

305 (2) ADVANCED GENETICS 1

Cytological and biochemical aspects of gene structure and function; mutational and recombinational processes; problems of cellular differentiation. Prerequisite: 205 and a knowledge of chemistry satisfied by either 301, or Chemistry 201 or the equivalent, or permission of the instructor.

MISS WIDMAYER

306 (1) EMBRYOLOGY 1

Development from the fertilized egg through formation of organ systems. Study of morphogenesis in vertebrates and differentiation dynamics in many organisms. Prerequisite: 202 or 301 or [321] or 323.

MRS. MEDOFF

307 (2)\* POPULATION AND COMMUNITY 1  
ECOLOGY

Species population dynamics and structure; interspecific competition and speciation; community structure and metabolism. Extensive readings in primary source material. Laboratory and field studies. Prerequisite: 201 or permission of the instructor. **Not offered in 1969–70.**

308 (2)\* PLANT MORPHOGENESIS 1

Development of form in plants; internal and external factors affecting morphogenesis. Preparation of tissues for microscopic study. Prerequisite: 203, 205, and 301. 303 is recommended. **Not offered in 1969–70.**

MISS CREIGHTON

312 (1) ENDOCRINOLOGY 1

Regulation and action of hormones, neurohormones, and pheromones. Emphasis on the study of current literature,

and an original group laboratory project. Prerequisite: 301 or 302 or 322 or permission of the instructor.

MRS. FISKE

313 (2) MICROBIAL PHYSIOLOGY AND CYTOLOGY 1

Microorganisms used as model systems for the study of cellular growth and its physiological basis, metabolic patterns, biochemical genetics, and relation of structure to function. Prerequisite: 106 and 2 units of chemistry, or permission of the instructor. 104 or 209 or [309] recommended.

MRS. ALLEN

314 (2) ADVANCED TOPICS IN MICROBIOLOGY 1

Topic for 1969–70: Emphasis will be on systematic study of bacteria including serological relationships and roles in disease and immunity. Topic for 1970–71: Nature of viruses and their interaction with plant, animal, and bacterial hosts. Prerequisite: 209 or [309] or permission of the instructor.

MRS. WYCKOFF

319 (1) ADVANCED CYTOLOGY: ULTRASTRUCTURE AND CYTOCHEMISTRY 1

Introduction to the principles and major procedures of electron microscopy and cytochemistry. Emphasis on interpretation of ultrastructural and cytochemical features of cellular components, particularly as related to functional activity. A knowledge of the basic principles of biochemistry strongly recommended. Prerequisite: 304 and Chemistry 201.

MISS PADYKULA, MISS GAUTHIER

322 (1)\*\* BIOCHEMISTRY I 1

For description and prerequisite: see Chemistry 322.

323 (2)\*\* BIOCHEMISTRY II 1

For description and prerequisite: see Chemistry 323.

330 (1) SEMINAR. NEUROPHYSIOLOGY OF SENSORY SYSTEMS 1

processing of information. Discussion of accuracy and usefulness of perception. Detailed study of several sensory systems with some discussion of unusual sense organs not found in humans. Prerequisite: permission of the instructor.

MRS. HARRISON

345 (1) (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to juniors and seniors by permission.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

## Directions for Election

A biology major must include [101] or 106, and [102], 103, 104, or 105, or their equivalents; a Grade I course in physics, and Chemistry [103] or 106, or their equivalents. Biology 205 and Chemistry 107 and 201 are strongly recommended. Majors are urged to take Physics [104] or 106 and a Grade II course in physics, and are advised that a reading knowledge of one or more of the following languages is in general required for admission to graduate work: French, German, Russian.

Within the major students may design a program in general biology or one which emphasizes subjects dealing with animals or plants or microorganisms. A broad training in the various aspects of biology is recommended.

Students interested in an interdepartmental major in molecular biology or biochemistry are referred to the Extra-departmental section where the program is described. They should consult with the director of the molecular biology program.

Premedical students are referred to the requirements given on p. 31.

Biological Sciences 303, 305, 307, 308, 312, 313, 314, 319, 322, and 330 are particularly appropriate for graduate students.

# CHEMISTRY

PROFESSORS: Crawford, Webster, Rock  
(Chairman)

ASSOCIATE PROFESSOR: Loehlin<sup>a</sup>

ASSISTANT PROFESSORS: Friedman, Hicks,  
Kolodny, Katz<sup>3</sup>

Unless otherwise noted, all chemistry courses meet for two periods of lecture and one three and one-half hour laboratory appointment weekly.

## 101 (1) CONTEMPORARY PROBLEMS IN CHEMISTRY I 1

Consideration of selected aspects of chemistry and related chemical concepts. Topic for 1969–70: A study of the properties of water. Laboratory: chemistry of water pollution. Open to all students. Not to be counted toward the major.  
MISS CRAWFORD

## 102 (2) CONTEMPORARY PROBLEMS IN CHEMISTRY II 1

Consideration of selected aspects of chemistry and related chemical concepts. Topic for 1969–70: The puzzle of molecular asymmetry—Pasteur and the 20th century. Laboratory: a study of selected asymmetric systems. Open to all students. Not to be counted toward the major.

MISS WEBSTER, MR. KATZ

## 106 (2) CHEMICAL STRUCTURE 1

Properties of matter, atomic structure, bonding, and stereochemistry stressing the relationship between structure and properties. Open to students who have taken Physics 100, 103, or 105, or the equivalent. An extra meeting each week may be required for students who do not present one admission unit in chemistry and for those who may need supplementary work.  
THE STAFF

## 107 (1) EQUILIBRIUM 1

Acid-base, complex-ion, solubility, redox, and solvent-distribution equilibria. Open to students who have taken [103] or 106, or permission of the instructor.

MR. FRIEDMAN

## 201 (1) (2) ORGANIC CHEMISTRY 1

A study of the synthesis and reactions of typical organic compounds. Prerequisite: [103] or 106, and prerequisite or corequisite, 107, or AP credit in chemistry. An additional period may be required for AP students.

(1) MISS WEBSTER, MR. KATZ

(2) MISS CRAWFORD

202 (2) CHEMICAL THERMODYNAMICS 1

Elementary thermodynamics with applications to chemical systems. Prerequisite: [103] or 106, and 107. Prerequisite or corequisite: Mathematics [109] or 111 or the equivalent. An additional period may be required for AP students. MISS ROCK

210 (2) ORGANIC CHEMISTRY 1

A continuation of Chemistry 201 stressing the mechanisms of organic and bio-organic reactions. Prerequisite: 201. Not to be counted toward the major. MISS HICKS

301 (1) KINETICS AND MECHANISM I 1

Correlation of structure and reactivities primarily in organic systems. Elementary chemical kinetics will be introduced. Prerequisite: 201 and 202. MISS CRAWFORD, MISS ROCK

302 (2) KINETICS AND MECHANISM II 1

Correlation of structure and reactivities primarily in inorganic systems. Further development of chemical kinetics. Prerequisite: 301. MR. FRIEDMAN

311 (1) STRUCTURAL CHEMISTRY I 1

A theoretical and experimental study of molecular structure; spectroscopy, elementary quantum theory, symmetry properties. Prerequisite: 202 and Mathematics 207, or Extradepartmental 216; prerequisite or corequisite, a second unit of college physics. MRS. KOLODNY

312 (2) STRUCTURAL CHEMISTRY II 1

A theoretical and experimental study of the states of matter; crystal structure, theories of solids, liquids, gases, and surfaces. Prerequisite: 311. MISS ROCK

317 (2)\* CHEMICAL INSTRUMENTATION 1

The use of instruments in the study of chemical systems. Prerequisite: 202. Not offered in 1969-70. MR. LOEHLIN



318 (1)\* SELECTED TOPICS IN INORGANIC CHEMISTRY 1

Ordinarily a different topic each year. Prerequisite: 202. **Not offered in 1969-70.** MR. FRIEDMAN

319 (2)\* SELECTED TOPICS IN ORGANIC CHEMISTRY 1

Ordinarily a different topic each year. Topic for 1969-70: Molecular rearrangements, elimination reactions, free radical reactions. Prerequisite: 301. MISS CRAWFORD

320 (1)\* SELECTED TOPICS IN THEORETICAL CHEMISTRY 1

Ordinarily a different topic each year. Topic for 1969-70: Charge transfer complexes. Prerequisite: 202. MRS. KOLODNY

322 (1) BIOCHEMISTRY I 1

The study of informational macromolecules, the genetic code, protein synthesis, protein structure, and the mechanism of enzyme and coenzyme action. Prerequisite: 201 and 202, or permission of the instructor.

MISS HICKS





323 (2) BIOCHEMISTRY II 1

The study of biochemical energetics, metabolism, oxidative phosphorylation, and the mechanism of biological energy utilization. Prerequisite: 301 or permission of the instructor. MISS HICKS

345 (1) (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to students who have taken at least 5 units in chemistry.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

In addition to 8 units in chemistry, which must include 201, 202, 301, 302, 311, and 345, the major requires 2

units of college physics and Mathematics 207, or Extradepartmental 216. It is strongly recommended that 312, Physics 201 or 306, and at least 1 additional unit of mathematics be elected.

Students interested in biochemistry or molecular biology are referred to the Extradepartmental section where the program is described. They should consult with the director of the molecular biology program.

Students are advised to acquire a reading knowledge of German and of either French or Russian.

Premedical students are referred to the requirements given on p. 31.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists. Students wishing to meet the standard of an accredited chemist as defined by this society should consult the chairman of the Department of Chemistry.

## Placement and Exemption Examinations

Students entering with scores of 4 or 5 on the Advanced Placement Examination of the College Entrance Examination Board are eligible for 201. Other students who have had Advanced Placement courses or two years of secondary school chemistry or other unusually good preparation should apply for an examination covering the work in Chemistry 106 and/or 107. Such students will be expected to submit laboratory notebooks or reports.

## ECONOMICS

PROFESSORS: Clemence (Chairman), Bell, Goldman

ASSISTANT PROFESSORS: Morrison, Crozier<sup>3</sup>, Crandall

INSTRUCTORS: Greenwood<sup>3</sup>, Fapohunda

100 (1) (2) SURVEY OF MODERN ECONOMICS I 1

An introduction to economic science: the systematic study of the ways people make a living. Analysis of economic problems and policies with special reference to the United States today. Organization and operation of business enterprise; labor and management; prosperity and depression; money and banking; the national income and its distribution. Open to all students. Weekly tutorials in (1) and (2) for freshmen. (See Economics 355.) Special section for students in 100 (1) who plan to elect 101 (2).

THE STAFF

101 (1) (2) SURVEY OF MODERN ECONOMICS II 1

Continuation of 100. Competition and monopoly; demand and supply; analysis of firms and industries; balance of payments; foreign aid and foreign trade; economic growth; comparison of the American economy with others. Prerequisite: 100. THE STAFF

201 (1) (2) MICRO-ECONOMIC ANALYSIS 1

Micro-economic theory; analysis of the individual household, firm, and industry. Prerequisite: 101.

(1) MR. CLEMENCE, (2) MR. FAPOHUNDA

202 (1) (2) MACRO-ECONOMIC ANALYSIS 1

Macro-economic theory; aggregate analysis of income, output, and employment. Prerequisite: 101.

MRS. CRANDALL

203 (1)\* ECONOMIC HISTORY 1

Development of modern economic society the emergence of capitalism, the market system, and organized economic activity. Open to students who have taken or are taking 101. **Not offered in 1969–70.** MR. MORRISON

204 (1)\* AMERICAN ECONOMIC HISTORY 1

The development of the American economy from its agrarian beginnings to its contemporary complex industrial structure. Prerequisite: same as for 203. MR. MORRISON

205 (1) (2) THE CORPORATION 1

The development of the modern corporation and its place in the economy. Corporation organization and financial management. Financial markets; the technical and fundamental aspects of the stock market. Government regulation of corporations and markets. Prerequisite: 101.

MR. GOLDMAN

208 (2)\* PROBLEMS IN ECONOMICS AND PUBLIC POLICY 1

Monopoly, competition, and government policy toward

business. Analysis of selected cases in antitrust and labor economics. Problems of cartels and mergers. Issues in governmental regulation of utilities and other industries. Prerequisite: same as for 203. **Not offered in 1969–70.**

MRS. CRANDALL

209 (1) THE INTERNATIONAL ECONOMY 1

Institutions and problems of trade, development, and international economic organization. Prerequisite: 101. **Not offered in 1969–70.**

210 (1) MONEY AND BANKING 1

The structure and operation of the monetary system. Commercial banking and other financial institutions. The Federal Reserve System. Monetary theory and policy. Prerequisite: same as for 203.

MRS. CROZIER

211 (1) (2) ELEMENTARY STATISTICS 1

A non-mathematical approach to statistical techniques and their applications in economic analysis. Problems and exercises for machine calculations. Prerequisite: same as for 203. (1) MR. FAPOHUNDA (2) MR. MORRISON

212 (2)\* ECONOMICS OF ACCOUNTING 1

Economic problems of analysing accounting data: the meaning and impact of depreciation policy, asset valuation, the determination of income, cost, and revenue in the real world. How economists use accounting data in financial analysis and aggregate systems. Not equivalent to the business administration approach to accounting. Prerequisite: 101.

MRS. BELL

301 (1) COMPARATIVE ECONOMIC SYSTEMS 1

The economics of capitalism, socialism, fascism, and communism. Prerequisite: 201 or 202.

MR. GOLDMAN

302 (2) ECONOMIC DEVELOPMENT 1

The problems and possibilities of the less developed countries. Prerequisite: 201 or 202. MR. GOLDMAN

305 (1) INDUSTRIAL ORGANIZATION 1

Analysis of the structure, conduct, and performance of particular industries in the economy. Prerequisite: 201.  
MRS. CRANDALL

307 (1) CONSUMPTION AND MARKETING 1

Analysis of the theory of consumer choice and of market models applied to patterns of income, spending, and saving. Prerequisite: 201, 202 and 211. MRS. BELL

310 (2) PUBLIC FINANCE 1

Principles, practices, and economic effects of government expenditure, revenue, debt, and taxation. Special emphasis on current issues of fiscal policy and reform at federal, state, and local levels of government. Prerequisite: 202. MR. MORRISON

314 (1) INTERNATIONAL ECONOMICS 1

Theory of international trade. Methods of adjustment to disequilibrium in balance of payments. The impact of international movements of commodities and capital on economic activity in the past and since World War II. Current problems: International liquidity, economic integration, the United States balance of payments. Prerequisite: 201 and 202. MISS GREENWOOD

315 (2) HISTORY OF ECONOMIC THOUGHT 1

The development of economic thought from ancient to modern times. A brief survey of early economic ideas followed by a more detailed examination of the history of economics since 1776. The systems of the leading economists in the light of their own times and of the present day. Prerequisite: 201. MR. CLEMENCE

317 (2) SEMINAR. QUANTITATIVE ECONOMIC ANALYSIS 1

The combining of elementary mathematics and statistics with economic theory to explain and predict the behavior of the economy in its parts and as a whole. Prerequisite: 201 or 202, and 211 or Mathematics 203. MRS. CROZIER

320 (2) RESEARCH SEMINAR 1

Independent student investigations and reports using primary sources and developing original analyses. Topic for 1969–70: The economics of “The Ghetto.” Open to all students who have taken two Grade II courses in economics, and to seniors by permission of the instructor.

MRS. BELL

321 (1) SEMINAR. BUSINESS CYCLES AND FORECASTING 1

Nature and causes of economic fluctuations. Forecasting techniques. Public policies. Open to senior majors and to other students by permission of the instructor.

MR. CLEMENCE

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

MR. GOLDMAN

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to juniors and seniors who have taken 201 and 202.

THE STAFF

355 (1-2) TUTORIAL AND SEMINAR 2

A survey of economic theory and policy: seminar reports on research and independent study; tutorials for 100 conducted by each student in both semesters. 345 required in the second semester. Open upon department recommendation to senior majors.

MRS. BELL

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

THE STAFF

### Directions for Election

A student who plans to take any course after 101 should consult either her instructor or the department chairman.

Courses 201 and 202 are required for the major and



should be taken immediately after 101. Economics 211, or Mathematics 203, is also required. Economics 203 and 204 are strongly recommended.

Students planning to enter graduate school are strongly urged to take mathematics as a related subject. Such students should consult the chairman as soon as possible.

200 (1) (2) PHILOSOPHY OF EDUCATION 1

Selected philosophies of education, their relevance to twelve or more years of schooling, and their influence on decisions concerning socio-ethical values and responsibilities. Open to sophomores, juniors, and seniors.

MRS. BRADLEY

201 (2)\* HISTORY OF EDUCATIONAL IDEAS 1

Study of the interrelationship between educational ideas and their historical setting, their influence on the educational process, and their contribution to the general development of culture. Prerequisite: 200.

MR. SIPPLE

202 (1)\* THE ELEMENTARY SCHOOL 1

The organization of the elementary school, its curriculum, the teacher's work, and current educational policies. Emphasis placed on the development and characteristics of elementary school children. Observation in schools required. Prerequisite: 200. **Not offered in 1969–70.**

206 (2) SOCIOLOGY OF EDUCATION 1

Problems of remedial learning, curricular innovation, and social adjustment in suburban and regional secondary schools. Prerequisite: 200.

MR. SIPPLE

300 (1) THE SECONDARY SCHOOL 1

Aims, organization, and administration of United States secondary schools in relation to their social, political, and economic environments. Case study method employed to reveal today's problems and potentials in their historical perspective. Prerequisite: 200.

MRS. BRADLEY

## EDUCATION

ASSOCIATE PROFESSOR: Bradley  
(Chairman)

ASSISTANT PROFESSOR: Sipple  
LECTURER: Regan<sup>3</sup>

301 (2) COMPARATIVE STUDIES OF EDUCATIONAL SYSTEMS 1

A study of the impact of old and new educational policies, plans, and ideals as seen in various sections of the United States and in selected foreign countries. Open by permission of the instructor. MRS. BRADLEY

302 (1) METHODS OF TEACHING 1

Study of teaching objectives and classroom procedures. Review of learning theories. Class divided into groups for six weeks of intensive work in the methods and materials of a specific subject matter; for example, English, foreign language, social science, science. Observation in school required. Prerequisite: 300 or permission of the instructor. MR. SIPPLE

303 (1) CURRICULUM AND SUPERVISED TEACHING 1

Study of curriculum and sequence of courses offered in secondary school. Methods and supervised teaching in student's major teaching field. Prerequisite or corequisite: 302. MR. SIPPLE

### Directions for Election

The department offerings are intended to acquaint students systematically with the history of compulsory free education as developed in the United States and now practiced in many countries under different forms, the philosophies which underlie these efforts, the problems to be solved, and, as an adjunct, to aid students who wish to enter teaching immediately after graduation.

Students who intend to teach should (in their freshman year if possible) consult the department concerning the various city and state requirements for the certificate to teach and the appropriate undergraduate preparation for fifth year and paid intern programs which combine professional study with further study in teaching fields and lead to advanced (M.A.T., Ed.D., Ph.D.) degrees.

For those interested in secondary school teaching upon graduation, the following program is recommended:

Freshman year: Psychology 101  
Sophomore year: Education 200, and Psychology 212  
or 217 or 219

Junior year : Education 300, and 201 or 301  
Senior year : Education 302 and 303.

Preparation to teach in elementary schools should include :

Freshman year : Psychology 101  
Sophomore year : Education 200, and Psychology 207  
Junior year : Education 202, and Psychology 212  
or 217  
Senior year : Education 201 and 301

A summer program, preferably preceding the senior year, at another accredited institution should include Methods and Supervised Teaching for the Elementary School. Many such programs are available throughout the country.

## INTRODUCTORY LITERATURE

103 (1) (2) POEMS IN PERSPECTIVE 1

Certain modern poems studied in connection with poems of earlier periods to demonstrate critical and historical relationships. Not open to students who have taken [106].

THE STAFF

108 (2) INTERPRETATIONS OF MAN IN WESTERN LITERATURE 1

For description and prerequisite see Extradepartmental 108, p 168.

150 (1) (2) COLLOQUIUM 1

For description of topics and directions for applying, see pp. 176–177. Open by permission to a limited number of freshman and sophomore applicants.

## WORKSHOPS IN WRITING

Courses 109, 200, 201, and 202 are planned as workshops in writing with informal group meetings and frequent

## ENGLISH

PROFESSORS: Michael<sup>a</sup>, Prettyman, Corsa, Lever, Quinn (Acting Chairman), Layman, Adams, Ferry<sup>a</sup>, Garis, Spacks<sup>a</sup>, Berkman<sup>a</sup>

ASSOCIATE PROFESSOR: Craig

ASSISTANT PROFESSORS: Gold, Aswell, Kurtz, Phillips<sup>a</sup>, Pinsky, Linfield

INSTRUCTORS: Gertmenian, Breasted

LECTURER: Walton

VISITING PROFESSOR: Dorius

individual conferences. While the emphasis is on constant practice in writing, each course requires a critical reading of pertinent examples of the type of writing being studied. Courses 301 and 302 continue the same plan at an advanced level.

109 (1) (2) EXPERIMENTS IN WRITING 1

A writing workshop designed to give experience in organizing complex meanings in essays including various ways of arguing, describing, persuading, defining. Not open to students who have taken [100]. THE STAFF

200 (1) (2) SHORT NARRATIVE 1

Sketches and the short story. For interested students, experience in the writing of one-act plays. Prerequisite: [100] or 109 or [110]. Not open to students who are taking another writing course. (1) (2) MR. KURTZ  
(2) MISS LEVER

201 (1) THE CRITICAL ESSAY 1

Training in the organization and presentation of literary analyses and judgments. Reading of some of the best contemporary criticism. Open to students who have taken or are taking 103 or [106]. MR. LINFIELD

202 (1) POETRY 1

The writing of short lyrics and the study of the art and craft of poetry. Open to juniors and seniors, and by permission of the instructor to sophomores. MR. PINSKY

**INTERMEDIATE LITERATURE**

210 (1) (2) MODERN POETRY 1

English and American poetry and poets, recent and contemporary. Open to students who have taken 103 or [106], and by permission to sophomores who have taken Extra-departmental 108, and to juniors and seniors without prerequisite. (1) (2) MISS CRAIG

MR. PINSKY  
(2) MRS. GERTMENIAN

212 (1) (2) MODERN DRAMA 1

The study of English, American, and European drama from Ibsen to the present day. Prerequisite : same as for 210.

(1) MR. GARIS  
(1) (2) MR. DORIUS  
(2) MISS BERKMAN

215 (1) (2) INTRODUCTION TO SHAKESPEARE 1

The study of a number of representative plays with emphasis on their dramatic and poetic aspects. Open to juniors and seniors only. Not open to majors.

(1) MISS CRAIG (2) MR. DORIUS

217 (1) (2) MILTON 1

A critical study of Milton as a master of lyric, epic, and dramatic poetry and as a writer of notable prose. Prerequisite : same as for 210.

(1) MISS BREASTED  
(2) MISS LEVER

218 (1) THE HISTORY OF THE ENGLISH NOVEL I 1

The beginnings of the English novel in the 18th century: Defoe through Jane Austen. Prerequisite : same as for 210.

MISS CORSA, MR. KURTZ

219 (2) THE HISTORY OF THE ENGLISH NOVEL II 1

The 19th century English novel: the Brontës through Conrad. Prerequisite : same as for 210.

MISS CORSA, MR. KURTZ

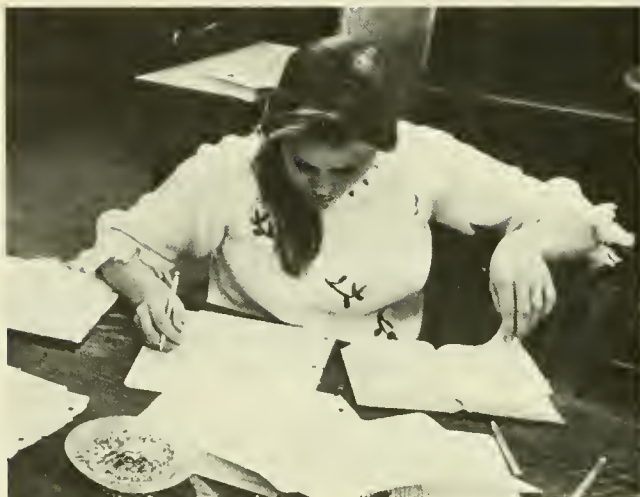
220 (1) (2) CHAUCER 1

A study of Chaucer's poetry tracing the development of his art, with some attention to the relation of his work to the social and literary background of his time. Prerequisite : same as for 210.

(1) (2) MISS LEVER  
(2) MISS CORSA

223 (1) AMERICAN LITERATURE I 1

The beginnings of American literature and the social



conditions out of which it grew, followed by a consideration of American writers through Melville. Emphasis upon major figures. Prerequisite: same as for 210.

MR. QUINN, MR. ASWELL

224 (2) AMERICAN LITERATURE II 1

American writers from Whitman to the present time. Emphasis upon major figures. Prerequisite: same as for 210.

MR. QUINN, MR. GOLD, MR. ASWELL,  
MR. LINFIELD

226 (1) (2) STUDIES IN FICTION 1

The study of the art of fiction in the writings of major European, English, and American novelists of the 19th and 20th centuries. Prerequisite: same as for 210. Not open to those who have taken 219.

(1) MISS LEVER, MR. LAYMAN  
(1) (2) MR. GARIS, MR. LINFIELD  
(2) MISS BREASTED

230 (1) ROMANTIC POETS I 1

Intensive study of poems and critical writings of Wordsworth, Coleridge, and Byron. Prerequisite: same as for 210.

MR. GOLD



231 (2) ROMANTIC POETS II 1

Intensive study of poems and critical writings of Blake, Shelley, and Keats. Prerequisite: same as for 210.

MISS PRETTYMAN

232 (1) (2)\* ENGLISH COMEDY IN VARIOUS GENRES 1

The development, variety, and continuity of English comic writing, with special attention to such authors as Jonson, Shakespeare, Byron, Dickens, and Shaw. Prerequisite: same as for 210.

(1) MISS CORSA

(1) (2) MRS. GERTMENIAN

233 (1) (2)\* ENGLISH TRAGIC AND HEROIC DRAMA 1

Continuity and change in English drama from the 16th century to the Restoration. Emphasis on such authors as Marlowe, Shakespeare, Ford, Webster, and Dryden. Prerequisite: same as for 210. **Not offered in 1969–70.**

234 (1) (2)\* THE POET-CRITIC 1

Such authors as Sidney, Dryden, Johnson, Coleridge, Arnold, and Eliot, studied as makers of English criticism and as examples of interaction between the practice and theory of poetry. Prerequisite: same as for 210. **Not offered in 1969–70.**

235 (2)\* FROM NEO-CLASSIC TO ROMANTIC 1

The shift of sensibility from the 18th to the 19th century studied with emphasis on such authors as Johnson, Burke, and Wordsworth. Prerequisite: same as for 210.

MR. GOLD

### ADVANCED WORKSHOPS IN WRITING

Courses 301 and 302 are planned as workshops in writing, continuing the training of course 200.

301 (2)\* THE SHORT STORY 1

Techniques of short-story writing together with practice in critical evaluation of student work. Intensive reading of

selected stories. Open to juniors and seniors who have taken one Grade II workshop, and by permission of the instructor to other qualified students. **Not offered in 1969–70.**

MISS BERKMAN

302 (2)\* FICTION 1

Intensive practice in the writing of prose fiction, the short story or the novella according to the interest of the individual student. Prerequisite: same as for 301.

MISS BERKMAN

### ADVANCED LITERATURE

307 (2) CRITICISM 1

A survey of some fundamental critical theories from Aristotle to the present; their relation in historical context to continuing problems of interpretation and judgment; their application to specific literary works. Special attention to modern trends in criticism. Open to juniors and seniors who have taken or are taking two Grade II literature courses in the department, and by permission of the instructor to other qualified students.

MISS CRAIG

308 (2) THE MIDDLE AGES AND  
RENAISSANCE IN ENGLAND 1

Permanence and change in some major literary forms from 1350 to 1600. Special attention given the religious and intellectual ferment of the 16th century. Reading, both intensive and extensive, to include (partly in modern versions) *Gawain and the Green Knight*, *Piers Plowman*, More, Sidney, Marlowe, and Spenser. Prerequisite: same as for 307. **Not offered in 1969–70.**

MISS LEVER

309 (1-2) SHAKESPEARE 2

Shakespeare as dramatist and poet seen against the background of his age and its theatre. Intensive study of sixteen plays and the reading of others. Open to juniors and seniors who have taken 2 units of Grade II literature courses in the department. Not open to students who have taken 215.

MISS PRETTYMAN, MR. LAYMAN,  
MR. DORIUS

310 (2) THE AGE OF SATIRE 1

Dryden, Congreve, Pope, and Swift considered as masters in the satiric tradition. Prerequisite: same as for 307. **Not offered in 1969-70.** MRS. SPACKS

312 (1) THE ENGLISH LANGUAGE 1

Contemporary theories of meaning and grammar studied in the context of the history of the English language. Open to juniors and seniors who have taken or are taking a Grade II course in the department or in a foreign language or in European history or in philosophy, or permission of the instructor. MISS LEVER

314 (1) THE VICTORIAN MIND 1

Patterns of thought and expression in the prose of Carlyle, Newman, Macaulay, Mill, and Arnold. Prerequisite: same as for 307. Open to non-majors by permission of the instructor. **Not offered in 1969-70.** MR. LINFIELD



315 (2) VICTORIAN POETRY 1

The dominant themes and procedures of the period between Landor and Yeats with emphasis on such poets as Tennyson, Arnold, Hopkins, and Hardy. Prerequisite: 314 or 230 or 231 or 235, and an additional 1 unit Grade II literature course. Open to other students by permission of the instructor. MR. PINSKY

316 (2) SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON 1

The stress and conflict of an age of transition presented through the innovations of Donne and Jonson in poetry, and of Bacon, Browne, Burton, and Taylor in prose. Brief study of Cavalier and religious poetry. Prerequisite: same as for 307. MR. GARIS

317 (1) AMERICAN LITERATURE III 1

Topic for 1969-70: Poe, Hawthorne, Melville. Prerequisite: same as for 307. MR. QUINN

318 (1) (2) ADVANCED STUDIES IN THE NOVEL 1

Critical and aesthetic problems in the field of fiction as seen in the work of several major English and American novelists selected for the most part from the 20th century. Prerequisite: same as for 307. (1) MR. ASWELL  
(2) MR. GARIS

319 (1) ADVANCED STUDIES IN MODERN POETRY 1

A few important poets of the late 19th and 20th centuries studied intensively with reference to poets who have influenced them. Prerequisite: same as for 307. MISS CRAIG

320 (2) LITERARY CROSSCURRENTS 1

Studies in the varied responses of contemporaneous literary figures to the conflicts and values of their times. Topic for 1969-70: A "Genteel Tradition" in American philosophy, fiction and historiography: William James, Henry James, Henry Adams. Prerequisite: same as for 307. MR. GOLD

321 (1) SEMINAR 1

Topic for 1969–70: Studies in the contemporary novel. Open by permission of the instructor to juniors and seniors.  
MR. KURTZ

322 (2) SEMINAR 1

Topic for 1969–70: Virginia Woolf and her circle. Open by permission of the instructor to juniors and seniors.  
MISS BERKMAN

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.  
MR. LAYMAN, MISS BREASTED

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1

Open by permission to juniors and seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

A sequence of practice courses is provided for students interested in writing. In general, enrollment in writing workshops is limited to fifteen.

A student majoring in English is required to take 103. Under special circumstances, a student who has taken [110] or 150 may offer it in fulfillment of the 103 requirement. (A student who has taken [106] may not take 103.) All majors must also take either 217 or 220, 309, and 2 additional units in literature before the modern period.

Students of at least B standing in the work of the department will have first consideration in applying for admission to seminars and 350 work.

Knowledge of English and American history, of the course of European thought, theatre studies, and of at least one foreign literature at an advanced level is of great value to the student of English. See for example, History 213, 217, 310; Philosophy 203, 204, 207, 209; Grade II and Grade III courses in foreign literatures; Extradepartmental 101, 104, 108, 201, 202, and courses in Theatre Studies.

# FRENCH

PROFESSORS: Lafeuille, Galand (Chairman),  
François

ASSOCIATE PROFESSOR: McCulloch

ASSISTANT PROFESSORS: Blake, Malaquais,  
Stambolian, Louffi, Witt

INSTRUCTORS: Shenton, Mistacco, Zynszajn

LECTURER: McPherrin

All courses are conducted in French. Oral expression and practice in writing are stressed.

The department reserves the right to place a new student in the course for which she seems best prepared regardless of the number of units she has offered for admission.

Attention is called to the opportunity for residence in the French Center, Tower Court.

Qualified students may be recommended to spend the junior year in France. See p. 29.

## 100 (1-2) ELEMENTARY FRENCH 2

Intensive oral work, grammar, and composition. Reading of selected texts as an introduction to French life. Open to students who do not present French for admission. Three periods. THE STAFF

## 102 (1-2) INTERMEDIATE FRENCH 2

Short stories, novels, and plays illustrating some aspects of French culture. Stress on grammar, vocabulary, and pronunciation. Oral and written work. Prerequisite: 100 or 2 admission units in French. Not open to students who have taken [101]. Three periods. THE STAFF

## 104 (1-2) CONTEMPORARY LIFE AND THOUGHT 2

Analysis of selected modern texts: fiction, drama, poetry, essays, and articles. Grammar review. Study of vocabulary and pronunciation. Frequent written work and oral practice. Prerequisite: [101] or 102 or 3 admission units in French. Not open to students who have taken [103]. Three periods. THE STAFF

## 150 (1) (2) COLLOQUIUM 1

For description of topics and directions for applying see p. 178. Open by permission to a limited number of freshman and sophomore applicants.

## 201 (1-2) FRENCH LITERATURE THROUGH THE CENTURIES 2

First semester: Middle Ages through the 17th century. Second semester: the 18th century to the present. Class discussion of selected masterpieces, short papers, outside reading. Prerequisite: [103] or 104 or 4 admission units in



French; by permission of the instructor, 102. Not open to students who have taken [200]. THE STAFF

203 (1-2) FRENCH MASTERPIECES 2

Introduction to literary analysis. Intensive study of selected works representing various literary techniques and genres: poetry, fiction, drama. Class discussion, oral reports, short papers. Prerequisite: same as for 201. Not open to students who have taken [200]. THE STAFF

205 (1) (2) ATTITUDES AND VALUES IN FRENCH CULTURE TODAY 1

Class discussion of representative texts, periodicals, and newspapers. Oral reports, short papers, outside reading. Prerequisite: 104 or 4 admission units in French; by permission of the instructor, 102. MRS. LOUTFI

212 (1) MEDIEVAL FRENCH LITERATURE 1

French literature from the *Chanson de Roland* through Villon. Medieval texts read in modern French. Prerequisite: 150 or 201 or 203 or 205. MISS McCULLOCH



213 (1) (2) FRENCH DRAMA IN THE TWENTIETH CENTURY 1

Trends in contemporary drama: symbolism, the use of myths, the influence of existentialism, the theatre of the absurd. Prerequisite: same as for 212. THE STAFF

214 (1) (2) THE FRENCH NOVEL IN THE NINETEENTH CENTURY 1

Emphasis on works by Balzac, Stendhal, Flaubert. Both intensive and extensive reading. Prerequisite: same as for 212. (1) MRS. LOUTFI (2) MR. STAMBOLIAN

215 (1) (2) BAUDELAIRE AND SYMBOLIST POETS 1

The nature of the poetic experience studied in the post-romantic poetry of the 19th century. Prerequisite: same as for 212. MR. GALAND

222 (1) (2) STUDIES IN LANGUAGE I 1

Intensive grammar review, practice in free composition. Prerequisite: 104; by permission of the instructor, 102. Not open to freshmen in their first semester.

MISS BLAKE

224 (2) FRENCH SPEECH 1

Analysis of French pronunciation. Study of accent and intonation. Exercises in diction based on prose and poetry. Use of the language laboratory. Prerequisite: same as for 222. Recommended to students majoring in French.

MISS BLAKE

300 (1) SIXTEENTH CENTURY LITERATURE 1

Studies in the Renaissance. Authors for 1969–70 will include Rabelais, Ronsard, and Montaigne. Prerequisite: 201 or 203. MISS LAFEUILLE

301 (1) SEVENTEENTH CENTURY LITERATURE I 1

Baroque and Précieux poets. *L'Astrée*. The birth of the classical theatre: Corneille. Descartes and Pascal. Prerequisite: same as for 300. MR. FRANÇOIS

302 (2) SEVENTEENTH CENTURY LITERATURE II 1

The classical theatre: Molière, Racine, La Fayette, La Fontaine, La Bruyère. Prerequisite: same as for 300.

MR. FRANÇOIS

303. (1) MASTERPIECES OF THE EIGHTEENTH CENTURY 1

The pursuit of happiness in the century of Enlightenment. Among the authors studied: Prevost, Marivaux, Voltaire, Rousseau, Laclos, Beaumarchais. Prerequisite: same as for 300. **Not offered in 1969–70.**

304 (2) PRE-ROMANTICISM 1

Awakening of sensibility in the 18th century: Diderot, Rousseau; Mme de Staël, Benjamin Constant, Chateaubriand. Prerequisite: same as for 300.

MRS. MALAQUAIS

305 (1) ROMANTICISM 1

The romantic generation: Lamartine, Vigny, Hugo, Musset; Stendhal, Balzac. Prerequisite: same as for 300.

MISS LAFEUILLE,  
MRS. MALAQUAIS

306 (1) FRENCH POETRY IN THE TWENTIETH CENTURY 1

From symbolism to surrealism. Among the authors studied: Claudel, Valéry, Apollinaire, the Surrealists, Michaux, Saint-John Perse, Char. Open to juniors and seniors who have taken 2 units of French literature at the Grade III level.

MR. GALAND

307 (2) THE FRENCH NOVEL IN THE TWENTIETH CENTURY 1

Study of the main trends in contemporary literature. Among the authors studied: Gide, Proust, Mauriac, Malraux, Sartre, Camus, Robbe-Grillet. Open to juniors and seniors who have taken 2 units of French literature at the Grade III level.

MR. GALAND

308 (1) STUDIES IN LANGUAGE IIa 1

Translation into French from modern novels and essays. Study of French style through analysis of selected texts. Occasional free composition. Prerequisite: 2 units at the Grade III level or 222. MRS. MALAQUAIS

309 (2) STUDIES IN LANGUAGE IIb 1

Similar to 308, with different subjects and texts. Prerequisite: same as for 308. MRS. MALAQUAIS

312 (1) MEDIEVAL FRENCH LITERATURE 1

See 212. Joint class meetings for 212 and 312. Supplementary assignments and readings in Old French for students at Grade III level. Open by permission of the instructor. MISS McCULLOCH

321 (1) SEMINAR. STUDY OF ONE AUTHOR 1

Topic for 1969–70: The literature of the absurd. Open by permission of the instructor to students who have taken 4 units of literature at the Grade III level. MR. FRANÇOIS

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. MISS LAFEUILLE

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Prerequisite: same as for 321.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Course 100 counts for the degree but does not count toward the major. Students who begin with 100 in college and who plan to major in French should consult the chairman of the department during the second semester of their

freshman year. A student may not count toward the major both 102 and 104. Course 104 may not be elected by students who have taken both 100 and 102.

Upperclassmen majoring in French (with the exception of those who carried 2 units of Grade II in the freshman year) should not elect more than 3 units of Grade II without permission of the department. Majors are required to take two of the following courses: 222, 308, 309. In some cases 224 may also be required.

Courses in other foreign language and literature departments, in art, history (especially 210 and 211), philosophy, English, Extradepartmental 101 and 330, and Religion and Biblical Studies 104 and 105 are recommended for majors.

Students who plan to do graduate work in French are advised to begin or to pursue the study of a second modern language and the study of Latin; those who plan to do graduate work in comparative literature are advised to continue the study of one or more other modern literatures and to acquire proficiency in at least one classical language.

## 102 (1) INTRODUCTION TO GEOLOGY 1

Fundamental facts and principles of earth behavior and history with special reference to Massachusetts and New England. Current problems in oceanography, continental drift, and lunar geology. Field trips and laboratory include study of minerals, rocks, fossils, topographic and geologic maps.

MRS. KAMILLI

## 200 (2) PRINCIPLES OF STRATIGRAPHY AND PALEONTOLOGY 1

An introduction to the principles of stratigraphy and their application in interpreting the geologic history of North America. Reconstruction of evolution of life from fossil records, paleogeography, and ancient sedimentary and tectonic environments. Field trips will develop the geologic history of the local region. Prerequisite: 102.

MRS. KAMILLI

## 202 (2) MINERALOGY 1

Introduction to crystallography; systematic study of the rock-forming minerals. Emphasis on geochemical relation-

# GEOLOGY

ASSISTANT PROFESSOR: Kamilli (Chairman)  
LABORATORY INSTRUCTOR: Mrs. Case

ships including bonding, solid solution series, and phase diagrams. Laboratory. Prerequisite: 2 units of physical science, or permission of the instructor. MRS. KAMILLI

305 (1)\* STRUCTURAL GEOLOGY 1

Primary and secondary structures. Geophysical methods of structural determination. Prerequisite: 200 and 2 units of physics. **Not offered in 1969–70.** MRS. KAMILLI

307 (1)\* OPTICAL MINERALOGY 1

Optical crystallography. Application to silicates. Systematic mineralogy and phase relations of the rock-forming silicates. Open to students who have taken 202 and Chemistry 107. MRS. KAMILLI

309 (2) PETROLOGY 1

Study of the origin and occurrence of igneous and metamorphic rocks with particular reference to modern geochemical investigations. Examination and description of hand specimens and thin sections under the petrographic microscope. Open by permission of the instructor.

MRS. KAMILLI

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. MRS. KAMILLI

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to juniors and seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

The following courses form the basis of the major: 102, 200, 202, 305, 307, 309, 345, and 2 units each of three of



the following: biology, chemistry, physics, and mathematics. Students planning to do graduate work are urged to elect advanced courses (Grade II or Grade III) in chemistry, physics, mathematics, or biology, either in addition to or as a substitute for the indicated courses in geology. Courses in chemical thermodynamics, modern physics, statistics, and genetics are especially recommended.

The department recommends summer field courses given by other colleges (dealing chiefly with the Rocky Mountain region) to interested students who have completed 2 or more units of geology at Wellesley. Credit may be given for such courses provided the student's plans are approved in advance by the department.

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German.

The department reserves the right to place a new student in the course for which the student seems best prepared regardless of the number of units the student has offered for admission.

By doing special reading during the summer and upon approval of the chairman, capable students in 100 have the opportunity to omit 102 and proceed with 202.

Qualified students may be recommended to spend the junior year in Germany. See p. 29.

100 (1-2) ELEMENTARY GERMAN 2

Study of grammar and vocabulary; frequent written exercises; reading of short stories; special emphasis on oral expression. Open to students who do not present German for admission. Three periods. THE STAFF

102 (1-2) INTERMEDIATE GERMAN 2

Intensive language study: emphasis on idiomatic usage and on syntax. Introduction to the critical study of literary texts, mainly 19th and 20th century. Prerequisite: 100 or 2 admission units in German. Three periods. THE STAFF

200 (1-2) IDEA AND FORM 2

The evolution of ideas and their reflection in German

## GERMAN

PROFESSORS: Goth<sup>a</sup>, Engel (Acting  
Chairman)

ASSISTANT PROFESSORS: Hausammann,  
Kimber, Heinze<sup>3</sup>

LECTURER Deutsch

literature, thought, and science. Passages and complete texts from the 18th century to the present: Goethe to Grass, Leibniz to Jaspers, L. Euler to M. Planck. The third period will be used for prose composition, semantics, stylistics, and history of the language in relation to the texts. Three periods. Prerequisite: 102 or 3 or more admission units in German, or, by permission of the instructor, 100. First semester may be taken independently.

MR. KIMBER, MISS HAUSAMMANN

202 (1-2) EIGHTEENTH CENTURY LITERATURE 2

The literary revival studied in the ideas and the imaginative literature of its major representatives before 1784, i.e., Gottsched, Bodmer, Brockes, Klopstock, Wieland, Winckelmann, Hamann, Lessing, Herder, young Goethe, young Schiller. The third period will be used for prose composition, analysis of style, and the study of conceptual language in relation to the texts. Three periods. Prerequisite: 102 or 3 or more admission units in German, or, by permission of the instructor, 100.

MRS. DEUTSCH, MR. KIMBER  
MISS ENGEL

204 (1) GOETHE I 1

Lyric, prose, and drama before Goethe's return from Italy. Prerequisite: [104] or 202 or 2 units of 200.

MISS ENGEL

205 (1)\* FROM ROMANTICISM TO REALISM 1

Romantic thought, discovery of the unconscious: Friederich, Schlegel, Brentano, Novalis, E. T. A. Hoffman, Eichendorff, and others. Prerequisite: same as for 204. **Not offered in 1969–70.**

MISS GOTH

206 (2)\* NINETEENTH CENTURY LITERATURE 1

Late Romanticism and Realism. Lyric and prose. Mörike, Heine, Stifter, Keller, C. F. Meyer, Fontane. Prerequisite: same as for 204. **Not offered in 1969–70.**

210 (1)\* GERMAN DRAMA 1

Theory and practice between the age of Gottsched and Brecht. The theories of Gottsched, Schlegel, Lessing, Schiller, and Hebbel will be included as well as the drama

of Lenz, Kleist, Büchner, Grillparzer, Hebbel, Hauptman, and Kaiser. Prerequisite: same as for 204. MISS ENGEL

304 (2) GOETHE II 1

Goethe, the poet and the thinker, with emphasis on *Faust*, and his writings after 1788. Prerequisite: 204.

MISS ENGEL

305 (2)\* SCHILLER 1

Special emphasis on his lyric, prose, and drama. Open to students who have taken 1 unit of Grade II work after [104] or 202 or after 2 units of 200.

MISS ENGEL

308 (1) LITERATURE OF THE LATE NINETEENTH AND THE EARLY TWENTIETH CENTURIES 1

Intellectual and aesthetic trends of the period. Varied texts: dramas, lyric poetry, novels, essays, letters of repre-



sentative authors. Prerequisite: 205 or 206 or 1 unit of Grade III work. MR. KIMBER

312 (2) LITERATURE OF THE TWENTIETH CENTURY 1

Aspects and tendencies of 20th century literature from the First World War to the present time. Prerequisite: 308. MR. KIMBER

321 (2) SEMINAR. THE WRITER AND HIS AGE 1

Intensive study of the works and lives of one or two writers in relation to philosophical, historical, and literary trends of their periods. Topic for 1969–70: Hermann Hesse. Prerequisite: 2 units of Grade III. MISS ENGEL

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. This requirement is met by electing 321. A special examination for seniors will integrate the work of the semester with material from other courses.

MISS ENGEL

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Course 100 is counted for the degree but not for the major.

Students who begin with 100 and who wish to major in German should consult the department in order to obtain permission to omit 102 and take 202.

Students intending to major in the department are requested to take 202, 204, 304 and at least 2 further units of Grade III work.

Courses 205, 210, 305 and one seminar are strongly recommended for the major.

Courses in art, history (especially History 314), philos-

ophy, English, literature courses in other foreign language departments, and Extradepartmental 330 are recommended.

## Greek

### 100 (1-2) BEGINNING GREEK 2

Study of the language. Reading from classical authors and from the New Testament. Three periods. Open to students who do not present Greek for admission.

THE STAFF

### 101 (1) HELLENIC HERITAGE 1

For description and prerequisite, see Extradepartmental 101, p. 168.

### 104 (2) CLASSICAL MYTHOLOGY 1

For description and prerequisite, see Extradepartmental 104, p. 168.

### 201 (1) PLATO 1

*Apology*, *Crito*, and selections from the *Phaedo*. The character of Socrates and his position in the development of Greek thought. Three periods. Prerequisite: 100 or 2 admission units in Greek, or exemption examination.

MRS. LEFKOWITZ

### 205 (2) HOMER'S *ILIAD* 1

Study of selected books in Greek with emphasis on the oral style of early epic; reading of the rest of the poem in translation; the archaeological background of the period. Three periods. Prerequisite: 201. MISS McCARTHY

### 206 (2)\* GREEK PROSE COMPOSITION 1

A study of Greek prose style with reading and analysis of Greek texts; review of Attic Greek grammar; translation of English into Greek. Prerequisite: 205. **Not offered in 1969-70.**

## GREEK AND LATIN

PROFESSORS: McCarthy (Chairman),  
Vermeule

ASSOCIATE PROFESSORS: Lefkowitz,  
Geffcken<sup>a</sup>

ASSISTANT PROFESSOR: Tracy  
INSTRUCTOR: Dickison

207 (2)\* HOMER'S *ODYSSEY* 1

Study of selected books in Greek ; reading of the rest in translation with emphasis on the origins of the poem in history and myth. Prerequisite: 205. **Not offered in 1969–70.** MRS. VERMEULE

228 (1) HISTORY OF GREECE 1

For description and prerequisite, see History 228.

301 (1-2) GREEK DRAMA 2

Study in Greek of one play by each of the dramatic poets: Aeschylus, Sophocles, Euripides, Aristophanes; reading of other plays in translation. Prerequisite: 205.

(1) MRS. VERMEULE and MR. TRACY

(2) MISS McCARTHY

308 (1-2)\* THE GREEK VIEW OF MAN 2

A study of the changing opinion of man's importance as expressed in Greek literature from the archaic age to the Graeco-Roman period. Selected reading from prose and poetry. Open to students who have taken or are taking 301. (1) MISS McCARTHY (2) MRS. LEFKOWITZ

309 (1-2)\* THE DEVELOPMENT OF CONCEPTUAL LANGUAGE 2

Analysis of specific myths and images and of the change in means of expression of abstract ideas in Greek literature from Homer to Plato. Selected reading from prose and poetry. Prerequisite: same as for 308. **Not offered in 1969–70.** MRS. LEFKOWITZ

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. This requirement is met by electing 308 (2) or 309 (2). A special examination for seniors will integrate the work of the semester with material from other sources.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2



370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

## Latin

100 (1) BEGINNING LATIN 1

Fundamentals of the Latin language. Readings from classical and medieval texts. Three periods. Open to students who do not present Latin for admission, or permission of the instructor. MISS DICKISON

101 (2) INTERMEDIATE LATIN 1

Reading from classical Latin authors. Intensive review of grammar and syntax. Three periods. Prerequisite: 2 admission units in Latin or 100 or permission of the instructor. MR. TRACY



103 (1) INTRODUCTION TO VERGIL'S 1  
*AENEID*

Study of the poem with selections from Books I-VI in Latin. Three periods. Prerequisite: 101 or 3 admission units in Latin not including Vergil, or exemption examination.  
MR. TRACY

104 (2) CLASSICAL MYTHOLOGY 1

For description and prerequisite, see Extradepartmental 104.

202 (1) ROMAN HUMOR: COMIC TECHNIQUE 1  
IN DRAMA AND ORATORY

Reading in Latin of a play of Plautus and an oratio of Cicero; other reading in translation. Prerequisite: 4 admission units in Latin or 3 including Vergil or 103.  
MRS. LEFKOWITZ

203 (2) CATULLUS AND HORACE 1

Selections from Catullus' poems and Horace's *Odes*. Prerequisite: same as for 202.  
MRS. LEFKOWITZ

206 (2)\* LATIN PROSE COMPOSITION 1

A study of the development of Latin style with reading and analysis of selected texts; practice in writing Latin prose. Prerequisite: [201] or 202 or 203.  
MISS DICKISON

221 (1) THE DEVELOPMENT OF NEW 1  
POETIC FORMS I

Topic for 1969–70 is Lucretius: his re-creation of Epicurean Philosophy in poetic form; his use of early Roman and Hellenistic Greek sources. Prerequisite: [201] or 202 or 203, or AP Latin score of 5, or permission of the instructor.  
MRS. LEFKOWITZ

222 (2) THE DEVELOPMENT OF NEW 1  
POETIC FORMS II

the Latin hexameter. Reading of Catullus 64 and selected satires of Horace. Prerequisite: same as for 221.

MR. TRACY

229 (2) HISTORY OF ROME 1

For description and prerequisite, see History 229.

301 (1) VERGIL'S *ECLOGUES* AND *GEORGICS* 1

The poet's re-creation of the Greek pastoral and his use of didactic and descriptive poetry as a means of examining man's relationship to nature and as political and social commentary. Prerequisite: [211] or [214] or 221 or 222.

MR. TRACY

302 (2) VERGIL'S *AENEID* 1

The artistic achievement of Vergil in the light of earlier literature, especially Homer and Ennius; Vergil's view of



man and the destiny of Rome. Prerequisite: same as for 301.  
MR. TRACY

308 (1)\* THE STRUGGLE FOR POWER IN THE LATE REPUBLIC 1

The events, life, and thought of the late Republic in the letters of Cicero and in the historical writings of Caesar and Sallust. Prerequisite: same as for 301. MISS DICKISON

309 (2)\* HISTORICAL TRADITION, MORALITY AND IMMORALITY 1

Livy's portrayal of early Roman heroes as models of behavior and Ovid's and Propertius' rejection of this moral point of view. Prerequisite: same as for 301.  
MISS DICKISON

316 (1)\* THE EFFECTS OF POWER AND AUTHORITY IN THE EMPIRE 1

The literature of disillusion both historical and satiric with emphasis on Tacitus and Juvenal. Prerequisite: same as for 301. Not offered in 1969-70. MR. TRACY

317 (2)\* IMPERIAL ROME: THE NOVEL 1

The development of the ancient novel with emphasis on satirical techniques in Petronius and on religious and mythological themes in Apuleius. Prerequisite: same as for 301. Not offered in 1969-70.

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. This requirement is met by electing 309 or 317. A special examination for seniors will integrate the work of the semester with material from other courses.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to seniors by permission.

370 (1-2) HONORS RESEARCH 2

## Directions for Election

To fulfill the distribution requirement in Group A, students may elect any courses in Greek or Latin except 228 and 229.

The following may not be counted toward a major in Greek or Latin: Greek 101; Greek/Latin 104, 228, 229.

All students majoring in Greek must complete 301, 308, or 309. The second semester of 308 or 309 will fulfill the requirement for 345. Students planning graduate work are advised to elect 206 or 207.

All students majoring in Latin are required to complete 301, 302, and at least 2 units of the following: 308, 309, 316, 317. 309 and 317 will fulfill the requirement for 345. Students planning to teach are advised to elect 206.

Students majoring in Greek or Latin are advised to elect some work in the other language. It should be noted that work in both Greek and Latin is essential for graduate students in the classics.

Courses in ancient history, ancient art, ancient philosophy, and classical mythology are recommended as valuable related work. Students interested in a major in classical archaeology are referred to the Extradepartmental section where the program is described.

Latin students who offer an AP Latin score of 5 should elect 221 and/or 222; an AP Latin score of 4 normally leads to 202, but under special circumstances permission may be given to elect 221 or 222.

### 100 (1) (2) MEDIEVAL AND EARLY MODERN EUROPEAN HISTORY 1

An introduction to the history of Europe from the disintegration of the Roman Imperium through the medieval synthesis and the age of the Renaissance and Reformation, designed to provide understanding of the movements and institutions that have formed our common past and present. Open to all students.

THE STAFF

### 101 (1) (2) MODERN EUROPEAN HISTORY 1

The elements of continuity and change in the modern world. The emergence of the European state system. The scientific revolution. The expansion of Europe. The Ancien Régime and age of revolutions. Nationalism and industrial-

## HISTORY

PROFESSORS: Schwarz<sup>a</sup>, Gulick, Robinson (Chairman)

ASSOCIATE PROFESSORS: Preyer, Cohen, Cox

ASSISTANT PROFESSORS: Cooper<sup>a</sup>, McLaughlin

INSTRUCTORS: Worthman, Garlock, Henrikson, Blank<sup>3</sup>

LECTURERS: Berlin<sup>3</sup>, Chaplin

zation. World wars; totalitarianism and the development of secular ideologies; present world problems. Open to all students. THE STAFF

150 (1) (2) COLLOQUIUM 1

For descriptions of topics and directions for applying see pp. 178–179. Open by permission of the instructor to a limited number of freshman and sophomore applicants.

202 (1) (2) EUROPE IN THE TWENTIETH CENTURY 1

A general survey dealing with political developments within states (including the rise of communism and fascism) and diplomatic relations among them. Open to students with 1 admission unit in modern European history who have taken 1 unit in economics, political science, or sociology, and to students who have taken 2 units in these fields. MR. GARLOCK

203 (1-2) HISTORY OF WESTERN THOUGHT 2

The intellectual history of the West from the Greeks to the present day. Open to qualified freshmen and sophomores (see Directions for Election), and to juniors and seniors without prerequisite. Either semester may be taken independently. **Not offered in 1969–70.**

208 (1) MODERN AFRICAN HISTORY 1

Introduction to African history from 1800 to the present; precolonial Africa; colonial empires and policies; independence movements and decolonization. Prerequisite: 2 units in history including 101 or the equivalent. MR. GARLOCK

209 (1-2) HISTORY OF RUSSIA 2

First term: The Kievan State to 1861. Second term: 1861 to the present with emphasis on the Soviet State and its institutions. Open to qualified freshmen and sophomores (see Directions for Election), to sophomores who have taken 100 and 101 or courses in the related language and literature, and to juniors and seniors without prerequisite. Either semester may be taken independently.



210 (1) THE AGE OF LOUIS XIV IN FRANCE 1

Society and government in France during the "golden age" of absolutism. Analysis of absolute monarchy, foreign relations, and social and intellectual life under Louis XIV. Open to sophomores who have taken 100 and 101 or courses in related language and literature, and to juniors and seniors without prerequisite MR. COX

211 (2) THE ENLIGHTENMENT, THE FRENCH REVOLUTION, AND NAPOLEON 1

An analysis of the intellectual, social, and political forces in France after 1715 which combined to produce the crisis of 1789. The era of the Revolution and Empire with emphasis on the new social and political ideals of this period and on the relations of France with the rest of Europe. Prerequisite: same as for 210. MR. COX

213 (1-2) HISTORY OF ENGLAND 2

A general survey of English history, political, constitutional, and social with special emphasis on England's contributions to the modern world. Some attention to problems of historical interpretation. Prerequisite: same as for 209. MRS. ROBINSON

214 (1) THE HISPANIC WORLD 1

The political, social, economic, and cultural evolution of the Latin American World from colonial days to the present. Emphasis on colonial institutions and their relations to historical developments in the Iberian peninsula, and on the fundamental problems, especially in certain key countries, of modern and contemporary Latin America. Prerequisite: same as for 210. MR. LOVETT

217 (1-2) THE RENAISSANCE AND REFORMATION 2

First semester: Topics in the history of the Renaissance: Italy and selected areas of northern Europe 1300-1600. Second semester: The reformations of the 16th century; emphasis on Luther, Zwingli, Calvin and the Anglican Settlement, the Radical reformers, the Catholic Reformation, and the relationships between religious developments and the broader historical context. Open to freshmen and

sophomores who have taken 100 or related work in art, literature, or philosophy, and to juniors and seniors without prerequisite. Either semester may be taken independently.

MRS. McLAUGHLIN

219 (1) MEDIEVAL INSTITUTIONS 1000–1300 1

Political, social, and economic evolution, with representative examples drawn from western Europe. Feudal states, the Church, rural society, the growth of towns. Theories of government, knighthood, society; related cultural developments. Prerequisite: same as for 217.

MR. COX

221 (1) COLONIAL AMERICA 1607–1783 1

The development of the British colonies in North America, the evolution of British colonial policy, and the American Revolution. Open to sophomores, juniors, and seniors who have taken 2 units in history, economics, political science, or sociology.

MRS. PREYER



222 (2) THE UNITED STATES 1783–1850 1

The adoption of the Constitution and the development of the new nation to the Compromise of 1850. Prerequisite: same as for 221. MRS. PREYER

223 (1) THE UNITED STATES 1850–1900 1

A comparative-historical and interdisciplinary approach will be taken in a study of the following topics: slavery, the Civil War, reconstruction, immigration, industrialization, and urbanization. Prerequisite: same as for 221. MR. HENRIKSON

224 (1) (2) THE UNITED STATES IN THE TWENTIETH CENTURY 1

Political, social, and intellectual developments in an industrial society. Foreign affairs considered only in relation to domestic politics. Prerequisite: same as for 202. (1) MR. WORTHMAN (2) MR. HENRIKSON MR. BLANK

225 (2) JAPANESE HISTORY 1

An introduction to the history of modern Japan with special attention given to the Tokugawa and Meiji periods. Open to qualified freshmen (see Directions for Election), to sophomores who have taken 1 unit in history or political science, and to juniors and seniors without prerequisite. MR. COHEN

226 (1) PRE-MODERN CHINA 1

An introduction to the development of Chinese civilization from the earliest time to the period of the modern western impact. Prerequisite: same as for 225. MR. COHEN

227 (2) MODERN CHINESE HISTORY 1

An introduction to the history of China from 1800 to the present emphasizing political, economic, and intellectual changes brought about by the impact of the West. Open to freshmen and sophomores who have taken 1 unit in history or political science, and to juniors and seniors without prerequisite. MR. COHEN

228 (1) HISTORY OF GREECE 1

A survey of history of Greece beginning with Crete and Mycenae. The achievements of the Greek city-states in thought and art studied against the background of political and social developments. Prerequisite: same as for 210.  
MRS. VERMEULE and MR. TRACY

229 (2) HISTORY OF ROME 1

The growth of the Roman state into a world empire with emphasis on the achievement of the Romans and the problems of empire. Prerequisite: same as for 210.  
MISS DICKISON

300 (1) (2) PROBLEMS IN HISTORICAL THOUGHT 1

A study of the meaning of history and the variety of approaches used by historians, past and present. Emphasis on problems confronting the historian today. Open to sophomores, juniors, and seniors who have taken 2 units of history at the grade II level, or by permission of the instructor. Not open to students who have taken [201].  
(1) MRS. ROBINSON (2) MRS. McLAUGHLIN

305 (1-2) DIPLOMATIC HISTORY OF EUROPE SINCE 1789 2

Problems of European diplomacy and statecraft from 1789 to the present. Prerequisite: same as for 300.  
MR. GULICK

307 (1-2) HISTORY OF UNITED STATES FOREIGN POLICY 2

The development of United States foreign policy from the Revolution to the present. First semester, to 1918; second semester, 1918 to the present. By permission of the instructor either semester may be taken independently. Prerequisite: same as for 300. MR. HENRIKSON

308 (1-2) AMERICAN CONSTITUTIONAL DEVELOPMENT 2

First semester: English origins of American constitutionalism, the transmission of English legal institutions to

the American Colonies, the federal Constitution, and the development of the role of the Supreme Court to 1837. Second semester: Analysis of constitutional controversies in the context of political and economic change in the 19th and 20th centuries. Prerequisite: same as for 305. **Not offered in 1969-70.** MRS. PREYER

310 (1-2) SOCIAL HISTORY OF THE UNITED STATES 2

The impact of conflicting social ideas and actions on the social structure and institutions of the United States. Prerequisite: same as for 300. MR. WORTHMAN

312 (2) HISTORY OF THE MIDDLE EAST 1

Social and cultural institutions of the Islamic Empires up to the 19th century; the impact of the West and the rise and development of national movements in the 19th and 20th centuries. Prerequisite: same as for 305. **Not offered in 1969-70.** MRS. BERLIN

313 (2) INTELLECTUAL HISTORY OF RUSSIA 1

Emphasis on the tradition of radical social thought in the 19th and early 20th centuries. Prerequisite: same as for 305. **Not offered in 1969-70.** MRS. BERLIN

314 (1-2) POLITICAL AND CULTURAL HISTORY OF GERMANY SINCE THE REFORMATION 2

A study of German society and the evolution of the intellectual and artistic life of Germany against the background of political institutions from the Reformation to the present. Prerequisite: same as for 300. **Not offered in 1969-70.**

330 (2) SEMINAR. MEDIEVAL HISTORY 1

Religious and social dissent in the Middle Ages. Open to juniors and seniors by permission of the instructor. (See Directions for Election.) MRS. McLAUGHLIN

331 (1) SEMINAR. ENGLISH HISTORY 1

Topic for 1969-70: The mid-late Victorian attempt to recognize and adjust to the problems posed by urban

growth and intellectual ferment. Prerequisite: same as for 330. MRS. ROBINSON

332 (1) SEMINAR 1

Topic for 1969–70: Africans and Afro-Americans in the old world and in the new. Same course as Sociology 332. Prerequisite: same as for 330.

MRS. SHIMONY and MRS. PREYER

333 (2) SEMINAR. AMERICAN HISTORY 1

Topic for 1969–70: Foreign Policy Issues in the 1930's. Prerequisite: same as for 330. MR. HENRIKSON

336 (1-2) SEMINAR. AMERICAN URBAN HISTORY 2

First semester: Afro-Americans in the city. Second semester: Problems of the city and the metropolis in late 19th and 20th century United States. Either semester may be taken independently. Prerequisite: same as for 330.

MR. WORTHMAN

337 (1) SEMINAR. EUROPEAN INTELLECTUAL HISTORY 1

A consideration of the dominant ideas and influential thinkers of the 19th century and their impact upon the 20th. Prerequisite: same as for 330. MRS. CHAPLIN

338 (2) SEMINAR. CHINESE HISTORY 1

Topic for 1969–70: The Russian and Chinese revolutions. Prerequisite: same as for 330.

MRS. BERLIN and MR. COHEN

339 (1) SEMINAR. COMMUNIST CHINA 1

Emphasis will be on the period of 1949 to the present. Prerequisite: same as for 330. MR. COHEN

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

MR. GULICK  
MRS. PREYER



350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to juniors and seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Courses 100 and 101 or equivalent high school preparation are required of all majors. History majors who have taken one or more colloquia are freed from part or all of the European survey requirement. Freshmen and sophomores with extensive background in European history (modern, and ancient or medieval) may elect as a beginning course 203, 209, 213, 225, or 226.

A wide variety of programs may provide insight into the nature and scope of history as a discipline. Accordingly, the student who plans to major in history is given great latitude in designing a program of study. The student may elect courses freely but ordinarily should have as a primary focus one of the following: (1) a particular geographic area, nation, or culture; (2) a limited time period; (3) a special aspect of history (e.g., social, diplomatic, intellectual); (4) a significant historical problem or theme (e.g., revolution, modernization, racism).

In designing a program students are encouraged to take account of courses given at MIT and in other departments at Wellesley. The concept for the major should be presented to the major adviser and the students should consult with the adviser about changes they may wish to make in the course of the junior and senior years. One of the goals of 345 is to sharpen the focus of the student's program. This may be done in the seminar unit, 345, or by undertaking a course of independent reading which will be followed by a synthesizing examination.

To acquaint students majoring in history with the development of history as a discipline and to alert them to some of its methodological and interpretive problems, History 300 is strongly recommended, preferably in the junior year. It is not required.

Seminars are open by permission to qualified juniors and seniors who have taken 4 units in history. In some cases appropriate advanced work in related departments may be substituted for part of the prerequisite in history. Since

enrollments in seminars are limited, a student wishing to apply for admission to one or more should fill out an application blank obtainable at the department office.

## ITALIAN

PROFESSOR: Avitabile\*

INSTRUCTORS: Oldcorn (Acting Chairman),  
Lanati

All courses are conducted in Italian except 226 and 227. In all courses except seminars some work will be required in the laboratory.

Qualified students may be recommended to spend the junior year in Italy. See p. 29.

### 100 (1-2) ELEMENTARY ITALIAN 2

Development of basic language skills for the purpose of acquiring contemporary spoken Italian and a reading knowledge useful in the study of other disciplines. A general view of Italian civilization. Three periods.

THE STAFF

### 202 (1) INTERMEDIATE ITALIAN 1

Written and oral practice to develop fluency. Topics of contemporary interest with readings from newspapers, periodicals, and short stories. Prerequisite: 100 or its equivalent.

MISS LANATI

### 205 (1) INTRODUCTION TO LITERARY ANALYSIS 1

Intensive practice in written and oral expression through the critical study of literary works from the modern period. Three periods. Prerequisite: 100 or its equivalent. **Not offered in 1969–70.**

MR. OLDCORN

### 207 (2) SIGNIFICANT MOMENTS OF ITALIAN LITERATURE: THE MIDDLE AGES TO THE POST-RENAISSANCE 1

Important literary movements interpreted through the study and analysis of selected medieval, humanistic, and Renaissance works. Prerequisite: 202 or 205 or [206].

MR. OLDCORN

### 226 (1) ITALIAN HUMANISM 1

For description and prerequisite, see Extradepartmental 226.

227 (2) THE ITALIAN RENAISSANCE 1

For description and prerequisite, see Extradepartmental 227.

301 (1-2) DANTE 2

A study of Dante's *Divina Commedia* and minor works. Prerequisite: 207 or [208] or permission of the instructor. MISS LANATI

303 (2)\* ROMANTICISM 1

Pre-romantic and romantic literature with special reference to Foscolo, Leopardi, and Manzoni. Prerequisite: same as for 301. MISS LANATI

308 (2)\* FROM VERISMO TO NEO-REALISM 1

A study of the main literary trends of the last century as seen in the works of representative authors such as Verga, Pascoli, Pirandello, Svevo, Moravia, Vittorini, Pavese, Montale. Prerequisite: same as for 301. **Not offered in 1969-70.** MR. OLDCORN

309 (2) SEMINAR. ITALIAN ROMANTICISM 1

Research in some significant phases of Italian criticism (including Dante, the Renaissance Aristotelians and Tasso, Vico, DeSanctis, Croce) and in contemporary trends. Open by permission of the instructor. THE STAFF

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1) (2) RESEARCH OR INDIVIDUAL 1 or 2  
STUDY

Open by permission to students who have completed 2 units in literature in the department.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

## Directions for Election

Course 100 counts for the degree but does not count for the major.

Majors should plan to take 301, and 306 or 307; it is recommended that they take both 306 and 307.

Courses in one or more other literatures, ancient or modern, in art, history, philosophy, and Extradepartmental 330 are recommended as valuable related work.

Majors planning to do graduate work in Italian are advised to take at least 1 unit in French or Spanish literature and to have a reading knowledge of Latin or of a third Romance language.

## LATIN

For courses offered in Latin, see Greek and Latin, pp. 103–107.

## MATHEMATICS

PROFESSORS: Schafer (Chairman), Evans  
ASSOCIATE PROFESSOR: Norvig  
ASSISTANT PROFESSOR: Auslander  
INSTRUCTORS: Graham, Gover, Pritzker,  
Hoover<sup>3</sup>

All courses except 100 and 345 meet for two periods weekly with a third period every other week.

### 100 (1) (2) INTRODUCTION TO MATHEMATICAL THOUGHT 1

Topics chosen to provide an understanding of creative thinking in mathematics. Material selected from such areas as number theory, algebraic and geometric structures, foundation of the real number system, set theory, and construction of transfinite numbers. Emphasis on concepts rather than techniques. Not open to students who have taken any other college mathematics course.

THE STAFF

### 110 (1) (2) ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS I 1

Study of functions of one variable. Limits and continuity. Differential calculus of algebraic functions with applications. The definite integral. Prerequisite: substantial work in the theory of trigonometric functions. No credit is given for 110 unless it is followed by 111.

THE STAFF

111 (1) (2) ANALYTIC GEOMETRY, 1  
INTRODUCTION TO THE CALCULUS II

The Fundamental Theorem of Calculus. The trigonometric, the logarithmic and the exponential functions. Techniques of integration. Prerequisite: 110 or a substantial introduction to the calculus. THE STAFF

203 (2) PROBABILITY AND ELEMENTARY 1  
STATISTICS

Topics selected from the theory of sets, discrete probability for both single and multivariate random variables, probability density for a single continuous random variable, expectations, mean, standard deviation, and sampling from a normal population. Prerequisite: [109] or 111 or the equivalent. MRS. AUSLANDER

206 (1) (2) LINEAR ALGEBRA 1

Systems of linear equations, vector spaces over the real and complex fields, linear transformations, matrices, determinants. Prerequisite: same as for 203.  
(1) MRS. SCHAFER (2) MR. GRAHAM

207 (1) (2) INTERMEDIATE CALCULUS I 1

Extension of the study of differential and integral calculus begun in 111. Infinite series and Taylor's theorem. Prerequisite: [109] or 111. THE STAFF

208 (1) (2) INTERMEDIATE CALCULUS II 1

Two and three dimensional vector algebra; three dimensional analytic geometry; partial differentiation; multiple integration. Prerequisite: [200] or [204 (1)] or 207. Students entering with Advanced Placement credit may substitute 206 for 207 as a prerequisite. THE STAFF

209 (1) LINEAR PROGRAMMING AND THE 1  
THEORY OF GAMES

Convex sets and linear functionals; the fundamental problem of linear programming and the Simplex Method; duality in mathematical programming; the solution of matrix games by linear programming. Prerequisite: same as for 207. MR. NORVIG

An introductory course in ordinary differential equations. Prerequisite: [201] or [204] or 208; or by permission of the instructor [200] or [204 (1)] or 207. Not open to students who have taken [303]. MR. NORVIG

## 301 (1)\* MATHEMATICAL STATISTICS

1

Topics include continuous multivariate densities, moment generating functions, sampling theory, estimation, confidence intervals, tests of statistical hypothesis and regression. Prerequisite: 203, and [201] or [204] or 208. **Not offered in 1969-70.**

## 302 (1-2) ELEMENTS OF ANALYSIS

2

Point set theory; study of convergence, continuity, differentiation and integration in finite dimensional Cartesian spaces. The first semester may be taken independently. Prerequisite: 206, and [201] or [204] or 208.

MR. NORVIG





305 (1-2) MODERN ALGEBRAIC THEORY 2

Introduction to algebraic systems including groups, rings, integral domains, fields, abstract vector spaces. The first semester may be taken independently. Prerequisite: same as for 302.

MRS. AUSLANDER

308 (1) TOPICS IN GEOMETRY 1

Topic for 1969–70: An introduction to the geometry, topology, and calculus of manifolds. Prerequisite: 302 (1) or permission of the instructor.

MR. GOVER

310 (2) FUNCTIONS OF A COMPLEX VARIABLE 1

Elementary functions and their mapping properties; integration theory; series expansions of analytic functions. Prerequisite: 302 (1).

MISS EVANS

312 (2) SELECTED TOPICS 1

Topic for 1969–70: Studies in algebra. Prerequisite or corequisite: 305 (1).

MRS. SCHAFER

345 (1) (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. (See Directions for Election.)

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to juniors and seniors by permission.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

A major in mathematics must include 206, the first unit of 302 and of 305, and the second unit of 302 or 310. Two units of Grade III must be taken in the senior year.

A student may fulfill the 345 requirement by taking any Grade III course in the senior year and by substituting for a portion of the required work of that course a paper on a

topic in mathematics which draws on the material of that course and on other courses.

Course 100 is intended primarily as a terminal course. It may not be counted in the major. 110 and 111 are intended for students with a serious interest in science and mathematics. Students planning to elect both units of 302 or 305 should take both in the same year.

Students expecting to do graduate work in mathematics should elect the second unit of 302 and of 305, 308, 310, and 312. They are also advised to acquire a reading knowledge of one or more of the following languages: French, German, or Russian.

Students who expect to teach at the high school level are advised to elect the second unit of 302, and 308 and 310.

## MUSIC

PROFESSOR: Lamb

ASSOCIATE PROFESSORS: Herrmann, Jander

ASSISTANT PROFESSORS: Crawford, Barry  
(Chairman)

INSTRUCTOR: Reichard<sup>3</sup>

INSTRUCTORS IN PERFORMING MUSIC:

Zighera (Cello), Goetze (Piano), Taylor (Organ), Pappoutsakis (Harp), Speyer (Oboe and English Horn), Shapiro (Horn), Wrzesien (Clarinet), Preble (Flute), Vivian (Organ), O'Donnell (Voice), Pinto (Violin), Feldman (Viola da gamba), Hedberg (Viola), Moss (Piano), Odiaga (Harpsichord), Plaster (Bassoon and Assistant in Chamber Music).

### 101 (1-2) INTRODUCTORY COURSE 2

The fundamentals of musicianship. Development of reading and listening skills. Introduction to traditional harmony. Open to all students. The first semester may be elected independently. Three periods: one lecture and two section meetings. MISS BARRY, MR. LAMB

### 103 (1-2) INTRODUCTION TO THE LITERATURE OF MUSIC 2

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 required. Open to sophomores, juniors, and seniors who have taken not more than one unit in the department. Not to be counted toward a major. Two periods of lecture and one section meeting. MR. HERRMANN, MISS REICHARD

### 200 (1-2) SURVEY OF DESIGN IN MUSIC 2

A survey of materials and methods of composition from the earliest times to the present. Prerequisite: 101. Three periods. MR. JANDER

### 203 (1-2) COUNTERPOINT 2

Two- and three-part writing. Analysis. Prerequisite: 101. MR. CRAWFORD

208 (1)\* THE BAROQUE PERIOD 1

Studies in the music of the 17th and early 18th centuries with emphasis on the works of Bach and Handel. Not to be counted toward a major. Prerequisite: 101 or 103.

MR. JANDER

209 (1)\* THE CLASSICAL PERIOD 1

Studies in the music of Haydn, Mozart, and Beethoven. Not to be counted toward a major. Prerequisite: 101 or 103. **Not offered in 1969–70.**

MR. JANDER

210 (2)\* THE ROMANTIC PERIOD 1

Analysis of representative compositions of the 19th century. Not to be counted toward a major. Prerequisite: 103 or 200 or 209. **Not offered in 1969–70.**

MR. JANDER

214 (2)\* THE TWENTIETH CENTURY 1

An introduction to contemporary music. Not to be counted toward a major. Prerequisite: 103 or 200 or 208 or 209.

MR. JANDER

303 (1) THE MIDDLE AGES AND THE RENAISSANCE 1

Topic for 1969–70: Studies in the evolution of style in the 15th century. Prerequisite: 200.

MR. LAMB

307 (1) THE OPERA 1

A study of operatic forms, styles, and traditions from the time of Monteverdi to the present. Open to juniors and seniors who have taken 2 units of Grade II in the literature of music.

MR. JANDER

312 (1-2) HARMONY 2

The figured bass. Harmonization of melodies. Analysis. Three periods. Prerequisite: 203 or [205].

MR. LAMB

316 (1-2) INTRODUCTION TO COMPOSITION 2

Advanced studies in theory. The principles of instrumen-

tation. Composition for small ensembles. Prerequisite : 312  
and 320. MR. CRAWFORD

320 (2) SEMINAR. STUDIES IN MUSIC SINCE 1900 1

Topic for 1969–70: Selected works of Igor Stravinsky.  
Prerequisite : 200. MR. LAMB

321 (1) SEMINAR. THE AGE OF BACH AND HANDEL 1

Topic for 1969–70: The instrumental music of Handel.



Open to students who have taken 200 and who have taken or are taking 312. MR. LAMB

322 (2) SEMINAR. CLASSICISM AND TRANSITION 1

Topic for 1969–70: The symphonies of Haydn. Prerequisite: same as for 321. MR. HERRMANN

344 (1) (2) PERFORMING MUSIC 1 or 2

Intensive study of interpretation and of advanced technical performance problems in the literature. Open by permission of the instructor to qualified juniors and seniors who have taken or are taking 200. (See Directions for Election.) One hour lesson per week. THE STAFF

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors. MR. JANDER

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Directed study in theory, orchestration, composition, or the history of music. Open to seniors by permission.

### **Performing Music: Instrumental and Vocal Lessons**

Instruction is provided in voice, piano, organ, harpsichord, harp, violin, viola, cello, viola da gamba, flute, oboe, clarinet, bassoon, and French horn. The department strongly recommends the study of performing music as a complement to the course work.

Students except those in 344, who elect performing music instruction are charged at the rate of \$168 for a half-hour private lesson per week throughout the year. An additional fee of \$20 per year is required of all performing music students for the use of a practice studio for one period daily. The fee for daily harpsichord or organ practice is \$30. Performing music fees are payable in advance and are not subject to return or reduction except upon recommendation of both the dean of students and the chairman of the Department of Music.

Special arrangements may be made for group instruction in viola da gamba only. The rate is \$56 for the semester or \$112 for the year for a one-hour group lesson per week. Private instruction in viola da gamba may be taken at the rate of \$84 for the semester or \$168 for the year for a half-hour lesson per week.

Students may take performing music provided they take or have already taken 1 unit in the theory of music. Performing music is an elective, and students wishing to take it should notify the department in accordance with the procedure required for the election of an academic course. Performing music may be taken for academic credit, but only by students enrolled in 344. (See course description and Directions for Election.)

Instruction in performing music is available to graduates of Wellesley College and to residents of the Town of Wellesley by special arrangement.

Performing music study is normally undertaken on a yearly basis, although with the permission of the chairman of the department it may be elected for a single semester only. Students whose work proves unsatisfactory may be required to discontinue their lessons.

The College subscribes for eight seats in the Saturday evening series of the Boston Symphony Orchestra. Tickets for these concerts are available at cost and students taking music courses are given preference in the use of them.

## Directions for Election

One to 4 units of 344 may be counted towards the degree provided at least 2 units of Grade III work in the literature of music are completed. Music 344 should ordinarily follow or be concurrent with such courses in the literature of music; not more than 1 unit may be elected in advance of election of Grade III work in the literature. Only 1 unit of 344 may be elected per term.

Permission to elect a unit of 344 is granted only after a student has successfully auditioned for the department faculty upon the recommendation of her instructor in performing music, such audition to take place early in the second semester of the student's sophomore or junior year. Permission to elect subsequent units is granted only to a student whose progress in 344 is judged excellent.

Students wishing to major in music should consult with the chairman of the department who will advise them in planning their work both in the major and in such related fields as European history, literature, and art. Those who



propose after graduation to continue into musicology should note that a reading knowledge of both French and German is essential for work in that field and that in addition a certain proficiency in Italian and in Latin is highly desirable.

101 (1) (2) PLATO 1

An introduction to philosophy through the study of selected Platonic dialogues, emphasizing Plato's view of the nature of man and of human development. Some comparison with alternative accounts, e.g. those of Dewey, Freud, or Sartre. Open to all students. THE STAFF

107 (1) THE DEVELOPMENT OF MODERN PHILOSOPHY 1

For description see 207. Open to freshmen and to sophomores who have taken no other course in philosophy. MISS ONDERDONK

150 (1) (2) COLLOQUIUM 1

For description of topics and directions for applying see pp. 179–180. Open by permission to a limited number of freshman and sophomore applicants.

201 (2) HISTORY OF CLASSICAL GREEK PHILOSOPHY 1

Readings in Plato's later dialogues and in Aristotle's treatises with a view to tracing the principal developments in epistemology and metaphysics. Selected readings also from the pre-Socratics and the Scholastics. Prerequisite: 101 or permission of the instructor. MRS. HARING

203 (1) (2) PHILOSOPHY OF ART 1

An examination of some major theories of art and art criticism. Emphasis on the clarification of such key concepts as style, meaning, and truth, and on the nature of judgments and arguments about artistic beauty and excellence. Open to freshmen and sophomores who have taken one course in philosophy, and to juniors and seniors without prerequisite. (1) MRS. HARING (2) MRS. STADLER

## PHILOSOPHY

PROFESSORS: Onderdonk, Haring  
ASSOCIATE PROFESSOR: Stadler (Chairman)  
ASSISTANT PROFESSORS: Putnam,  
Congleton\*, Shue

204 (1) PHILOSOPHY OF LANGUAGE 1

An investigation of some philosophical questions about language such as the relation between language and thought and the nature of meaning. Open to sophomores who have taken one course in philosophy, and to juniors and seniors without prerequisite. **Not offered in 1969-70.**

MISS CONGLETON

206 (1) MORAL PHILOSOPHY 1

A systematic investigation of moral reasoning and moral judgments. Readings from traditional and contemporary sources. Prerequisite: same as for 203.

MRS. PUTNAM

207 (1) (2) THE DEVELOPMENT OF MODERN PHILOSOPHY 1

The evolution of continental rationalism and British empiricism presented through a study of the major philosophers of the 17th and 18th centuries from Descartes through Hume; the relationship of these developments to trends in the literature and in the natural and social sciences of the time. Prerequisite: same as for 204.

THE STAFF

211 (2) PHILOSOPHY OF RELIGION 1

An examination of basic problems regarding the nature of religion, the grounds of religious belief, and the character of ritual, with attention to both traditional and contemporary positions. Prerequisite: same as for 204. **Not offered in 1969-70.**

MISS CONGLETON

216 (1) LOGIC 1

An introduction to the methods of symbolic logic and their application to arguments in ordinary English. Discussion of validity, implication, consistency, proof, and of such topics as the thesis of extensionality and the nature of mathematical truth. Open to sophomores who have taken one course in philosophy or mathematics, and to juniors and seniors without prerequisite.

MISS ONDERDONK

217 (1)\* PHILOSOPHY OF SCIENCE 1

An examination of the fundamental relations between science and philosophy, showing how some basic philo-

sophical issues have their origins and justification in theories about the natural world. Examples from the social and physical sciences. Prerequisite: same as for 203.

MRS. PUTNAM

219 (2) HISTORY OF SCIENCE II 1

For description and prerequisite, see Extradepartmental 219.

301 (1) EXISTENTIALISM AND ITS ROOTS IN  
NINETEENTH CENTURY PHILOSOPHY 1

Major themes in the literature of existentialism presented through a comparative study of philosophers from Hegel through Heidegger. Open to juniors and seniors who have taken 2 units in philosophy including 207 or its equivalent, or by permission of the instructor. MRS. STADLER

302 (2) PRAGMATISM AND NATURALISM 1

An examination of works by the leading American pragmatists and of their influence on the development of a naturalistic world view in the philosophy of the 20th century. Prerequisite: same as for 301. MRS. PUTNAM

306 (2)\* ADVANCED LOGIC 1

Discussion of the characteristics of deductive systems, e.g., consistency and completeness; development of a system of axiomatic abstract set theory; investigation of philosophical problems such as those presented by Gödel's theorem and by the axiom of choice. Prerequisite: 216. **Not offered in 1969–70.**

311 (1) KANT 1

Intensive studies in the philosophy of Kant with some consideration of his position in the history of philosophy. Prerequisite: same as for 301. MRS. STADLER

338-(2) SEMINAR. POLITICAL PHILOSOPHY 1

Topic for 1969–70: The nature and basis of political obligation. Same course as Political Science 338. Open by permission of the instructors to a limited number of qualified juniors and seniors. MR. SHUE and MR. STETTNER

The following Seminars 340, 341, and 344 are planned as small forums for intensive practice in the writing and presentation of papers and for detailed discussion of selected problems of interest to student members. Specific topics for 1969–70 will be chosen by the students in consultation with the instructor.

340 (1) JUNIOR SEMINAR I 1

General topic: Problems in modern philosophy. Open to all juniors majoring in philosophy, and by permission of the instructor to other qualified students.

MRS. PUTNAM

341 (2) JUNIOR SEMINAR II 1

General topic: Problems pertaining to one comprehensive philosophical system. Prerequisite: same as for 340.

MISS ONDERDONK, MRS. HARING

344 (1) SEMINAR 1

General topic: Advanced intensive study of a recurring philosophical problem, traditional formulations and contemporary re-evaluations. Open to seniors majoring in philosophy, and by permission of the instructor to other qualified seniors.

MRS. HARING

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

MRS. STADLER, MRS. PUTNAM

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to juniors and seniors by permission.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Philosophy majors are normally required to demonstrate their competence in at least two of the following fields:

1) logic; 2) history of philosophy, ancient or modern; and

3) value theory, i.e., moral or political philosophy or the philosophy of art. In addition they should normally demonstrate their comprehension of one major philosopher and of one specific topic of current philosophical concern, e.g., necessary truth. There are several ways to meet each of these requirements: taking an oral or written examination, submitting a paper, doing work of honors quality for a relevant course offered by the department. Majors are urged to elect the seminars for juniors and seniors: appropriately designed work in the seminars will satisfy the requirements mentioned above.

A knowledge of Greek, French, or German is desirable for all majors. Students planning graduate work in philosophy should acquire a reading knowledge of two of these languages.

Majors in the Class of 1970 should consult with the department.

## 121 (1-2) PHYSICAL EDUCATION ACTIVITIES

The instructional program in physical education is divided into four seasons, two each semester. To complete the college work in physical education a student must earn 8 credit points before the end of the junior year. Most activities give 1 credit point each season, but certain activities give 2 or more credit points as noted below. The activities offered in 1969–1970 follow:

<u>(1) Scheduled throughout the first semester</u>	Credit points
Modern dance as related to theatre	3
Senior Life Saving	2
Water safety instructor	4

### Scheduled in first half of first semester

Archery, canoeing, crew, dance activities, field hockey, golf, independent program, individual exercise activities, riding, sailing, soccer, swimming activities, tennis, volleyball.

Each activity 1

### Scheduled in second half of first semester

Badminton, basketball, bowling, dance activities, fencing, gymnastics, ice skating, independent pro-

## PHYSICAL EDUCATION

PROFESSOR: Spears (Director)

ASSISTANT PROFESSOR: Cochran

INSTRUCTORS: Carson, Schaad, Staley,

Alvarez, Milne, Burling, Jordan, Shevenell

gram, individual exercise activities, recreation field work, riding, swimming activities, squash, volleyball. Each activity 1

Recreation leadership, scuba Each activity 2

(2) Scheduled throughout the second semester

History of Dance 3

Senior Life Saving 2

Water safety instructor 4

Scheduled in first half of the second semester

Badminton, basketball, bowling, dance activities, fencing, gymnastics, ice skating, independent program, individual exercise activities, motor learning laboratory, recreation field work, skiing, swimming activities, squash, volleyball

Each activity 1

Recreation leadership, ski instructor.

Each activity 2





Scheduled in second half of second semester

Archery, canoeing, crew, dance activities, golf, riding, independent program, individual exercise activities, lacrosse, recreation field work, sailing, swimming activities, tennis, volleyball.

Each activity 1

Tennis instructor 2

## Directions for Election

Normally each student registers for a minimum of 2 half semesters a year until Physical Education 121 requirements are completed. Each activity is divided into courses to provide instruction for students at similar skill levels. Complete descriptions of each course are available from the department.

A student's choice of activity is subject to the approval of the department and the College Health Service. Upon recommendation of a college physician and permission of the department a student may be assigned modified activities.

Special fees are charged for a few of these activities, such as riding. Fee schedules are available at registration.

Students are welcome to continue physical education activities throughout their college career. Members of the faculty may elect any of the activities with the permission of the department.

Unless otherwise noted all courses meet for two periods of lecture and discussion weekly and all Grade I and Grade II courses have one three-hour laboratory appointment weekly.

100 (1) BASIC CONCEPTS IN PHYSICS 1

Forces, fields, conservation laws, waves, atomic structure. Open to students who are not eligible for 103 or 105. Two periods weekly with a third period every other week. Three and one-half laboratory appointments on alternate weeks. MRS. GUERNSEY

101 (2) INTRODUCTION TO PHYSICAL THOUGHT 1

Discussion of the fundamental laws of classical and

## PHYSICS

PROFESSORS: Guernsey (Chairman), Fleming

ASSISTANT PROFESSORS: Brown, Zimmermann, Zornberg

modern physics with emphasis on basic concepts. The nature of laws and theories. The relationship between experimental and theoretical methods of investigation. The role of mathematics. Open to all students without prerequisite. Two periods weekly with a three-hour laboratory appointment every other week.

MR. ZIMMERMANN

103 (1) FUNDAMENTAL PHYSICS 1

Same topics as 100. Open to students who offer physics for admission and who are not eligible for 105. Two periods weekly, with a third period every other week.

MR. ZORNBERG

105 (1) MECHANICS 1

Elementary mechanics with emphasis on rotational motion; wave motion; introduction to special relativity and atomic structure. Open to students who have completed Mathematics [109] or 111, or to students who offer physics for admission and are taking Mathematics 111. Two periods weekly with a third period every other week.

MISS BROWN

106 (2) INTERMEDIATE PHYSICS 1

Further development of selected topics in physics. Emphasis on wave phenomena, optics, and electric circuits. Open to students who have taken 100 or 103 or 105 and who have taken or are taking Mathematics [109] or 110. Two periods weekly, with a third period every other week.

MR. ZORNBERG

200 (2) MODERN PHYSICS 1

Basic principles of relativity and quantum theory, and of atomic and nuclear structure. Prerequisite: [104] or 105 or 106. Prerequisite or corequisite: Mathematics [109] or 111.

MR. ZORNBERG

201 (2) ELECTRICITY 1

Fundamental laws of electric and magnetic fields; electric circuits; electric and magnetic properties of matter. Prerequisite: [104] or 105 or 106, and Mathematics [109] or 111.

MRS. GUERNSEY

202 (1) OPTICAL PHYSICS 1

Wave theory as applied to optical phenomena. Interference, diffraction, birefringence, polarization, dispersion. Introduction to modern optics including lasers and holography. Prerequisite: same as for 201. MISS BROWN

206 (1)\* ELECTRONICS 1

Fundamental principles of electron tubes and transistors; application to power supplies, amplifiers, oscillators, modulators. Introduction to nonlinear electronic circuits. Prerequisite: 201. MRS. GUERNSEY

216 (1) APPLICATION OF MATHEMATICS IN THE PHYSICAL SCIENCES I 1

For description and prerequisite, see Extradepartmental 216.

217 (2) APPLICATIONS OF MATHEMATICS IN THE PHYSICAL SCIENCES II 1

For description and prerequisite, see Extradepartmental 217.

301 (2) QUANTUM MECHANICS 1

Interpretative postulates of quantum mechanics; solutions to the Schroedinger equation; operator theory; perturbation theory; scattering; matrices. Prerequisite: 217, or Mathematics [201] or [204] or 208, and in addition one term of Grade II physics or permission of the instructor. Physics 306 is recommended. MISS BROWN

303 (1) NUCLEAR PHYSICS 1

Static properties of atomic nuclei. Properties of charged particles, neutrons, and gamma rays; their interactions with matter. Natural and artificial radioactivity. Nuclear reactions. Prerequisite: 301. MR. ZIMMERMANN

304 (2) ELECTROMAGNETIC THEORY 1

Maxwell's equations; electromagnetic waves and radiation; physical optics. Prerequisite: 201 and 306.

MISS BROWN

305 (1)\* THERMODYNAMICS 1

The laws of thermodynamics; kinetic theory of gases; statistical mechanics. Prerequisite: [104] or 105 or 106, and 217 or Mathematics [201] or [204] or 208. **Not offered in 1969-70.**

306 (1) ADVANCED MECHANICS 1

A vector analytical presentation of Newtonian mechanics; introduction to Lagrangian and Hamiltonian mechanics. Prerequisite: same as for 305. MR. ZORNBERG

309 (2) ADVANCED EXPERIMENTAL PHYSICS 1

Fundamental experiments selected from different areas of physics. Two laboratory appointments per week. Open by permission of the instructor. MRS. GUERNSEY

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to juniors and seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

A major in physics ordinarily should include 201, 202, 301, 304, and 306. Course 217 or Mathematics [201] or [204] or 208 and 2 units of another laboratory science are required for a major in physics.

A reading knowledge of two of the following languages is desirable: French, German, Russian.

Premedical students are referred to the requirements given on p. 31.

### Placement and Exemption Examinations

to allow students to enter any Grade I course in the physical sciences for which a Grade I physics course is a prerequisite. No unit of credit will be given for passing this examination.

An examination for exemption from Physics 105 is offered to qualified students who present one admission unit in physics. Students who pass this examination and who present an acceptable laboratory notebook will be eligible for Grade II work in physics. No unit of credit will be given for passing this examination.

101 (1) (2) POLITICAL ANALYSIS 1

Questions basic to political analysis including: What political beliefs are held by participants in a political system? What is the nature of the system's policy-making processes? How do political leaders achieve power? What factors contribute to political stability and change? Course intended to help students interpret contemporary political developments and to provide analytical tools for advanced work. Illustrations drawn from various political systems, including Great Britain, the Soviet Union, and the United States. Open to all students. THE STAFF

150 (1) (2) COLLOQUIUM 1

For description of topics and directions for applying see pp. 180–181. Open by permission to a limited number of freshman and sophomore applicants.

200 (1) (2) COMPARATIVE POLITICS OF THE DEVELOPING AREAS 1

Study of selected aspects of African, Asian and Latin American political systems, with emphasis upon use and evaluation of analytical concepts in recent literature; political change, national integration, and legitimization among problems considered. Prerequisite: Grade I course in political science or 2 units in economics, history, psychology, or sociology.

(1) MR. ROSENBAUM (2) MR. SEDERBERG

202 (1)\* CLASSICAL AND MEDIEVAL POLITICAL THOUGHT 1

Study of political theories and doctrines of selected

## POLITICAL SCIENCE

PROFESSORS: Stratton, Evans (Chairman)  
ASSOCIATE PROFESSORS: Phibbs, Miller  
ASSISTANT PROFESSORS: Schechter,  
Stettner, Rosenbaum  
INSTRUCTORS: Sederberg, Stern<sup>3</sup>  
LECTURER: Atkins

classical, medieval, and early modern writers such as Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Hooker. Writings are considered in their historical context and for their relevance to modern political analysis. Prerequisite: Grade 1 course in political science or 2 units in economics, history, philosophy, psychology, or sociology. MR. STETTNER

203 (2) MODERN AND CONTEMPORARY POLITICAL THOUGHT 1

Study of political theories and doctrines from the 17th century to the present. Among the theorists studied are Hobbes, Locke, Hume, Rousseau, Burke, Mill, Hegel, Marx, and representatives of contemporary schools and ideologies. Writings are considered in their historical context and for their relevance to political analysis. Not open to students who have taken Political Science [335]. Prerequisite: same as for 202. MR. STETTNER

205 (1) COMPARATIVE GOVERNMENT: WESTERN EUROPE 1

Analysis of European political regimes including West Germany, Italy, France, and the United Kingdom with reference to constitutional traditions, party systems, interest groups, parliaments, political executives, and bureaucracies. Examination of key problems facing representative government. Prerequisite: same as for 200. MR. STETTNER

210 (1) (2) AMERICAN PARTIES AND INTEREST GROUPS 1

Analysis of the role of extragovernmental political organizations in the American political process. Organization, operation, and evaluation of political parties and interest groups; recruitment of leaders; elections and behavior of the electorate; influences on public policy formation. Prerequisite: same as for 200.

MR. SCHECHTER

211 (2) POLICY-MAKING IN THE FEDERAL GOVERNMENT 1

Study of the President and other members of the presidency, political and career executives in the bureaucracy, and members of Congress and their staffs; formal and



informal organization ; emphasis upon relationships across organizational lines and influences upon behavior. Prerequisite : same as for 200. MR. STRATTON

221 (1) (2) WORLD POLITICS 1

An introduction to the international system with emphasis on contemporary theory and practice. Analysis of historical antecedents, material bases of power, and modes of accomodation and conflict resolution. Not open to students who have taken [220]. Prerequisite : same as for 200.

MISS MILLER

222 (1) COMPARATIVE FOREIGN POLICIES 1

An exploration of 1) restraints and choices confronting policy-makers and elites in relationships with external factors and 2) the interplay of social, political, economic, and military factors shaping the content of national foreign policies and processes of regional integration. Examples drawn from the 20th century experience of "advanced" and "modernizing" countries. Open to students who have taken 221. Not open to students who have taken [220].

MISS MILLER

223 (2) URBAN POLITICS 1

An introduction to contemporary urban political problems emerging from racial politics, redevelopment, community organization and action programs, poverty law and law enforcement, intergovernmental relations, and national urban policy. Some consideration of comparable issues in the United Kingdom and other megalopolitan areas abroad. Seminar sessions and case studies conducted by specialists in urban politics. Open to sophomores who have had 2 units in political science, economics, sociology, or history, and to juniors and seniors without prerequisite.

MR. ATKINS  
MR. SCHECHTER

302 (1)\* AMERICAN POLITICAL THOUGHT 1

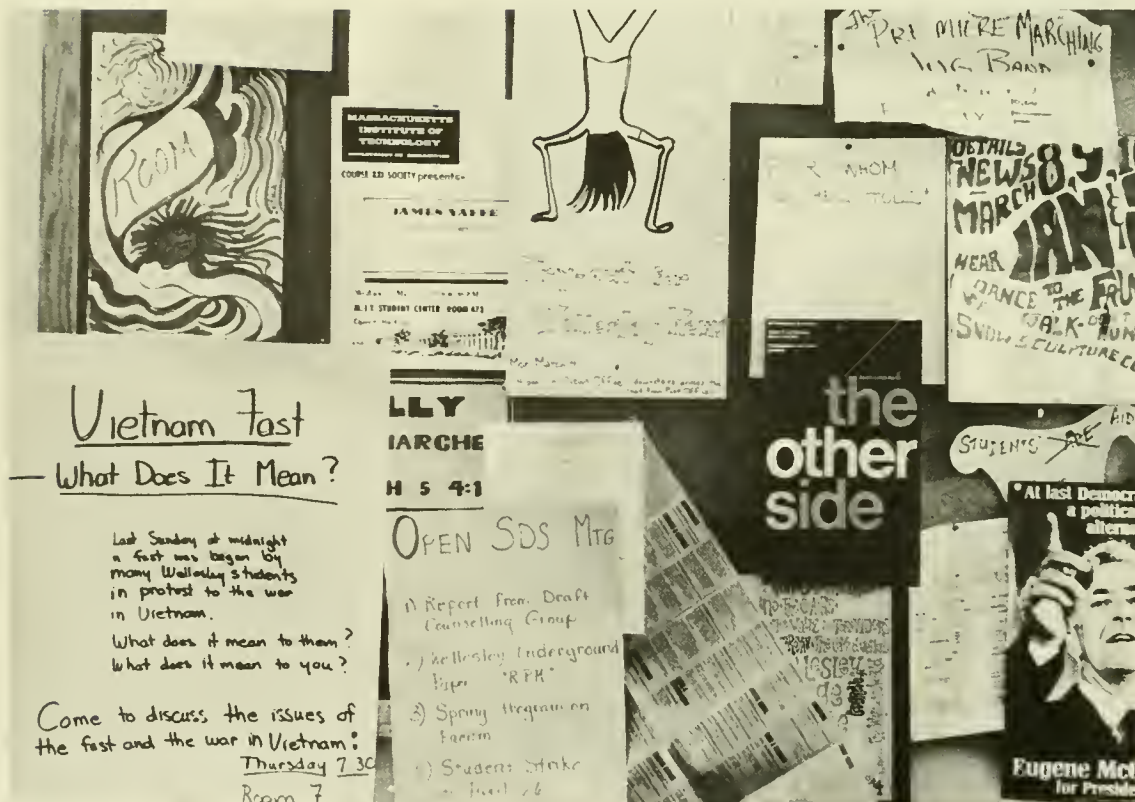
An examination of political theories and doctrines which have been developed in the United States with a view toward determining their adequacy as description of, and prescriptions for, American politics. Special emphasis given

to the period of the framing of the Constitution, the Progressive Era, and to contemporary political beliefs and problems. Open to juniors and seniors who have taken a Grade II course in political science, history, philosophy, or sociology, and by permission of the instructor to other qualified juniors and seniors. **Not offered in 1969-70.** MR. STETTNER

303 (2) SYSTEMATIC POLITICAL THEORY

1

Exploration of key concepts of political theory including power, authority, justice, freedom, democracy, equality, and obligation. Readings from both traditional and contemporary sources. Open to juniors and seniors who have taken a Grade II course in political science, history, or philosophy. Not open to students who have taken [235]. **Not offered in 1969-70.** MR. STETTNER



306 (2) COMPARATIVE GOVERNMENT: 1  
SOUTH AND EAST ASIA

The study of national and international politics in Asia with particular reference to India, China, and Japan. Special attention will be given to the theory of politics in the national setting of these three countries and in the special context of Asian international relations. Stress upon the impact of society, culture, and modernization upon politics and governmental institutions. Open to students who have taken 200 or History 225 and 227, and by permission of the instructor to other qualified students. MR. PHIBBS

307 (2) COMPARATIVE GOVERNMENT: 1  
LATIN AMERICA

Study of politics and government in selected Latin American states including Argentina, Brazil, Chile, and Mexico, treating dynamics of power, constitutionalism, crisis government, and factors underlying policy formation. Open to students who have taken 200, to juniors and seniors who have taken a Grade II course in political science or History 214, and by permission of the instructor to qualified students majoring in Spanish.

MR. ROSENBAUM

308 (1) COMPARATIVE GOVERNMENT: THE 1  
SOVIET UNION AND EASTERN EUROPE

Study of politics and government in the Soviet Union and East European satellites: the interrelationship of ideology and power, leadership, political institutions, and policy formation. Open to juniors and seniors who have taken a Grade II course in political science or History 209 or 313, and by permission of the instructor to juniors and seniors emphasizing Russian language and history.

MR. SEDERBERG

310 (1) POLITICAL DECISION-MAKING 1  
IN THE UNITED STATES

Analysis of the policy-making process based on simulation of decision-making in executive, legislative, and/or judicial units at different levels of government in the United States. Four or five nationally important questions considered with all class members playing roles as advocates, witnesses, decision-makers, or analysts; evaluation of role-

playing and extent to which relevant considerations are taken into account in reaching decisions. Open to students who have taken 210 and 211, and by permission of the instructor to qualified juniors and seniors who have had only one of these courses.

MR. STRATTON, MR. SCHECHTER

321 (1) FOREIGN POLICY ANALYSIS 1

Study of American foreign policy within a comparative analytical framework examining the interplay of domestic and external sources. Considerable attention to different types of data, approaches, and methods in analyzing the formulation and substance of foreign policy. Open to juniors and seniors who have taken [220], and by permission of the instructor to qualified juniors and seniors who have taken 221.

MISS MILLER

322 (2) STUDIES IN INTERNATIONAL RELATIONS 1

Selected topics in current international affairs. Open to juniors and seniors who have taken 221 and 222. Not open to students who have taken [220] or both 221 and [325].  
**Not offered in 1969-70.**

MISS MILLER

330 (1) LAW AND THE ADMINISTRATION OF JUSTICE 1

An introduction to the nature and functions of law; the adversary system; methods of legal development based upon an analysis of selected problems in contract, tort, and criminal law; comparison of common law and civil law systems; relation of law and politics. Open to students who have taken a Grade II course in political science, economics, history, philosophy, psychology, or sociology, and by permission of the instructor to sophomores. Recommended for students who are planning to take 331 or 332.

MISS EVANS

331 (2) INTERNATIONAL LAW 1

Study of the function of law in the international political system. Intensive study of several important international problems, such as protection of human rights, accommodation of new states to international law, maritime and aerospace jurisdiction, limits of state sovereignty, arms



control, peaceful settlement of disputes, and methods of compliance with international law. Selected current legal issues treated in moot court practice. Open to juniors and seniors who have taken [220] or 221 or 330, or History 305 or 307, and by permission of the instructor to other qualified students.  
MISS EVANS

332 (2) THE SUPREME COURT IN AMERICAN POLITICS 1

Analysis of major developments in constitutional interpretation, the conflict over judicial activism, and current problems facing the Supreme Court; judicial review, the powers of the President and of Congress, Federal-State relations, and individual rights and liberties. Selected current legal issues treated in moot court practice. Open to juniors and seniors who have taken 210 or 211, and by permission of the instructor to juniors and seniors who have taken other courses in political science and/or American history.  
MR. SCHECHTER

336 (1) SEMINAR 1

Advanced intensive study of one problem or a series of related problems. Topic for 1969-70: Poverty and the



law. Open by permission of the instructor to juniors and seniors who have taken 4 units in political science.

MISS EVANS

337 (1) SEMINAR 1

Advanced intensive study of one problem or a series of related problems. Topic for 1969-70: Research in political behavior. Prerequisite: same as for 336.

MR. SCHECHTER

338 (2) SEMINAR 1

Advanced intensive study of one problem or a series of related problems. Topic for 1969-70: The nature and basis of political obligation. Same course as Philosophy 338. Prerequisite: same as for 336.

MR. STETTNER and MR. SHUE

339 (2) SEMINAR 1

Advanced intensive study of one problem or a series of related problems. Topic for 1969-70: Revolutionary change: a comparative study of violent social upheaval in the modern world. Prerequisite: same as for 336.

MR. SEDERBERG

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

MR. ROSENBAUM

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to juniors and seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

A major in political science includes one course at the Grade I level and a course above the Grade I level in at least three of the following fields: American government and



politics, comparative government and politics, international politics, political theory, and public law. A major may be broad in scope, or it may have a special focus, e.g., metropolitan regional problems, Asian, European, or Latin American area studies, international relations, or political ethics, based upon selected courses and independent research. A student interested in urban problems should note Sociology 220, Urban Society.

Graduate work in political science leading to the Ph.D. usually requires a reading knowledge of two foreign languages and, for many specialties, a knowledge of statistical techniques or an introduction to the calculus.

A student participating in the Wellesley Washington Summer Internship Program may arrange with the director to earn credit for independent study. (See p. 28.)

101 (1) (2) INTRODUCTION TO PSYCHOLOGY 1

Study of selected research problems from areas such as personality development, learning, and cognition to demonstrate ways in which psychologists study behavior. Open to all students.

MISS ZIMMERMAN, MRS. CLINCHY

200 (1) (2) RESEARCH METHODS 1

Practice with some major methods used in the study of behavior: observations under non-laboratory conditions, intelligence and personality testing, laboratory experiments. Individual and group projects. Laboratory. Prerequisite: 101.

THE STAFF

201 (1) (2) PSYCHOLOGICAL STATISTICS 1

Training in the use of statistical techniques as they have been adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing an understanding of the possibilities and limitations of the use of statistics in psychology. Prerequisite: 101.

MR. SUNG

207 (1) (2) CHILD PSYCHOLOGY 1

The behavior of normal children. A survey of experimental and clinical studies with special emphasis on theory and

## PSYCHOLOGY

PROFESSORS: Alper, Zimmerman (Chairman)

ASSISTANT PROFESSORS: Sampson,

Furumoto, Cromer, Dickstein, Parlee

INSTRUCTORS: Clinchy, Sung<sup>3</sup>, Cohen,  
Schiavo

LECTURER: Stiver<sup>3</sup>

research in the area of parent-child relationships. Two periods of lecture and one of discussion. Prerequisite: 101.  
MRS. ALPER

209 (1) (2) EXPERIMENTAL PSYCHOLOGY 1

Selected experiments in various fields of psychological investigation with emphasis on learning, perception, and memory. Training in experimental method using animal and human subjects. Laboratory. Prerequisite: 101.  
MRS. FURUMOTO

210 (1) (2) SOCIAL PSYCHOLOGY 1

The individual's behavior as it is influenced by other people. Study of social influence, interpersonal perception, attitude formation, and various forms of social interaction. Prerequisite: 101.  
MR. SCHIAVO

212 (1) (2) PERSONALITY 1

Selected theories and issues in personality. Emphasis on problems of personality assessment, the relationship of theory to observation, continuity and change in personality over time. Theorists typically included are: Allport, Erickson, Freud, Kelly, Sullivan, Rogers. Prerequisite: 101.  
(1) (2) MR. CROMER, MR. COHEN  
(2) MR. DICKSTEIN

217 (2) COGNITIVE PROCESSES 1

Perceiving, remembering, and thinking in children and in adults. Among topics studied: the acquisition and use of concepts, some aspects of the relation between language and thought, rigidity and flexibility in problem-solving, environmental and personal factors related to creative thinking. Prerequisite: 101.  
MRS. CLINCHY

218 (1) PERCEPTION 1

Research and theory in the process of perceiving including some treatment of physiology, and in the development of perception. Prerequisite: 101.  
MRS. PARLEE

219 (1) LEARNING 1

animal levels. Among topics studied: schedules and parameters of reinforcement, discrimination, generalization, conditioned reinforcement, and behavior correlated with negative reinforcement. Prerequisite: 101.

MRS. FURUMOTO

300 (1)\* SEMINAR

1

Topic for 1969–70: Intelligence and personality. Various



concepts and tests of intelligence ; antecedents and modifications of intelligence ; race and intelligence ; relation to personality variables like cognitive styles and defenses. Open by permission to juniors and seniors who have taken 101 and at least 2 units of Grade II. MR. DICKSTEIN

304 (1) PSYCHOLOGICAL AND SOCIOLOGICAL 1  
APPROACHES TO URBAN EDUCATION

An interdisciplinary approach to urban education. Topics include the school curriculum and urban students ; the urban teacher ; the urban community and the school. Open to juniors and seniors who have completed at least 2 units of Grade II in one of the following : education, psychology, sociology, or 1 unit of Grade II in at least two of these, or permission of the instructor.

MRS. SAMPSON  
and MR. LONDON

306 (2) SEMINAR. SOCIAL CLASS, RACE, AND 1  
CHILD DEVELOPMENT

Psychological research and theory concerning the behavior and experiences of children in different social environments and belonging to different races and social classes. Open by permission of the instructor to juniors and seniors who have taken 101, at least 2 units of Grade II including 207, and at least 1 unit of Grade III.

MRS. SAMPSON

309 (1) (2) ABNORMAL PSYCHOLOGY 1

Consideration of major theories of neurosis and psychosis and of psychotherapeutic techniques based on these theories. Illustrative case materials. The contribution of the psychology of abnormal behavior to the study of normal behavior. Open to juniors and seniors who have taken 101 and at least 2 units of Grade II including 207 or 212 or both.

(1) MR. CROMER, MRS. STIVER

310 (2) GROUP DYNAMICS 1

The course involves participation in an unstructured group for the purpose of examining group processes such as leadership, influence, group norms, decision making and intergroup relations. Focus on the interaction between individual behavior and group phenomena. Open by per-

mission of the instructor to juniors and seniors who have taken 101 and at least 2 units of Grade II work in one or more of the following: psychology, political science, sociology, economics. **Not offered in 1969–70.**

311 (2) SEMINAR. SOCIAL PSYCHOLOGY 1

Topic for 1969–70: Person perception. The perception of other people as the basis of social psychological phenomena. How impressions of other people are formed, maintained, and changed. How do we infer another person's motives, emotions, and personality from his behavior? Do the same processes operate when we infer our own motives, emotions, personality? Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 units of Grade II including 210.

MR. SCHIAVO

312 (1) (2) SEMINAR. PERSONALITY 1

Topic for 1969–70: Selected theories and research on psychotherapy including contemporary approaches to the prevention and treatment of abnormal personality functioning. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 units of Grade II including 212.

MR. CROMER

317 (1) SEMINAR. COGNITIVE DEVELOPMENT AND EDUCATION 1

Examination of controversial issues in education from the point of view of current theory and research in cognitive development. Aim will be to formulate and investigate problems relevant to both fields; one example: the relative effectiveness of "learning by doing" vs. learning by listening. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 units of Grade II.

MRS. CLINCHY

325 (1)\* HISTORY AND SYSTEMS OF PSYCHOLOGY 1

The history of selected topics, issues, and systems in psychology with emphasis on reading of primary sources. Among the topics treated: the mental testing movement and the study of individual differences; the concepts of the

reflex and of association. Among the systems treated: Gestalt psychology, behaviorism, and functionalism. Open to juniors and seniors who have taken 101 and at least 2 units of Grade II. **Not offered in 1969-70.**

MRS. FURUMOTO

327 (1) (2) SEMINAR. CHILD PSYCHOLOGY 1

Topic for 1969-70: The relationship between achievement motivation and learning in normal, neurotic, and gifted children. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 units of Grade II including 207 and 212. MRS. ALPER

330 (1) SEMINAR 1

Study of a particular problem or area. Topic for 1969-70: Prosocial behavior: sharing, affiliation, cooperation, helping, empathy, altruism. Childhood origins; assessment in tests and experiments; appearance in different social contexts. Open by permission of the instructor to juniors and seniors who have taken at least 2 units of Grade II.

MR. COHEN

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. MRS. FURUMOTO, MRS. PARLEE

350 (1) (2) RESEARCH OR INDEPENDENT STUDY 1 or 2

Open by permission of the department chairman to qualified juniors and seniors.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

A major in psychology must include either 101 or [102]; **two** of the following: 200, 201, 209; **one** of the following: 207, 210, 212; and **one** of the following: [216], 217, 218, 219. Students considering a major in psychology are advised to elect 101 and either 200 or 209 as early as possible in their college careers.



104 (1) STUDIES IN THE OLD TESTAMENT 1

Selective study of historical, wisdom, prophetic and apocalyptic literature from the Old Testament. Introduction to the method of literary and historical criticism. Consideration of the Biblical tradition in its relation to the individual and society. Open to all students. THE STAFF

105 (2) STUDIES IN THE NEW TESTAMENT 1

Consideration of the Christian literary genres of gospel, epistle, and apocalypse as reflective of Jesus of Nazareth and of the early Christian faith and social order. Reference to relevant Jewish literature from the early Christian period. Open to all students. THE STAFF

106 (1) STUDIES IN RELIGION 1

Images of man, God, and society in western religious traditions: Judaism, Roman Catholicism, Eastern Orthodoxy, and Protestantism. Lectures and discussion sections. Open to all students. THE STAFF

## RELIGION AND BIBLICAL STUDIES

PROFESSORS: Lacheman, Gale, Denbeaux<sup>4</sup>, Mowry<sup>4</sup>

ASSOCIATE PROFESSOR: Johnson (Chairman)

ASSISTANT PROFESSORS: Vanderpool, Green, Vanorsdall

INSTRUCTOR: Wallwork

LECTURERS: Smith<sup>3</sup>, Santmire, Williams<sup>3</sup>



107 (2) RELIGION IN THE MODERN WESTERN WORLD 1

An examination of selected interpretations of religion developed from the Enlightenment to the present. Criticisms and reconstructions of western religious traditions in relation to formative social and intellectual movements. Readings include works of Darwin, Teilhard de Chardin, Marx, Reinhold Niebuhr, Freud, and Tillich. Lectures and discussion sections. Open to all students. THE STAFF

150 (1) (2) COLLOQUIUM 1

For description of topics and directions for applying, see pp. 181–182. Open by permission to a limited number of freshman and sophomore applicants.

203 (1-2) CLASSICAL HEBREW 2

The elements of Biblical Hebrew grammar, syntax, and vocabulary. Readings of selections from the Old Testament. Open by permission of the instructor. MR. LACHEMAN

204 (1) THE BEGINNINGS OF CHRISTIANITY 1

A study of the emergence of the Christian movement with special emphasis upon those experiences and convictions which determined its distinctive character. Intensive analysis of the thought of the Apostle Paul. Some study of other New Testament documents, especially the *Gospel of John*, and of non-canonical materials pertaining to the Christian Church of the first and second centuries. Prerequisite: 105. MR. GALE

206 (1) THE RENEWAL OF JUDAISM IN THE POST-EXILIC PERIOD 1

Prophetic and priestly responses to the crises in Judaism from the exile to the first century B.C. Prerequisite: 104. MR. LACHEMAN

208 (1) (2) CHRISTIAN ETHICS 1

A study of texts selected from the history of western ethics. Focus on Christian sources in relation to their critics in classical and contemporary periods. Open to freshmen and sophomores who have taken one course in

the department and to juniors and seniors without prerequisite. MR. JOHNSON

213 (2) JUDAISM FROM PHILO TO SPINOZA 1

The history of Judaism in its relation to the Graeco-Roman world, Christendom and Islam. Reading (in translation) of significant portions of Talmudic, Midrashic, poetic, and speculative literatures. Prerequisite: 104 or 106.

MR. LACHEMAN

216 (1) THE FORMATION OF CLASSICAL CHRISTIAN THOUGHT 1

The interaction of Biblical and Graeco-Roman traditions in the career of Christian thought from the Church Fathers through the Middle Ages. Study and evaluation of formative writings, including Augustine and Aquinas, in light of their historical settings and their legacy in the present. Prerequisite: same as for 208.

MR. GREEN

217 (1) PROTESTANTISM 1

An intellectual history of Protestantism from its origins in the 16th century to the beginning of the 20th century. Continuities and diversities within the Protestant heritage. Readings from Luther, Calvin, Fox, Wesley, Coleridge and others. Prerequisite: same as for 208.

MR. VANDERPOOL

218 (2) AMERICAN RELIGIOUS HISTORY 1

An examination of American religious traditions from the Colonial beginnings to the present. Special attention to the interaction of religion with political, social and intellectual history and to the diverse origins, conflicts, and contributions of Protestant groups, sects, Roman Catholicism, and Judaism. Open to freshmen and sophomores who have taken one course in the department or in American history, and to juniors and seniors without prerequisite.

MR. VANDERPOOL

219 (2) CONTEMPORARY CHRISTIAN THOUGHT 1

An examination of formative developments in contemporary Protestant and Catholic thought, studying the contributions to the understanding of God and man by

such theologians as Barth, Bonhoeffer, Rahner and Bultmann. Prerequisite : same as for 208. MR. GREEN

220 (2) RECENT TRENDS IN CATHOLICISM 1

A theological examination of major trends in Catholic thought and life especially as manifested by the documents of the Second Vatican Council. An exploration of factors involved such as Biblical studies, historical investigations, philosophical insights, scientific discoveries, ecumenical dialogue, and structural experimentation. An evaluation of the Catholic contribution to the religious development of man. Prerequisites : same as for 208. FATHER SMITH

225 (1) ISRAEL AND HER NEIGHBORS 1

A study of the common patterns of thought and religion in the ancient Near East, and their relation to Israel's religion as reflected in archaeology and literature. Prerequisite : 104. MR. LACHEMAN

228 (1) RACE, RELIGION, AND SOCIAL CHANGE 1

Analysis of the black man's religion in the context of American society and culture including its relation to the tradition of social protest. Consideration of the influence of such leaders as Frederick Douglass, W. E. B. DuBois, Malcolm X, Martin Luther King, Jr. Open to students who have taken one course in the department or in sociology or anthropology. MR. WILLIAMS

251 (1) THE RELIGIONS OF EAST ASIA 1

Topic for 1969-70 : Readings in Confucianism, Taoism, Chinese and Japanese Buddhism, and Shinto. Prerequisite : 106 or by permission of the instructor. MR. JOHNSON

252 (2) ISLAM 1

A study of Islam in its major periods. A consideration of the religious influences on Mohammad and his contribution in the Koran to the history of religions. An examination of the medieval Moslems, philosophers and mystics. The social role of Islam in the Middle East, India, Southeast Asia, and Africa. Modern re-evaluation and reform of the tradition. Prerequisite : 106 or by permission of the instructor. **Not offered in 1969-70.** MISS MOWRY

306 (2) SEMINAR. THE OLD TESTAMENT 1

A systematic study of important religious ideas of the Old Testament. Prerequisite: 206. MR. LACHEMAN

307 (2) SEMINAR. THE NEW TESTAMENT 1

An intensive study of selected New Testament issues. Prerequisite: 204. MR. GALE

311 (1) THEOLOGY AND ITS EXPRESSION IN LITERATURE 1

Topic for 1969–70: The representation of the self in such religious writings as the Bible and St. Augustine. Open to students who have taken one course in the department and one Grade II course in literature. MR. GOLD

312 (1)\* SEMINAR. MEDIEVAL RELIGIOUS THOUGHT 1

Topic for 1970–71 to be announced. Prerequisite: 216 or History 219. **Not offered in 1969–70.** MR. JOHNSON

313 (1)\* SEMINAR. REFORMATION RELIGIOUS THOUGHT 1

Subject for 1969–70: Luther. Prerequisite: 216 or 217 or History 217. MR. VANDERPOOL

315 (1) SEMINAR. THEOLOGICAL METHODOLOGY 1

The creative response of a major theologian to his intellectual tradition and to the problems of his historical context. Topic for 1969–70: Dietrich Bonhoeffer. Prerequisite: permission of the instructor. MR. GREEN

316 (2) SEMINAR. CHRISTIAN ETHICS 1

An intensive study of one ethical problem or set of related problems with readings in relevant theological sources. Prerequisite: 208. MR. WALLWORK

317 (1) KIERKEGAARD 1

An examination of the writings of Soren Kierkegaard in

relation to their theological, philosophical, and cultural origins. Open to juniors and seniors who have taken a Grade II course in the department or Philosophy [208].  
MR. WALLWORK

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1)(2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to juniors and seniors by permission.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Students majoring in this department may concentrate in either Biblical studies or religious studies.

The concentration in Biblical studies shall include the following: 104 and 105, either 306 or 307, and one of the following: 213, 216, 217, 220, 251, and 252.

The concentration in religious studies shall include the following: 106 and 107; either 104 or 105; one of the following: 312, 313, 315; one of the following: 213, 216, 217, 220, 251, 252.

Majors who have taken a colloquium may substitute it for one of the above requirements by consultation with the department.

Students concentrating in Biblical studies are reminded of the opportunity of studying either Hebrew or Greek. Greek 100 (2) is particularly valuable for the study of the New Testament.

## RUSSIAN

PROFESSOR: Lynch (Chairman)  
ASSOCIATE PROFESSOR: Pacaluyko  
INSTRUCTOR: O'Connor<sup>3</sup>

100 (1-2) ELEMENTARY RUSSIAN 2

Grammar, oral and written exercises, reading of short stories. Three periods.

MRS. LYNCH  
MISS PACALUYKO



200 (1-2) INTERMEDIATE RUSSIAN 2

Reading with emphasis on vocabulary building ; review of grammar ; composition and oral expression. Discussions based on selected reading in classical and modern Russian literature and in Russian history and culture. Prerequisite : 100 or permission of the instructor.

MISS PACALUYKO

201 (1) RUSSIAN LITERATURE IN TRANSLATION I 1

For description and prerequisite, see Extradepartmental 201.

202 (2) RUSSIAN LITERATURE IN TRANSLATION II 1

For description and prerequisite, see Extradepartmental 202.

300 (1-2) ADVANCED RUSSIAN 2

Studies in the structure of the Russian language. Reading



of literary and historical works. Regular written and oral reports on individual selected topics. First semester may be taken independently. Prerequisite: 200. MRS. LYNCH

311 (1)\* RUSSIAN LITERATURE FROM ITS BEGINNINGS TO THE SEVENTEENTH CENTURY 1

Discussion of the Byzantine, Western, and folk influences in the chronicles and epics of the Kievan and Moscovite periods. Reading of the *Igor Tale*, selections from *Primary Chronicle*, *Zadonshchina*. Prerequisite: 300.

MRS. LYNCH

312 (2)\* RUSSIAN PROSE OF THE NINETEENTH CENTURY I 1

The first half of the 19th century from Pushkin to Goncharov. Prerequisite or corequisite: 300.

MISS PACALUYKO

313 (1)\* RUSSIAN LITERATURE FROM THE SEVENTEENTH CENTURY TO PUSHKIN 1

Discussion of emerging secular trends in language and in choice of literary subjects. Reading of works by Ivan IV, Avacum, Lomonoson, Radishchev, Karamzin, Krylov, and Pushkin. Prerequisite or corequisite: 300. **Not offered in 1969-70.**

MRS. LYNCH

314 (2)\* RUSSIAN PROSE OF THE NINETEENTH CENTURY II 1

Trends in the second half of the 19th century and the early 20th century. Emphasis on works by Turgenev, Aksakov, Saltykov-Shchedrin, Chekov, and Bunin. Prerequisite or corequisite: 300. **Not offered in 1969-70.**

MISS PACALUYKO

315 (1)\* DOSTOEVSKI AND TOLSTOY 1

Study of major works with emphasis on the novels. Prerequisite or corequisite: 300.

MISS PACALUYKO

316 (2)\* RUSSIAN POETRY 1

Discussion of major trends in Russian poetry with emphasis on works by Pushkin, Lermontov, Tjutchev, Blok,

Majakovsky, Pasternak. Prerequisite or corequisite: 300.  
**Not offered in 1969–70.** MISS PACALUYKO

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to qualified students.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Course 100 counts for the degree but does not count toward the major. The major should ordinarily include 311, 312, 313, 314, and either 315 or 316. History 209 and 312 are strongly recommended as related courses.

Students interested in majoring in Russian should consult the chairman of the department as soon as possible.

Students who wish to do graduate work in Russian are advised to begin or to pursue the study of at least one other modern language.

A proficiency in at least one classical language is highly advisable for those who are planning to do graduate work in Slavic languages and literatures.

102 (1) (2) INTRODUCTION TO SOCIOLOGY 1

Comparative study of different levels of social structure. Communities ranging from rural to urban: the small town, the ghetto, suburbia. Small groups, institutions, and societies. Socialization, social control and social change. Emphasis on independent projects and student panel discussions. Open to all students. THE STAFF

104 (1) (2) INTRODUCTION TO ANTHROPOLOGY 1

Consideration of man's place in nature, his physical

## SOCIOLOGY AND ANTHROPOLOGY

PROFESSORS: Stoodley, Eister  
ASSOCIATE PROFESSOR: Shimony  
(Chairman)

ASSISTANT PROFESSORS: Giele, London,  
Henderson<sup>3</sup>  
INSTRUCTOR: Cordova<sup>3</sup>

history and physical varieties. Brief survey of archaeology and linguistics. The nature of culture with examples primarily from primitive societies. Open to all students.

MRS. SHIMONY

202 (1) (2) SOCIOLOGICAL THEORY 1

Major issues in current theory about social interaction, group structure, conflict and social change. Development of sociology as a field. Examination of the contributions to sociological theory of Comte, Spencer, Marx, Durkheim, Max Weber, Georg Simmel, and others. Open to all students who have taken 102 or 104, or permission of the instructor.

MR. EISTER

203 (2) SOCIAL DISORGANIZATION 1

Disorganization as an important aspect of social process. Focus on juvenile delinquency and mental impairment in the United States and in cross-cultural perspective. Research projects encouraged in these fields and in other areas of disorganization. Prerequisite: same as for 202.

MR. STOODLEY

204 (1) SOCIETIES AND CULTURES OF AFRICA 1

Comparative study of distinctive kinship, political, economic, and other social institutions of several major cultures of Africa for which there are anthropological reports. Consequences of culture contact among selected tribes and between indigenous and Asian or European cultures. Prerequisite: same as for 202.

MRS. SHIMONY

205 (1)\* SOCIAL ANTHROPOLOGY 1

Comparative study of social, political, and economic organization of primitive societies. Stability and change of primitive groups in contact with western culture. Application of anthropology to the problems of underdeveloped countries. Not open to students who have taken Extra-departmental [222]. Prerequisite: same as for 202.

MRS. HENDERSON

206 (2) SOCIOLOGY OF EDUCATION 1

For description and prerequisite, see Education 206.

MR. SIPPLE

210 (2) RACIAL AND ETHNIC MINORITIES 1

An analysis of the problems of racial and ethnic groups in American and other societies. Systematic study of adjustment mechanisms of selected racial, religious, and immigrant minorities with special emphasis on black-white relations. Prerequisite: same as for 202.

MRS. SHIMONY

214 (2) SOCIAL STRATIFICATION AND POWER 1

The nature of the class system in the United States and in other societies. Social problems created by stratification. Roles of the disadvantaged and the privileged in reform movements and revolutions. Prerequisite: same as for 202.

MRS. GIELE

220 (1) URBAN SOCIETY 1

Origins and development of cities. Theories of urbanization. Problems and future trends relating to the city as a social organization. Prerequisite: 102 or 104 or permission of the instructor.

MR. LONDON

222 (1) FAMILY AND COMMUNITY 1

Family life in several periods and social milieux. Its effect on the roles of women and children. The impact of industrialization and the changing relationship between the family and institutions of the community. Prerequisite: same as for 202.

MRS. GIELE

228 (1) RACE, RELIGION AND SOCIAL CHANGE 1

For description and prerequisite, see Religion and Biblical Studies 228.

231 (1) SOCIETY AND SELF 1

Social structure and process with relation to the self. Social contributions and impediments to individual experience. Institutionalization of goals, attitudes, and ideas. Social factors associated with conformity, innovation, and deviance. Prerequisite: same as for 202.

MR. STOODLEY

235 (2) PUBLIC OPINION AND MASS MEDIA 1  
OF COMMUNICATION

Television, magazines, newspapers, the underground press, *avant-garde* publications, and the cinema as sources, instruments and objects of change in American society. Elements of communication process; symbols and their relation to cognition and persuasion. Prerequisite: same as for 202. MR. STOODLEY

250 (2) METHODS OF SOCIAL RESEARCH 1

An introduction to the techniques for collecting and analyzing social data including sampling. Consideration of ways in which research is designed to test hypotheses. Field experience in interviewing; coding and data analysis. Prerequisite: same as for 202. MR. LONDON

301 (2) ANTHROPOLOGICAL THEORY 1

History of ethnological theory. Examination of current evolutionary and functional theories of culture. Discussion of the relation between personality and culture. Problems of method in anthropology. Prerequisite: 2 units of Grade II work or permission of the instructor. MRS. HENDERSON

302 (1) SOCIAL AND CULTURAL CHANGE 1

Review of leading theories about the nature and sources of social change with special reference to the Middle East. Analysis of change in the social organization, cultural patterns, and social behavior of people in selected countries. Prerequisite: same as for 301. MR. EISTER

304 (1) PSYCHOLOGICAL AND SOCIOLOGICAL 1  
APPROACHES TO URBAN EDUCATION

An interdisciplinary approach to urban education; topics include the school curriculum and urban students; the urban teacher; the urban community and the school. Same course as Psychology 304. Open to juniors and seniors who have completed at least 2 units of Grade II in one of the following: education, psychology, sociology; or 1 unit of Grade II in at least two of these; or permission of the instructors. MR. LONDON and MRS. SAMPSON





310 (2) GROUP DYNAMICS 1

For description and prerequisite, see Psychology 310.

312 (2) SEMINAR. RELIGION AND SOCIETY 1

Readings and research on problems of defining and assessing the influence of religious organizations and beliefs in contemporary society. Prerequisite: same as for 301. MR. EISTER

315 (1) SEMINAR. SOCIAL AND POLITICAL MOVEMENTS 1

Topic for 1969-70: Student activism. Prerequisite: same as for 301. MRS. GIELE

320 (2) SEMINAR. URBAN SOCIAL SYSTEMS 1

Impact of the urban environment upon selected social systems. Prerequisite: 220. MR. LONDON

323 (1) SEMINAR. DEVIANCE 1

Topic for 1969-70: Social justice for and rehabilitation of the delinquent. Prerequisite: same as for 301. MR. STOODLEY

332 (1) SEMINAR 1

Topic for 1969-70: Africans and Afro-Americans in the old world and in the new. Same course as History 332. Prerequisite: open to juniors and seniors by permission of the instructors. MRS. SHIMONY and MRS. PREYER

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates. MRS. GIELE

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open to juniors and seniors by permission.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

### Directions for Election

Students considering a major may consult any member of the department concerning sequences of courses in the field and related courses in other departments. At least one course in anthropology is advised. 202 should be included in the major, preferably not later than the junior year. Students planning graduate work in sociology are urged to elect 250 and/or a course in statistics.

## SPANISH

PROFESSORS: Ruiz-de-Conde (Chairman),  
Lovett

INSTRUCTORS: Gostautas, Benson

Courses of the department are normally conducted in Spanish; oral expression is stressed.

The department reserves the right to place a new student in the course for which she seems best prepared regardless of the number of units she has offered for admission.

Qualified students may be recommended to spend the junior year in Spain. See p. 29.

100 (1-2) ELEMENTARY SPANISH 2

Grammar, reading, composition, dictation, practical conversation on everyday life; short lectures in Spanish.

Stress on the intensive oral approach. Three periods. Open to students who do not present Spanish for admission.

THE STAFF

102 (1-2) INTERMEDIATE SPANISH 2

Review of grammar and related language skills with intensive oral-aural practice, reading (first semester from contemporary Hispano-American authors; second semester from 19th century Spanish literature) with emphasis on vocabulary building, oral, and written expression. Three periods. Prerequisite: 2 admission units in Spanish or 100.

THE STAFF

104 (1-2) REPRESENTATIVE MODERN AUTHORS 2

Analysis of selected literary works of the 19th and 20th centuries: prose, poetry, and drama. Constant practice in the written and spoken language. Prerequisite: [101] or 3 admission units in Spanish, or permission of the instructor.

THE STAFF



201 (2) ORAL AND WRITTEN COMMUNICATION 1

Practice in conversation and writing to increase fluency and accuracy in the use of idiomatic Spanish. Prerequisite: 102 or [103] or 4 admission units in Spanish.

MR. LOVETT, MR. GOSTAUTAS

203 (1) MODERN SPANISH LITERATURE: POETRY AND THE THEATRE 1

From "la Generación del '98" to the present. Authors studied include Unamuno, Antonio Machado, and Garcia Lorca. Prerequisite: same as for 201. MR. GOSTAUTAS

204 (2) MODERN SPANISH LITERATURE: THE NOVEL AND THE ESSAY 1

From "la Generación del '98" to the present. Authors studied include Unamuno and Ortega. Prerequisite: 203, or by permission of the instructor, or 102 or [103] or 4 admission units in Spanish. MR. LOVETT

205 (1) INTRODUCTION TO HISPANO-AMERICAN LITERATURE 1

An historical consideration of Hispano-American culture with emphasis on literature and other arts. Prerequisite: same as for 201. MR. GOSTAUTAS

206 (1-2) MAIN CURRENTS OF SPANISH LITERATURE 2

The study of outstanding works and themes which express the Spanish conception of man and the world. Novels, dramas, and poetry chosen from significant periods of Spanish literature. Prerequisite: same as for 201.

MRS. RUIZ-DE-CONDÉ

301 (1)\* DRAMA OF THE SEVENTEENTH CENTURY 1

The characteristics of the Spanish drama of the Golden Age. Analysis of ideals of this period as revealed in the drama. Representative masterpieces of Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón. Open to juniors and seniors who have taken 2 units of Grade II including 1 unit in literature. MR. LOVETT

302 (1)\* CERVANTES 1

Study of Cervantes and his work, representing the culmination of the novel in Spain. Reading of *Novelas Ejemplares*; analysis and discussion of *Don Quijote*. Prerequisite: same as for 301. **Not offered in 1969-70.**  
MRS. RUIZ-DE-CONDÉ

306 (2)\* MODERN HISPANO-AMERICAN LITERATURE I 1

Study of the main literary currents in Mexico; analysis of present-day trends in prose and poetry. Prerequisite: same as for 301. Not open to students who have taken [202].  
MR. GOSTAUTAS

307 (2)\* MODERN HISPANO-AMERICAN LITERATURE II 1

Study of the literature of Argentina; analysis of present-day trends in prose and poetry. Prerequisite: same as for 301. **Not offered in 1969-70.**

310 (2)\* SEMINAR 1

Topic for 1970-71 to be announced. Prerequisite: 203 and 204, or 206 or permission of the instructor. **Not offered in 1969-70.**  
MRS. RUIZ-DE-CONDÉ

311 (2)\* SEMINAR. SPANISH POETRY 1

Topic for 1969-70: Studies in contemporary Puerto Rican writers. Prerequisite: same as for 310.  
MRS. RUIZ-DE-CONDÉ

345 (2) SENIOR MAJOR SEMINAR 1

Required in the senior year of all majors except honors candidates.  
MRS. RUIZ-DE-CONDÉ

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission or to seniors who have taken 2 units of Grade III work in the department.

370 (1-2) HONORS RESEARCH 2

Required of all honors candidates in the department.

## Directions for Election

Course 100 counts for the degree but does not count toward the major.

Students who begin with 100 in college and who wish to major should consult the chairman of the department in the second semester of their freshman year.

The major should ordinarily include 201, 206, 301, 302, 2 additional units of Grade III literature, and History 214. Extradepartmental 330 is recommended as related work.

Students interested in Latin American studies are invited to confer with the chairman to plan a major in Spanish with emphasis on Latin America.

## EXTRADEPARTMENTAL COURSES

The following sections include several separate courses of interest to students in various disciplines and four major programs which involve work in more than one department.

### 101 (1)\*\* HELLENIC HERITAGE 1

Reading from the works of Homer, the Greek dramatists, Thucydides, and Plato. An introduction to classical literary forms and ideas that continue to concern the western world. Open to all students. MISS McCARTHY

### 104 (2)\*\* CLASSICAL MYTHOLOGY 1

The more important classical myths read in English translations of Greek and Latin authors; their religious origins; their expression in ancient literature and art; their later influence. Open to all students.

MRS. LEFKOWITZ

### 108 (2)\*\* INTERPRETATIONS OF MAN IN WESTERN LITERATURE 1

Representative views of the nature of man reflected in a selection of major works of European literature. The readings, chosen to emphasize the classical heritage, will include works of Vergil, Augustine, Dante, Machiavelli, Montaigne, Milton, Goethe, and Eliot. Open to sophomores, juniors, and seniors, and to freshmen who have taken Extradepartmental 101. A reading list will be provided for



upperclass students who have not taken 101 or its equivalent.  
MR. LAYMAN

110 (1) (2) INTRODUCTION TO AUTOMATIC COMPUTATION 1

Modeling of computational processes as sequential algorithms. Formal and informal techniques for the representation of these algorithms and their implementation on digital computers. Experience in programming and running of elementary problems in an algebraic and an assembler language. Open to all students.  
MR. ANGER

201 (1)\*\* RUSSIAN LITERATURE IN TRANSLATION I 1

Russian literature from its beginnings to the middle of the 19th century. The focus of the course is on the major prose of the first half of the 19th century. The authors to be considered include Pushkin, Lermontov, Gogol, Goncharov, Turgenev, and Dostoevsky. Open to juniors and seniors or by permission of the instructor.

MRS. O'CONNOR

202 (2)\*\* RUSSIAN LITERATURE IN TRANSLATION II 1

Russian literature from the second part of the 19th century to the present with emphasis on the works of Tolstoy, Chekhov, Sologut, and such Soviet writers as Babel, Olesha, Pasternak, and Bulgakov. Open to juniors and seniors.

MRS. O'CONNOR

205 (1) INTRODUCTION TO THE AFRO-AMERICAN EXPERIENCE 1

The African background of black Americans, the evolution of the institution of slavery in the New World, the black presence in and significance to the development of American society since the Civil War. Prerequisite: 1 unit in Group B. **Not offered in 1969-70.**

214 (2) EDUCATION IN THE METROPOLIS 1

Examination of curricular planning in urban and suburban settings. Prerequisite: 1 unit in Group B.

MR. LONDON

216 (1) APPLICATIONS OF MATHEMATICS 1  
IN THE PHYSICAL SCIENCES I

Applications of calculus. Functions of several variables. Partial differentiation and multiple integration. Two periods weekly with a third period every other week. Prerequisite: Mathematics [109] or [200 (1)] or 111, or the equivalent.  
MR. ZIMMERMANN

217 (2) APPLICATIONS OF MATHEMATICS 1  
IN THE PHYSICAL SCIENCES II

Vector analysis. Differential equations arising in the sciences. Introduction to probability and statistics. Two periods weekly with a third period every other week. Prerequisite: Extradepartmental 216; or by permission of the instructor, Mathematics [201] or [204] or 208, or the equivalent.  
MR. ZIMMERMANN

219 (2)\*\*\* HISTORY OF SCIENCE II 1

Topic for 1969-70: Stability and change as central themes in scientific thought in the 19th century. Four laboratory-demonstration sessions during the semester. Open to students who have completed 1 unit of laboratory science and 1 unit of history or philosophy.

MISS WEBSTER

226 (1) ITALIAN HUMANISM 1

Works of Petrarch and Boccaccio, and literature and thought of other 14th and 15th century humanists. Emphasis on class discussion of literary texts focusing on such topics as the new self-awareness, the meaning of the classical past, the active versus the contemplative life, the roles of fortune and human initiative in governing worldly affairs (or how free is man?), the purposes and methods of a liberal education. Open to sophomores by permission and to juniors and seniors without prerequisite.

MR. Oldcorn

227 (2) THE ITALIAN RENAISSANCE 1

Literature and thought in the 16th century: the High Renaissance, Mannerism, and the Counter-Reformation. Reading and discussion of works by representative authors: Ariosto, Castiglione, Machiavelli, Guicciardini, Michel-

angelo, Aretino, Torquato Tasso, Giordano Bruno. Open to sophomores by permission and to juniors and seniors without prerequisite.  
MR. OLDCORN

310 (1) A LIBERAL ARTS EDUCATION: THE CRITIQUE OF AN IDEAL 1

An examination of the validity of "liberal education" as traditionally defined, and of the appropriateness of the ideas inherent in that ideal to the issues presently confronting The Liberal Arts College, e.g., presentism, detachment vs. commitment, thought vs. action. Open to fifteen qualified juniors and seniors. Students will be selected with a view to ensuring representation from a variety of disciplines.  
MRS. STADLER

330 (2) SEMINAR. COMPARATIVE FOREIGN LITERATURE 1

Topic for 1969–70: The theatre since 1945. Selected works of French, German, English, and American playwrights. Open by permission to junior and senior majors in French, German, Greek, Italian, Latin, Russian, or Spanish who have completed at least 2 units of Grade III work in literature in the major. Also open to qualified majors in English.  
MR. STAMBOLIAN

Although the College does not offer a major, students may elect as many as 6 units in Chinese.

100 (1-2) ELEMENTARY CHINESE 2

Introduction to modern spoken and written Chinese. Four periods. Open to sophomores, juniors, and seniors, and to freshmen by permission of the instructor  
MRS. LIN, MRS. YU

200 (1-2) INTERMEDIATE CHINESE I 2

Reading with emphasis on vocabulary building; review of sentence structure, composition, and oral expression. Discussion of current events and cultural topics. Four periods. Prerequisite: 100 or permission of the instructor.  
MRS. LIN, MRS. YU

## EXTRADEPARTMENTAL PROGRAMS

### Chinese

DIRECTOR: Lin  
LECTURER: Yu

Reading and discussion in Chinese of selections from contemporary writings. Some study of the forms occurring in passages from the classics quoted in vernacular texts. Three periods. Prerequisite: 200 or permission of the instructor. MRS. LIN

350 (1) (2) RESEARCH OR INDIVIDUAL STUDY 1 or 2

Open by permission to qualified students.



Although the College does not offer a major, students may elect as many as 6 units in theatre studies.

A student who wishes to pursue an interest in theatre should consult the Director of Theatre Studies about course selection which will emphasize dramatic literature in English and foreign languages together with the history and philosophy of art.

## Theatre Studies

DIRECTOR: Barstow

### 203 (1)\* PLAYS, PRODUCTION AND PERFORMANCE 1

Representative plays of major eras in the history of the theatre considered in terms of both the original conditions of performance and present-day stagecraft; particular attention to direction, design, and acting as these complete the creation of the dramatist. Open to sophomores who have taken a college literature course and to juniors and seniors without prerequisite. **Not offered in 1969–70.**

MR. BARSTOW

### 207 (1)\* EARLY MODERN THEATRE 1

Ibsen, Strindberg, and Chekhov, and their forerunners and immediate successors; particular attention paid to theatrical conditions, producers, designers, and actors associated with stage production of the plays studied. Prerequisite: 203, or permission of the instructor. Open to juniors and seniors without prerequisite.

MR. BARSTOW

### 208 (2)\* CONTEMPORARY THEATRE 1

Mid-20th century dramatists and production styles; plays, producers, designers, and actors significant in the development of contemporary theatre. Prerequisite: same as for 207.

MR. BARSTOW

### 210 (1-2)\* HISTORY OF THE THEATRE 2 (FIFTH CENTURY B.C. TO THE PRESENT)

Study of theatre structures, crafts, and practices with emphasis on acting and production styles as these relate to major developments in dramatic literature. Prerequisite: same as for 207. Either semester may be elected independently by permission of the instructor. **Not offered in 1969–70.**

MR. BARSTOW

Study of production of Shakespeare's plays in the theatre; particular attention to Elizabethan stagecraft and to contemporary production styles; emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite: 203 and English 215 or 309 or permission of the instructor. MR. BARSTOW

## INTERDEPARTMENTAL MAJORS

### Afro-American Studies

DIRECTOR: Preyer

A major in Afro-American Studies provides opportunity for cross-departmental study of the African background of American black culture, the black experience in the context of American historical, political, and social institutions, and of the contemporary conditions of blacks in America. Students, in consultation with the director, may construct a major adapted to individual interests. Normally at least 4 units above the 100 level are to be elected in one of the following: economics, history, political science, sociology and anthropology; and at least 4 additional units above the 100 level of related work. Two of the eight courses must be at the Grade III level.

### Classical Archaeology

DIRECTOR: Vermeule

An interdepartmental major in classical archaeology gives opportunity for a study of classical civilization through its art, literature, and history with emphasis on either the Greek or Roman period.

The student's program should normally include ancient history (2 units), art (4 or 5 units), Greek or Latin language and literature (6 or 7 units); independent study (1 or 2 units) of an archaeological topic, preferably correlating work in art and literature or history (345, 350, 370). In addition to the work elected in either Greek or Latin the candidate must give evidence of a working knowledge of the second language. Basic reading knowledge of German or French is recommended.

Programs will be adapted to individual interests within the field.

### Molecular Biology

DIRECTOR: Hicks

The Departments of Biological Sciences and Chemistry offer an interdepartmental major in molecular biology which gives opportunity for advanced study of the chemistry of biological systems.



In addition to 1 or 2 units of biochemistry ([321], 322, 323), the area of concentration will include 5 units of chemistry ([103] or 106, 107, 201, 202, 301), 5 units of biology including in general 2 units of Grade III, Physics 100, 103, or 105, and Mathematics [109], 111, or the equivalent. Students who exempt any units of Grade I may substitute further units in biology, chemistry, mathematics, or physics.

An interdepartmental major in United States Studies allows opportunity for cross-departmental study of American art and literature and of American historical, political, and social institutions. Students, in consultation with an adviser, may construct a major adapted to individual interests. Normally at least 4 units above the Grade I level are to be elected in one of the following: economics, English, history, political science, sociology and anthropology; and at least 4 additional units above the Grade I level in these departments or in art or religion and Biblical studies. Two of the eight courses must be at the Grade III level.

## United States Studies



# FRESHMAN- SOPHOMORE COLLOQUIA

The colloquia are designed for freshmen and sophomores who are interested in concentrated study of a significant, well-defined topic. They offer students the opportunity to work in small groups in close association with faculty members. Most are open without prerequisite though a few presuppose some earlier study of the field either in secondary school or in a college course. They are similar to seminars in method and approach in that they stress independent work, discussion, and student reports.

Each colloquium counts as a 1 unit course. Except for Extradepartmental 150 each may be elected to satisfy in part one of the distribution requirements. Since enrollments are limited, a student may not ordinarily enroll in more than one colloquium. She may, however, apply for more than one, indicating her first and second choices.

Incoming freshmen may obtain application forms from the class dean, sophomores from the department chairman. If a colloquium is oversubscribed the chairman or instructor, in consultation with the class dean, will decide which applicants will be accepted.

## Topics for 1969-70

BIOLOGICAL SCIENCES 150 (2) 1

Laboratory or field experimentation combined with readings and discussions. Student reports. Prerequisite: 1 unit of college biology or strong secondary school preparation.

Biological associations. Structural, functional, nutritional, and molecular aspects of the diverse relationships of microorganisms with plants, animals, and dissimilar microbial forms. Laboratory study of selected symbiotic and antagonistic associations. MRS. WYCKOFF

ENGLISH 150 (1) (2) 1

Close analysis of literary texts with attention to historical contexts as well as literary traditions and relationships.

(1) 1

- a. The problem of identity in three novels: *Great Expectations*, *Middlemarch*, and *Nostramo*. A study of developing characters utilizing historical backgrounds, structural and technical elements, and critical analyses. Oral and written reports. MISS ADAMS

1

- b. The themes of Cruelty, Folly, and Debasement. A study of these and kindred themes in such texts as Shakespeare's *King Lear*, Jonson's *The Alchemist*, Swift's *Gulliver's Travels*, Gogol's *Dead Souls*, Faulkner's *The Hamlet*, Babel's *Short Stories*, John Barth's *The End of the Road*, and selected contemporary poems.

MR. PINSKY

(2)

- a. Black literature in America. 1  
MISS CORSA, MR. ASWELL, MISS WALTON

- b. Same as 150b (1). 1  
MR. PINSKY



EXTRADEPARTMENTAL 150 (1)

1

(1) History of Science I. The Newtonian world view—What was it? How did it 'come to be? What has it meant? An introduction to certain key astronomical and physical observations and experiments which gave rise to some of our fundamental concepts about the structure of the universe. In addition to a study of these views as they developed from classical times to the 17th century, considerable attention will be given to the effect of the new Experimental Philosophy of the 17th century on the scientific, intellectual, and social climate of the times as well as on man's view of himself. MISS WEBSTER

FRENCH 150 (1) (2)

Prerequisite: 104 for sophomores or four admission units for freshmen.

(1)

1

The "New Novel." Study of recent experiments in French fiction with some discussion of theatre and film. Emphasis on the works of Robbe-Grillet, Sarraute, Butor, and Beckett. In addition to oral reports and papers students will be encouraged to write short creative pieces.

MR. STAMBOLIAN

(2)

1

The "explication de texte" as a technique and an art. A workshop on the variety of critical methods by which short passages can be read in depth. Selected texts from various epochs and genres. Since the aim of the colloquium is the acquisition of a method, the active participation of each individual is imperative. MISS LAFEUILLE

HISTORY 150 (1) (2)

(1)

1

- a. Imperialism in modern Asian history with special attention paid to East Asia. After introductory reading in comparative history and in various theories of imperialism, the class (collectively and individually) will explore the impact of western imperialism in China and Japan and of Japanese imperialism in Korea. One aim of the course will be to test the adequacy of the more prominent general theories of imperialism as ex-

planations of imperialism "as it was" in East Asia. Another aim will be to explore the purposes, procedures, and problems of comparative history.

MR. COHEN

1

- b. Changing modes of political realism in foreign policy as reflected in the statecraft of Machiavelli, Napoleon, Castlereagh, Bismarck, and Woodrow Wilson. The intention of this colloquium is to dissect "political realism," show how variable it has been, and to attempt to define it with reference to the theories and policies of five outstanding practitioners who took widely differing stands. Emphasis on free-flowing discussion.

MR. GULICK

1

- c. The United States and the Spanish Civil War. An examination based largely on the use of primary sources of the involvement of individual Americans in the Spanish Civil War (1936–1939). The moral, religious, and ideological issues generated by that conflict will receive as much attention as political and diplomatic events. The course will begin with an intensive study of the role and writings of Ernest Hemingway.

MR. HENRIKSON

1

- d. The archaeology of the ancient Near East. For description see Religion and Biblical Studies 150a(1).

MR. LACHEMAN

(2)

1

Same as 150 b (1).

MR. GULICK

#### PHILOSOPHY 150 (1) (2)

(1)

1

- a. Personal morality and public policy. Are we under moral obligation to abide by the laws of our country? Does it make good sense to insist that human beings have rights that their government is morally bound to respect and protect? The aim of this colloquium will

be to elucidate and discuss questions such as these regarding the relationship between an individual and his society, between the dictates of personal morality and the requirements of public law; and to indicate why they are questions in and for philosophy.

MR. SHUE

1

- b. Freedom and determinism. An examination based primarily on recent studies, of the problem of free will and the related notions of responsibility, choice, action, predictability, reasons, and causes.

MISS ONDERDONK

(2)

1

- a. Philosophy and common sense. We never directly confront questions like: Why is it good to be reasonable or rational? Is mathematics the most objective discipline? Is reality orderly? A person with a philosophical turn of mind finds such questions peculiarly intriguing. One of the aims of the colloquium will be to demonstrate why such questions are important and to show that anyone with an inquiring mind and a desire to understand and qualify his own beliefs can and should answer them for himself.

MRS. PUTNAM

1

- b. Same as 150 b (1).

MISS ONDERDONK

POLITICAL SCIENCE 150 (1) (2)

(1)

1

- a. Civil disobedience. An analysis of the concept of civil disobedience, possible justifications for and arguments against the use of this political tactic, and its effectiveness for political change. Related ideas examined include political socialization, theories of political obligation, law, and revolution. Readings are drawn from classical and modern writers including Plato, Hobbes, Locke, Thoreau, M. L. King, Jr., and Gandhi. Students will be expected to give class reports on various case studies in contemporary politics



and to work out their own positions on the nature and extent of obedience to government.

MR. STETTNER

1

- b. Utopia: The quest for the ideal society.

MR. SEDERBERG

(2)

1

- a. Violence as a factor in international and domestic politics. Study of political aspects of urban, national, and international violence with emphasis upon racial conflict, student revolt, revolution, assassination, and civil, international, and guerrilla warfare, as well as upon the role of media, arms, police, students, and leadership. Not open to students who have taken political science 101.

MR. ROSENBAUM

1

- b. The politics of natural resources conservation in the United States. The course will start with a layman's version of what seems to be happening to several natural resources such as air, water, wilderness, and perhaps some other kinds of land. The participants will look into what might be called the political side of ecology—into governmental institutions, groups, ideologies, and so on that seem to promote or inhibit the development of governmental policies in respect to natural resources. Much of the reading will consist of case studies of past controversies over natural resources.

MR. STRATTON

## RELIGION AND BIBLICAL STUDIES 150 (1) (2)

(1)

1

- a. The archaeology of the ancient Near East. A study of archaeological evidence concerning the rise of civilization in the ancient Near East. The first appearance of cities in Anatolia, Mesopotamia, Palestine, and Egypt, their development as centers of civilization. The influence of these civilizations on the birth and rise of western civilization.

MR. LACHEMAN

- b. An examination of modern psychological theories of religion from Freud to Norman O. Brown, Erik Erikson, Claude Levi-Strauss, and Robert Bellah. Beginning with a close examination of certain key passages in Freud, the colloquium will explore the foundations for an adequate theory of religion in contemporary psychological literature. Some attention given to the relationship between modern psychological theories of religion and contemporary theology.

MR. WALLWORK

(2)

1

The contemporary dialogue between Christianity and Marxism. The colloquium aims to assess the Marxist critique of religion and to discriminate between reactionary and constructive roles played by religion in social change. It will employ and develop skills in research and analysis. Marx's criticism of the social function of religion and other pertinent documents of the movement will first be studied; some attention will be given to examples of religion contemporary with Marx. Readings in diverse Christian responses to Marxism will include:

1. Protestant and Catholic writings characteristic of earlier decades of the 20th century including Reinhold Niebuhr and Karl Barth.
2. Literature from conservative "anti-communist religion" in America.
3. Recent examples of dialogue between European Marxists and Protestant and Catholic theologians.

MR. GREEN

# College Directory





### Professors Emeriti

LAETITIA MORRIS SNOW, Ph.D.  
Professor of Botany

BERTHA MONICA STEARNS, M.A.  
Professor of English Literature

LILLA WEED, M.A.  
Associate Librarian

KATY BOYD GEORGE, M.A.  
Associate Professor of Biblical History

HELEN SOMERSBY FRENCH, Ph.D.  
Professor of Chemistry

OLA ELIZABETH WINSLOW, Ph.D.  
Professor of English

RUTH ELVIRA CLARK, Litt.D.  
Professor of French

THOMAS HAYES PROCTER, Ph.D.  
Professor of Philosophy

MARY BOSWORTH TREUDLEY, Ph.D.  
Professor of Sociology

GRACE ELIZABETH HOWARD, Ph.D.  
Associate Professor of Botany

LOUISE PETTIBONE SMITH, Ph.D., Litt.D.  
Professor of Biblical History

### OFFICERS OF INSTRUCTION

MARIANNE THALMANN, Ph.D.  
Professor of German

JEANETTE BARRY LANE, Ph.B.  
Associate Professor of Speech

EDWARD ELY CURTIS, Ph.D.  
Professor of History

LUCY WILSON, Ph.D.  
Dean of Students and Professor of Physics

RUTH ELLIOTT, Ph.D.  
Professor of Hygiene and Physical Education

EMMA MARSHALL DENKINGER, Ph.D.  
Associate Professor of English

ANITA OYARZÁBAL, M.A.  
Associate Professor of Spanish

EDNA HEIDBREder, Ph.D., LL.D.  
Professor of Psychology



ADA MAY COE, M.A.  
Professor of Spanish

ANGELINE LA PIANA, Dr. in Lett.  
Professor of Italian

EVELYN KENDRICK WELLS, M.A.  
Professor of English

LELAND HAMILTON JENKS, Ph.D.  
Professor of Sociology

LOUISE OVERACKER, Ph.D.  
Professor of Political Science

JORGE GUILLÉN, Catedrático de Universidad  
Professor of Spanish

WACLAW JEDRZEJEWICZ  
Associate Professor of Russian

MARY ELEANOR PRENTISS, M.A.  
Associate Professor of English

KATHARINE CANBY BALDERSTON, Ph.D.  
Professor of English

MARION ELIZABETH STARK, Ph.D.  
Professor of Mathematics

HELEN THAYER JONES, Ph.D.  
Professor of Chemistry

HARRIET CUTLER WATERMAN, Ph.D.  
Professor of Zoology

ELLA KEATS WHITING, Ph.D.  
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MARY LELLAH AUSTIN, Ph.D.  
Professor of Zoology

GRACE ETHEL HAWK, B.Litt. (Oxon)  
Professor of English

ELIZABETH BEALL, Ph.D.  
Associate Professor of Physical Education

LUCY WINSOR KILLOUGH, Ph.D.  
Professor of Economics

MAGDALENE SCHINDELIN, Ph.D.  
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HOWARD HINNERS, B.A.  
Professor of Music

GLADYS KATHRYN McCOSH, Ph.D.  
Professor of Zoology

DOROTHY MAE ROBATHAN, Ph.D.  
Professor of Latin

AGNES ANNE ABBOT  
Professor of Art

ELIZABETH LOUISE BROYLES, M.D.  
Resident Physician

CHARLES WILLIAM KERBY-MILLER, Ph.D.  
Professor of English

EVA ELIZABETH JONES, Ph.D.  
Professor of Zoology

EDITH BRANDT MALLORY, Ph.D.  
Professor of Psychology

EVELYN FAYE WILSON, Ph.D.  
Professor of History

TERESA GRACE FRISCH, Ph.D.  
Dean of Students and Professor of Art

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Professor of Physics

EDITH MELCHER, Ph.D.  
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MARGARET ELIZABETH TAYLOR, Ph.D.  
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CONCHA BRETÓN, Doctora en Letras  
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JOHN McANDREW, M.Arch.  
Professor of Art

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LOUISE PALMER WILSON, Ph.D.  
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WALTER EDWARDS HOUGHTON, Ph.D.  
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## Professors

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### Assistant Professors

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ARTHUR L. ANGER, B.A., Princeton University; M.A., Ph.D., Harvard University  
Assistant Professor of Computer Science

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# Index

# INDEX

- Academic calendar, 4
- Academic distinctions, 48–49
- Academic standards, 31
- Administration, 197–199
  - Green Hall, 36
- Admission, 13–17
  - general requirements for freshman applicants, 13–14
  - College Entrance Examination Board Tests, 14
  - plans, 15
  - students from abroad, 16
  - transfer students, 16
  - graduate students, 16–17
- Acceleration, 16
- Advanced placement, 16
  - credit for, 46–47
- Afro-American studies courses, 169, 177
  - interdepartmental major, 174
- Alumnae, 200–211
  - Alumnae Association, Board of Directors, 200–201
  - alumnae trustees, 201
  - National Development Fund Committee, 201
  - acquaintanceship chairmen, 202–211
- Alumnae Hall, 34
- Anthropology courses, 159–164
- Archaeology
  - classical, interdepartmental major, 174
  - course, 181
- Art courses, 53–60
- Arts Center, 34
- Astronomy courses, 61–63
- Awards, 48–49
  
- Bachelor of Arts Degree, requirements for, 44–45
- Biblical studies, 151–156, 181–182
- Biological Sciences courses, 63–69, 176
  - molecular biology, interdepartmental major, 174–175
- Buildings, see Campus
  
- Calendar, 4
- Campus, 34–40
- Career
  - Services Office, 27, 28, 199
  - preparation for, 29–31
- Chapel, 26, 35
  
- Chemistry courses, 70–74
  - molecular biology, interdepartmental major, 174–175
- Child Study Center, 35
- Chinese courses, 171–172
- Classical archaeology, 174
- College, the, 11–12
- College Center, Billings Hall, 36
- College Entrance Examination Board Tests, 14–15
- Colloquia, freshman-sophomore, 47–48, 176–182
- Correspondence, 5
- Courses of instruction, 51–182
- Credit
  - for advanced placement examinations, 46
  - for other academic work, 47
- Cross-registration with
  - Massachusetts Institute of Technology, 48
- Curriculum, 43–182
  
- Degrees
  - B.A., requirements for, 44–45
  - M.A., requirements for, 49
- Development fund, national committee, 201
- Dormitories, 25–26, 38–39
  
- Economics courses, 74–79
- Education courses, 79–81, 169, 171
- Employment, 27–28
  - career preparation, 29–31
- English courses, 81–89, 168, 176–177
- Enrollment, 32–33
- Examinations, 14, 47
  - advanced placement, 16, 46–47
  - exemption, 46
  - special examinations, 47
- Expenses, 17–20
- Extrdepartmental courses, 168–171
  - programs, 171–174
  
- Faculty,
  - officers of instruction, 185–196
- Fees and expenses, 17–20
- Fellowships and graduate scholarships, 22–25
- Financial aid, 20–22
- Foreign students
  - admission, 16
  - countries, 33
- French courses, 90–95, 178
- Freshman-sophomore colloquia, 47–48, 176–182

- Freshmen
  - admission requirements, 13–16
  - orientation for, 25
- Geology courses, 95–97
- German courses, 97–101
- Gifts and bequests, 212
- Graduate students, 16–17, 22–25, 49
- Greek courses, 101–103, 168
- Greenhouses, 36
- Heads of houses, 26, 198
- Health, college health services, 27, 198
- History courses, 107–116, 178–179
- History of science courses, 170, 178
- Honors program, 48
- Infirmary, 27, 37
- Insurance, 20, 27
- Italian, 116–118, 170–171
- Interview, the, 14
- Jobs, 27–28
- Junior Year Abroad, 29
- Latin courses, 103–107
- Leave of absence, 31–32
- Library, 37
  - staff, 197–198
- Literature, foreign, 171
- Loans, 20–21
- Major, the, 45–46
- Massachusetts Institute of Technology cross-
  - registration, 48
- Master of Arts degree requirements, 49
- Mathematics courses, 118–122, 169, 170
- Molecular biology, interdepartmental major,
  - 174–175
- Music courses, 122–127
- National Development Fund Committee, 201
- Observatory, 37–38
- Officers of instruction, 185–196
- Orientation for freshmen, 25
- Phi Beta Kappa, 49
- Philosophy courses, 127–131, 179–180
- Physical education, 38
  - requirements, 45
  - courses in, 131–133
- Physics courses, 133–137
- Political science courses, 137–145, 180–181
- Presidents, 7
- President's house, 38
- Psychology courses, 145–150
- Readmission, 32
- Refunds, 20
- Registration, 25
- Religion, 26
  - and Biblical studies, 151–156, 181–182
- Required studies, 44–45
  - exemption from, 46
- Research
  - student, 47
  - honors program, 48
- Residence halls, 38–39
- Russian courses, 156–159, 169
- Sage Hall, 39
- Schedule of classes, 51
- Scholarships, 20–21
  - graduate, 22–25
- Scholastic Aptitude and Achievement Tests,
  - 14–15
- Secondary school preparation, 13–14
- Sigma Xi, 49
- Slater fellowships, 16, 28–29
- Sociology and anthropology courses, 159–164
- Spanish courses, 164–168
- Sports facilities, 38
- Student life, 25–32
- Students
  - academic summary, 32
  - advising of, 26
  - geographical distribution, 33
  - from abroad, 33
  - married, 45
- Students' Aid Society, 20
- Study, individual, 47
- Summer programs, 28–29
- Theatre studies, 173–174
- Transfer students, admission of, 16
- Trustees, board of, 6
- United States studies
  - interdepartmental major, 175
- Vacations, 4
- Visitors, 4
- Washington internship program, 28
- Wellesley College Club, 4, 40
- Withdrawal, 32

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