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## Colby College Catalogue 1956 - 1957

Colby College

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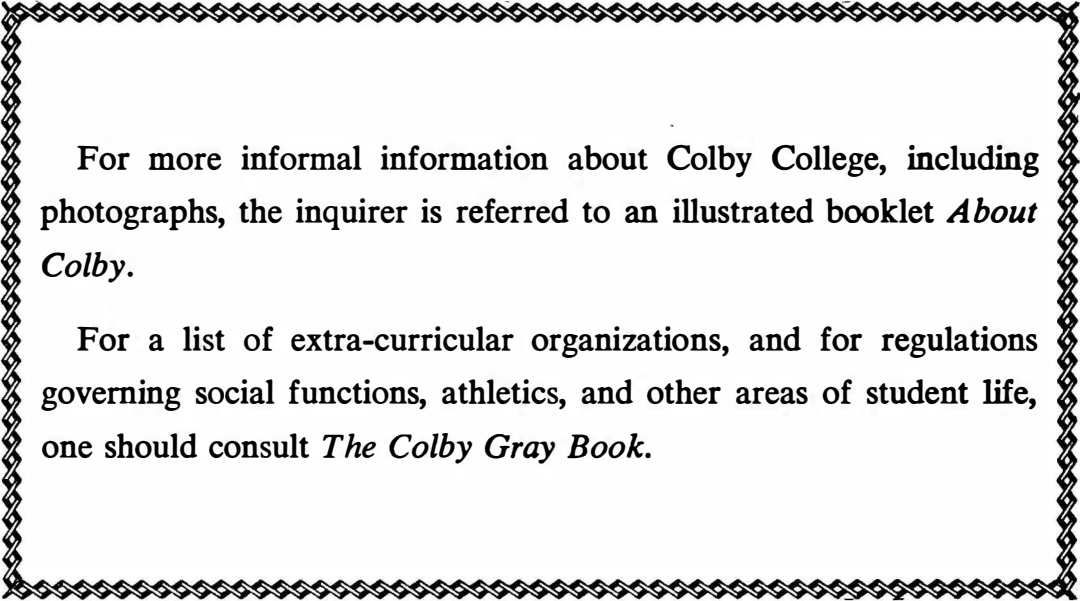
COLBY COLLEGE  
BULLETIN



*Annual Catalog Issue*

*May, 1956*

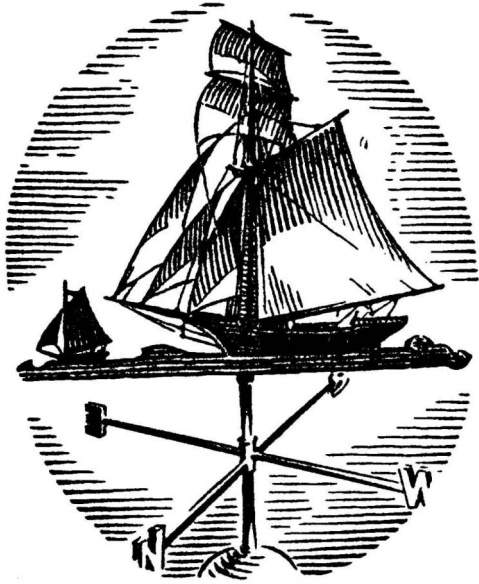
*Waterville, Maine*



For more informal information about Colby College, including photographs, the inquirer is referred to an illustrated booklet *About Colby*.

For a list of extra-curricular organizations, and for regulations governing social functions, athletics, and other areas of student life, one should consult *The Colby Gray Book*.

# GENERAL INFORMATION



The Sloop Hero, in which Jeremiah Chaplin sailed from Boston in 1818 to become Colby's first president.

A LIBERAL ARTS COLLEGE  
ADMISSION  
GRADUATION REQUIREMENTS  
HONORS AND PRIZES  
HEALTH SERVICE  
AFROTC  
GENERAL REGULATIONS  
ADULT EDUCATION  
SUMMER SCHOOL OF LANGUAGES  
FINANCES

# General Information

**CORPORATE NAME:** The President and Trustees of Colby College.

**LEGAL BASIS:** Chartered as Maine Literary and Theological Institution by the General Court of Massachusetts, February 27, 1813. Authorized to confer degrees by the first Legislature of Maine, June 19, 1820. Name changed to Waterville College, February 5, 1821; changed to Colby University, January 23, 1867; changed to Colby College, January 25, 1899. First classes, 1818. First Commencement, 1822.

**FUNCTIONS:** Independent College of Liberal Arts for Men and Women (women first admitted, 1871); nonsectarian, founded under Baptist auspices.

**DEGREE CONFERRED:** Bachelor of Arts. No other degrees in course and no graduate courses.

**ENROLLMENT:** 625 men, 475 women. Faculty: 87.

**ENDOWMENT:** \$5,070,000.

**LIBRARY:** 167,500 volumes.

**ACCREDITATION:** Member of Association of American Colleges, New England Association of Colleges and Secondary Schools, College Entrance Examination Board. Approved by American Chemical Society, Association of American Medical Schools, American Association of University Women, Phi Beta Kappa Society.

**LOCATION:** Waterville, Kennebec County, Maine. Population, 18,000. Industries: Textiles, Paper. Junction point on Maine Central R. R.; regular stop for all express trains, Boston to Bangor. Airport with service of Northeast Air Lines. On U. S. Highway 201. Distance: from Portland, 80 miles; from Boston, 200 miles; from New York, 400 miles.

## A LIBERAL ARTS COLLEGE

Colby is an undergraduate college of liberal arts. It confers only the Bachelor of Arts degree, has no graduate courses and no professional schools. Colby is dedicated to the aims of unrestricted inquiry and to the task of seeking the truth wherever it may be found. Because life is more important than a living, the Colby student is subjected to the broad fields of knowledge and inquiry which affect not only his vocational career, but also all phases of his life.

Colby does not, however, ignore the career motive which prompts so many students to attend college. The truth, as sought in the liberal arts, cannot be detached from what men call "practical" and "useful." It is not enough for a college to turn out graduates who know something well; they must also be able to do something well. Hence, within the framework of a liberal arts curriculum, the student may prepare for business, for teaching, for study of medicine, dentistry, law, or engineering, but he may not narrowly so prepare. Every candidate for the Colby degree must meet the same broad requirements, demanding that he shall have taken courses in literature, foreign language, science, and the social sciences. Only in his field of concentration is he given direct opportunity to prepare for intended life work. Even here he finds the study general and basic, and not confined to detailed vocational topics.

## DIVISIONS OF INSTRUCTION

For purposes of administration, the subjects in the Colby curriculum are divided into five divisions. In the Division of Humanities are courses in the broad field of general humanities, and the departments of Classics, English, Fine Arts and Music, and Modern Foreign Languages. The Division of Social Sciences includes Business Administration, Economics and Sociology, Education and Psychology, History and Government, Philosophy and Religion. In the Division of Natural Sciences are Biology, Chemistry, Geology and Geography, Mathematics and Physics. The Division of Health and Physical Education not only offers courses in that field, but also administers the health service, the intercollegiate athletic program, and intramural sports. The Division of Air Science gives instruction in courses provided by the U. S. Air Force for AFROTC. Certain interdepartmental courses take their content and often their staff from more than one department, sometimes from more than one division.

## METHODS OF INSTRUCTION

The recitation method, so long used in American college classrooms is no longer the predominant means of instruction. Nor does

its successor, the lecture method, in which the student is a passive listener, prevail. Recitations and lectures are still used, but always accompanied by newer methods.

In large courses at Colby, especially in the social sciences, the entire class frequently meets once or twice a week for lectures, then is broken up into small groups for weekly or more frequent sessions. These group meetings are not recitations, but are free discussions of points raised by lectures or reading. In the sciences, lectures are supplemented not only by laboratory experiments in small sections, but also by weekly discussion sections. In the foreign languages, the classes (though normally not more than twenty-five in size) are still further broken into smaller weekly sections for oral instruction. In the classes in speech, in literature and in foreign languages much use is made of phonograph records, tape recorders, and other modern devices. In all departments use is made of slides, motion pictures, and other visual aids. A feature of several departments is the senior seminar.

### THE STUDENT'S PROGRAM

In each of the four years of his Colby course the student takes five subjects to which is added physical education in the first two years. In order to assure distribution among the several divisions mentioned above, every freshman must take English composition, a foreign language (unless covered by an achievement examination), mathematics or science, a social science, and physical education. For the fifth academic subject men must take ROTC; women have an elective.

In sophomore year the requirements are a course in literature, one in foreign language unless that requirement has been previously met, a course in science or mathematics, a second social science, and ROTC or an elective. One of the required subjects or the elective must be in the field which, at the end of the freshman year, the student has selected for concentration or major.

As a freshman each student is assigned to an individual adviser for his first year. At the end of that year, some member of the staff in the student's major field becomes his adviser for the remainder of his college course.

Prospective students frequently ask just what subjects they will take, especially in the freshman year. It is true that certain requirements must be met, but the programs of individual freshmen differ according to their future educational plans and their tastes. For instance, if a student intends to prepare for a scientific career or for the study of medicine, he should get started on the necessary scientific requirements in freshman year. On the other hand, the student pri-

marily interested in a non-scientific field has a wide choice of courses to meet the modest science requirement for graduation. To present any specific pattern of courses for freshman and sophomore years is likely to be misleading. Whenever choice must be made, the student should discuss his individual needs fully with his adviser before making out his program.

In order, however, that the fixed requirements may be emphasized, two general programs (one for men, another for women) are here given for the freshman and sophomore years. To understand more fully why certain items appear in these programs, the reader should consult the Graduation Requirements on page 15.

#### FRESHMAN YEAR

##### MEN

English Composition  
 ROTC  
 Physical Education  
 Foreign Language, unless requirement  
 already met  
 A course in Science or Mathematics  
 A course in the Social Sciences

##### WOMEN

English Composition  
 Physical Education  
 Foreign Language, unless requirement  
 already met  
 A course in Science or Mathematics  
 A course in the Social Sciences  
 Elective

#### SOPHOMORE YEAR

Survey of Literature  
 ROTC  
 Physical Education  
 Foreign Language, unless requirement  
 is met  
 A course in Science or Mathematics  
 A course in the Social Sciences

Survey of Literature  
 Physical Education  
 Foreign Language, unless requirement  
 is met  
 A course in Science or Mathematics  
 A course in the Social Sciences  
 Elective

In junior and senior years, three-fifths of a student's program may be determined by his major department; the remaining two-fifths must include any graduation requirements not previously fulfilled and electives.

#### SUPPLEMENTING THE CURRICULUM

Education at Colby is not limited to the classroom. Visiting lecturers and artists come frequently to the campus. The Averill Lecture series is unique in that it brings noted scholars not merely for one lecture, but for a visit of two or three days, during which they hold informal meetings with faculty and students. The Gabrielson Lectures are given weekly during the second semester by persons prominent in public life, and are closely correlated with courses in government. Other lecturers and artists come under the auspices of the International Relations Club, the department of Fine Arts and Music, and the department of Business Administration.

Musical life at Colby is enriched by the Colby-Community Symphony Orchestra and by the chorus, choirs, and smaller singing



groups. The Colby Eight, a double quartette of male singers, and the Colbyettes, a group of female singers, have won wide renown. The Walcker Organ, gift of Dr. Matthew Mellon, is not only played regularly by the college organist, but also gives opportunity for recitals by organists of national and international repute. The Department of Music has a large collection of records to which students are welcome to listen at any time.

Religion has always played a prominent part in Colby life. Although now independent of formal affiliation with any denomination, Colby is proud of its Baptist heritage. With their insistence on religious liberty and right of private conscience, the Baptist founders of Colby endowed it with Christian principles which still invigorate its program.

By every means consistent with its belief in religious freedom, Colby seeks to develop the religious character of each student. Attendance at services is not required; rather those services are made so attractive that many students voluntarily attend them. In the Lorimer Chapel, either the chaplain or a visiting preacher conducts a weekly Sunday morning service. Four times a week, a brief devotional service is held at noon, led by the chaplain, a faculty member, or a student.

The Interfaith Association and the various denominational groups which comprise it offer many opportunities for participation in religious activities. A notable event of the year is Religious Convocation, when the association brings to the campus prominent religious leaders, who take up residence in the student houses, and conduct informal discussions.

The vitality of religious life at Colby is shown by the fact that every year several graduating seniors enter theological school. The missionary tablet on a wall of the Rose Memorial Chapel testifies to the interest of Colby men and women in foreign missions for more than a hundred years.

Many activities in which students and faculty both participate enrich the campus life. Dramatics, debating, campus publications, student government bodies, and many departmental clubs offer opportunity for varied interests. Because of unusual facilities for winter sports and out-of-door recreation besides organized athletics, an organization of special prominence is the Colby Outing Club.

Greek letter social fraternities began their existence at Colby more than a hundred years ago. The College recognizes the fraternity system as a cooperative feature in campus life. Six of the eight fraternities occupy new houses on the campus, built by cooperation of the fraternity alumni and the college. Each house is controlled by a prudential committee, on which both the fraternity and the college

are represented. A house mother is resident in each house. Members of two of the fraternities, whose houses have not yet been built occupy adjoining rooms in dormitories. Colby's eight fraternities, in order of the establishment of their local chapters, are Delta Kappa Epsilon, Zeta Psi, Delta Upsilon, Phi Delta Theta, Alpha Tau Omega, Lambda Chi Alpha, Kappa Delta Rho, and Tau Delta Phi.

For the women there are four sororities, but no sorority houses. All resident women are required to live in dormitories. On the third floor of the Women's Union each sorority has its own room for meetings, tastefully decorated with appropriate colors and insignia. The four sororities are Sigma Kappa (founded at Colby), Chi Omega, Delta Delta Delta, and Alpha Delta Pi.

The athletic program includes men's intercollegiate contests in football, basketball, baseball, track, hockey, tennis, golf, and winter sports. For both men and women there is a complete and varied program of intramural sports.

### GUIDANCE

The guidance program for men students is directed by the Dean of Men, for women students by the Dean of Women. Upon arrival at the college, each student is assigned to one of a selected corps of freshman advisers, who helps the student select his academic program and make needed adjustments to college life. The adviser holds frequent conferences with the student throughout the freshman year, and is available at all times to help the student meet problems as they arise.

In addition to his faculty adviser, each freshman is assigned a student adviser carefully selected from the junior and senior classes. Student advisers work both independently and with the faculty advisers and, like the latter, are available to the student throughout the freshman year. Special orientation assemblies for freshman are held during the year by the respective deans.

A special feature of the Colby program is the Orientation Week for freshmen at the beginning of their college career.

When the student selects his field of concentration, his adviser for the remainder of his college enrollment is a member of the department in which the concentration or major is taken. In the case of a pre-professional or a combined major, the adviser is the faculty member who heads the specified program.

A valuable member of the guidance staff is the College Chaplain, who is available for the same sort of advice for which the student would go to his own home pastor. The dormitory counselors for men and the head residents for women, as well as the college physician and nurses, also serve as guidance workers.

### PLACEMENT

The Director of Placement makes available to interested students information on opportunities for employment after graduation. He maintains a personnel file on each senior and arranges interviews with prospective employers. Career conferences focus attention on various vocations. With the cooperation of the deans of men and women, the Director also arranges for interested students to take various aptitude tests. Not only in senior year, but throughout a student's college course, the Director of Placement is available for consultation and guidance on occupational matters.

### GRADUATE STUDY

Advising students concerning graduate and professional study is a function of the Dean of the Faculty. Working with the various major advisers, he informs students about various graduate and professional programs, graduate fellowships and scholarships. He administers the examinations for admission to graduate and professional schools.

### THE LIBRARY

Because the liberal arts college must be a reading college, the library is the focus of the academic program. At Colby the library building, the Miller Library, is literally at the focal point of the campus. Here are spacious reading rooms, private study carrels, and six tiers of stacks, housing more than 167,500 books and manuscripts, all in charge of a competent and highly trained staff.

The library does not merely supply the materials for reference, required reading, and research papers. It also compiles bibliographies, prepares exhibits, publishes a quarterly journal, and stimulates interest in reading. It receives regularly more than 500 periodicals, including many from foreign countries; it is a selective depository for publications of the U. S. Government; and it is one of a few libraries in the nation designated as a depository for the U. S. Army Map Service.

The Colby Library has achieved international distinction through its special collections. These are housed in the Edwin Arlington Robinson Treasure Room, so named because the Library has been made the custodian of the books, manuscripts, and personal papers of that American poet. Here also is the world's most comprehensive collection of works by and about Thomas Hardy. Other noteworthy collections concern Sarah Orne Jewett, Jacob Abbott, Henry and William James, A. E. Housman, Mathew and Henry Carey, Elijah Parish Lovejoy, James Brendan Connolly, the poetry library of Harold Trowbridge Pulsifer, the library of Thomas Sargeant Perry, and items of local interest.

The Book Arts Collection contains examples from well known private presses and examples of the work of famous book designers and printers.

The Colby Library Associates is an organization of alumni and friends who have particular interest in the library. Membership dues are devoted to the purchase of books and other materials outside the scope of the Library's regular budget. The organization holds regular meetings with programs devoted to topics of interest to book lovers, and it awards annually the Library Associates Book Prize.

### COLLEGE PLANT

In 1952, Colby College completed its move from a hundred-year-old campus in downtown Waterville to its new 600-acre site two miles west of the city. Here, in entirely new buildings, are housing and dining facilities for all resident students, library, chapel, classrooms, laboratories, student unions, gymnasium, and playing fields.

There are four housing units for women: *Mary Low*, *Louise Coburn*, *Woodman*, and *Foss* halls. The men's dormitories are *West Hall*, divided into three units called *Chaplin*, *Pepper*, and *Robins*; *East Hall*, with three units called *Butler*, *Champlin*, and *Small*, *Averill Hall*, and *Johnson Hall*. There are six fraternity houses, occupied by Delta Kappa Epsilon, Zeta Psi, Delta Upsilon, Phi Delta Theta, Alpha Tau Omega, and Tau Delta Phi.

Two spacious unions offer a variety of facilities. The *Roberts Union* provides recreation rooms, offices for student organizations, dining service for men, rooms for staff and guests, and houses in one wing the College Infirmary. *The Women's Union* includes a gymnasium for women's physical education, with stage for dramatics and lectures, rooms for meetings and recreation, comfortable lounges, and a separate room for the use of each sorority. Each union is in charge of a resident director. Dining service for women is in the women's dormitories.

In addition to facilities provided by *The Miller Library*, *The Lorimer Chapel*, *The Keyes Science Building*, and *The Life Science Building*, there will soon be completed a large classroom building for languages, literatures, and social sciences.

*The President's Home* is fittingly situated as the first building which the visitor encounters as he enters the campus from the city.

*The Herbert Wadsworth Field House* has a seating capacity of 2,400, contains facilities for men's physical education, offices, locker rooms, showers, and remedial rooms. It has one of the largest basketball floors in Northern New England.

*Athletic Areas* include two football fields, two baseball diamonds, fourteen tennis courts, areas for field hockey and archery, spacious

playing fields for informal games, and a ski slope with tow. Johnson Pond, a body of water on the campus fed by natural springs, offers an excellent area for winter skating.

*The Maintenance Building* contains the shops and offices of the Department of Buildings and Grounds.

*The Harold Alfond Hockey Arena*, erected in 1955, is the newest building, providing a surface of artificial ice in an enclosed and covered rink with a seating capacity for 2,000 spectators.

## ADMISSION

All matters pertaining to admission for both men and women are administered by the Director of Admissions.

Acceptance of candidates for admission is determined by a selective process during which character, health, and personality are considered in conjunction with academic records. The College reserves the right to select for admission those candidates who appear most likely to profit by attendance.

Fifteen units (in which four years of high school English count for only three units) are required:

English	3	History (or Social Studies)	1
Foreign Language	2	Science	1
Algebra	1	Elective	6
Geometry	1		

The quality of a candidate's competence and preparation will be judged by his school record, the recommendations of his principal and teachers, and his scores on certain tests administered by the College Entrance Examination Board.

### College Board Tests

All applicants are required to take both the Scholastic Aptitude Test and the Achievement Tests of the College Entrance Examination Board. It is recommended that a candidate take the Scholastic Aptitude Test in January of the senior year and the Achievement Tests in March. The Achievements should include English Composition and two other tests of the candidate's choice.

During the academic year 1956-1957, the College Entrance Examination Board will hold a complete series of examinations on each of the following dates:

Saturday, December 1, 1956

Saturday, March 16, 1957

Saturday, January 12, 1957

Saturday, May 18, 1957

Wednesday, August 14, 1957

On each of the dates listed above, the schedule of tests will be as follows:

8:45 A.M. — Scholastic Aptitude Test  
(Verbal and Mathematical Sections)

1:45 P.M. — Afternoon Tests — Candidates may take not more than three of the following:

Achievement Tests:

English Composition	Latin Reading
General Composition (May only)	Spanish Reading
Social Studies	Biology
French Reading	Chemistry
German Reading	Physics
Greek Reading (March only)	Advanced Mathematics
Italian Reading (March only)	Intermediate Mathematics

Aptitude Test: Spatial Relations

Greek Reading, Italian Reading, and General Composition will be given only to candidates who register in advance specifically for these tests.

The schedule permits a candidate to take the morning Scholastic Aptitude Test and a maximum of three of the afternoon tests (only two afternoon tests if one is the two-hour General Composition Test).

Copies of College Board Tests (Bulletin of Information), obtainable without charge from the College Entrance Examination Board, contain rules regarding applications, fees, and reports; rules for the conduct of the test; advice to candidates; descriptions of the tests; sample questions and answers; and lists of examination centers.

Candidates should make application by mail to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey. Applicants in the Mountain and Pacific Coast states apply at the western office of the Board, P. O. Box 27896, Los Feliz Station, Los Angeles 27, California.

Application forms will be sent to any teacher or candidate upon request. When ordering the forms candidates must state whether they wish applications for the December, January, March, May, or August tests. Application forms for the December tests will be available early in the fall; those for the January tests will be ready for distribution about November 20; those for the March series, about January 3; forms for the other two series will be available immediately after the preceding series has been held. A copy of the bulletin of information is routinely sent to every candidate requesting an application blank.

Each application submitted for registration must be accompanied by the examination fee. A detailed schedule of fees follows:

Scholastic Aptitude Test and one, two, or three hours of afternoon tests .....	\$14.00
Scholastic Aptitude Test only .....	6.00
One, two, or three hours of afternoon tests only .....	8.00

All applications and fees from within the United States should reach the appropriate office of the Board not later than the dates specified below:

*For Tests On*

December 1, 1956  
January 12, 1957  
March 16, 1957  
May 18, 1957  
August 14, 1957

*Closing Date for Application*

November 10  
December 22  
February 23  
April 27  
July 24

Applications received after these closing dates will be subject to a penalty fee of three dollars in addition to the regular fee, but no application can be accepted, even with the extra fee, later than one week prior to examination date.

Candidates are urged to send in their applications and fees as early as possible, preferably at least several weeks before the closing date. No candidate will be permitted to register with the supervisor of an examination center at any time. Only properly registered candidates holding tickets of admission to the centers at which they present themselves will be admitted to the tests. Requests for transfer of examination centers cannot be considered unless these reach the appropriate Board office at least one week prior to the date of the examination.

### ADMISSION PROCEDURE

1. File a formal application with the Director of Admissions. A non-refundable \$5.00 application fee to cover part of the cost of processing each application is required. A check or money order for this amount should be returned with the formal application blank.
2. Personal interviews are required of all applicants, either at the College or with a Colby representative near the applicant's home.
3. The majority of each entering class is selected in April.
4. If admitted, an applicant must make the required deposit of \$50 not later than a date agreed upon by certain member colleges of the College Entrance Examination Board. That group of colleges, which includes Colby, has agreed that no admitted applicant is required to assure the college of his acceptance of admission earlier than a common date fixed annually by the group. In 1956 the date is May 26. The 1957 date will be about the same time. An applicant may assure his chosen college of his acceptance of admission as much earlier than the May date as he may desire.

### ADMISSION BY TRANSFER

Admission by transfer from another college, including a junior college, is limited to a few carefully selected students. The Dean of Men and the Dean of Women (*not* the Director of Admissions) administer all matters pertaining to the admission of transfer students.

The prospective transfer student should write to the Dean of Men or the Dean of Women, stating fully the reasons for transfer. Upon receipt of application form, the applicant should proceed promptly to fill it out and return it, and should see that his previous college sends to the Colby dean a transcript of his record and a copy of the catalog of that college. The applicant should also request the dean of his previous college to write a personal letter recommending the applicant to the dean at Colby.

### ADMISSION OF VETERANS

Unless a veteran has previously attended another college, he applies for Colby admission to the Director of Admissions, even if he intends to submit request for advanced standing based on completion of service schools or USAFI courses. Each applying veteran is cautioned that any request for such service credit must be made in advance of his actual matriculation at Colby because such credits must usually apply to freshman courses only. After a veteran has started a regular program of freshman courses, it is too late to apply for service credits.

All requests for service credits are evaluated by the Dean of the Faculty, to whom the Director of Admissions refers such cases.

### GRADUATION REQUIREMENTS

The degree of Bachelor of Arts is the only degree-in-course conferred at Colby College. To qualify for this degree a candidate must meet certain specifications in quantity, quality, distribution and concentration.

#### QUANTITY

Twenty year-courses, or their equivalent in semester courses, regardless of the number of credit hours in excess of three for each semester course.

Two years of Physical Education.

#### QUALITY

A total of 32 quality points. For each half-course (or semester course) a mark above 89 entitles the student to three quality points, a mark from 80 to 89 to two quality points, and a mark from 70 to 79 to one quality point. No quality points are given for marks below 70.

#### DISTRIBUTION

1. English Composition (English 121, 122) in the freshman year.  
Any student whose average in English 121, 122 is passing, but below 70, and whose low mark, in the opinion of the instructor is caused by deficiency in English usage, is required to take a course in corrective English Composition and must pass this course as a requirement for graduation.
2. Literature (English 221, 222) in the sophomore year.
3. Two years in the Natural Sciences, which may be taken in any one of the following options:
  - (a) One year course, or two sequence semester courses, in any two of the following subjects: Biology, Chemistry, Geology, Mathematics, Physics.



- (b) Two year courses, or their equivalent in semester courses in any one of the following subjects: Biology, Chemistry, Geology, Mathematics, Physics.
- (c) The interdepartmental course in Evolution, and one year course, or its equivalent in semester courses, in any one of the following subjects: Chemistry, Geology, Mathematics, Physics.
- (d) The interdepartmental course in Physical Science, and one year course, or its equivalent in semester courses, in any one of the following subjects: Biology, Chemistry, Geology, Physics, Mathematics beyond 123.

Note: The above requirement is effective with the class of 1959 and subsequent classes. For the classes of 1957 and 1958 only *Option (a)* applies.

4. Three year-courses or equivalent in semester courses, selected from three different subjects in the Division of Social Sciences; provided, however, that not more than one of the following courses may be counted toward this requirement: Business Administration 121, 122; Social Science 121, 122; Religion 101, 102; or any other course in the Division of Social Sciences which is open to freshmen.
5. A basic knowledge of one of the ancient or modern foreign languages taught at Colby. This requirement may be met in one of the three following ways:
  - (a) Passing an achievement examination designed to test the student's ability to read the foreign languages proficiently.
  - (b) Successful completion of any year-course numbered above 101, 102 in an ancient or modern foreign language offered at Colby College, beginning in freshman year and pursued in sequence until the requirement is fulfilled.
  - (c) A transfer student whose work has been in a foreign language other than one taught at Colby will have fulfilled the foreign language requirement provided he has completed at an accredited institution the equivalent of two years of that language at the college level, and provided the marks received are high enough to make the work acceptable toward the Colby degree.
6. *For men students only*: two years of basic AFROTC (Air Science 121, 122; 221, 222).

All candidates for the degree are required to have been resident students at Colby College for at least two years, one of which must have included the senior year.

### CONCENTRATION

Near the end of the freshman year each student must tentatively elect a major, the field of study to which he wishes to devote his chief attention during subsequent college years. The major may be chosen in a single subject, such as English, Chemistry, History, or in one of a few designated combinations. At the end of the sophomore year

the student either confirms the tentative major as permanent or elects a different major as his permanent choice.

The respective academic departments specify those courses constituting a major in the department. Prior to selecting a major each student should acquaint himself thoroughly with the requirements of the proposed field. These requirements are stated immediately preceding the description of courses offered in each department.

Three-fifths of a student's program in junior and senior years may be determined by his major department, but need not consist wholly of courses offered by that department.

Each student is required to maintain a cumulative average of at least 70 in his major. Any student whose cumulative average in courses completed toward the major falls below 70 at the end of the sophomore year or at the end of junior year is not permitted to continue with that major. Such a student may change to another major, provided, however, that at the end of junior year a student can be accepted into a new major only if he has completed, with an average not lower than 70, at least the equivalent of two year-courses which may be applied toward fulfillment of the new major. If, at the end of junior year, a student finds no department in which he can be accepted as a major, he cannot continue in college. If the work of senior year results in the cumulative average in courses completed toward the major falling below 70, the major requirement shall be considered as not fulfilled and the degree shall be withheld.

Each department designates those courses to which the "70" rule applies for a major in that department.

In order to offer a subject major, a department is obligated by faculty regulation to require at least four year-courses or their equivalent in semester courses in a single subject.

### COMBINED MAJORS

At present the only combined majors are those in American Civilization, in History-Government-Economics, and in Philosophy-Religion.

In order to offer a combined major, permitting a student to divide his concentration between two subjects, or among more than two subjects, a department must have each proposed combination approved by vote of the faculty. The following general regulations must be complied with:

1. A combined major in two subjects shall consist of a minimum of three year-courses or their equivalent in semester courses in each of the two subjects.

2. A combined major in three subjects shall consist of a **minimum** of three year-courses or their equivalent in semester courses in each of two of the subjects, and two year-courses or their equivalent in semester courses in the third subject.
3. A combined major in more than three subjects, built around an approved central theme, shall consist of a **minimum** of eight year-courses or their equivalent in semester courses, at least three of them being in one subject.

### **JUNIOR YEAR ABROAD**

Students who desire to study abroad during the junior year, either through the organization operated under the auspices of Sweet Briar College and called "The Junior Year Abroad," or under an independent plan, must arrange all details of the foreign program with the Dean of Men or the Dean of Women. Permission to undertake such a plan requires a previous average of at least 75.

### **REGISTRATION**

Students must register on assigned days at the beginning of each academic year, and at any other time of original entrance.

Registration consists of preparing and filing with the Recorder certain records in accordance with specific instructions issued at each registration period. For registration later than the date specified for a particular student for any registration period a fine of one dollar for each day of delay is charged on the student's semester bill, provided, however, that the maximum fine shall not exceed five dollars.

Normally no student will be permitted to register later than the tenth day after the first day of classes. The Recorder may permit registration later than the tenth day only if the Dean of Men or the Dean of Women certifies in writing that exceptional circumstances justify such registration.

Preceding registration for any year a student must secure from the Treasurer's office a receipt for the required tuition fee and any other required advance payments, and to gain permission to register he must present that receipt at the Recorder's office.

The Treasurer is not authorized to permit deferred payment of any fees concerning which the Board of Trustees requires advanced payment before registration. It is important that students shall understand the distinction between payment of fees and registration. These are two distinct procedures administered by two different officers of the College. Each student must complete the financial procedures preliminary to registration, as laid down by the Treasurer, before he can perform the act of registration at the Recorder's office.

**ELECTION OF COURSES**

In the spring of each year all students except seniors elect tentatively, with approval of advisers, programs of study for the ensuing year. These elections with approved revisions are confirmed during the fall registration period of the following year. A student's academic program must bear his adviser's approval and be properly filed with the Recorder, since credit will be suspended for work in a course for which a student is not correctly registered. A continuing student registering in the fall without election in the previous spring is fined \$2.00 for failure to make spring election.

With the approval of the adviser, voluntary changes in a student's program may be made during the first eleven calendar days of a semester, the first day of classes being considered the first day of the semester, and a fee of \$1.00 is charged on the semester bill for each such voluntary change. After the eleventh day no students will be permitted voluntarily to change from one course or section to another, but during a semester a student may drop a course and receive a mark of "Dr." provided both his adviser and dean consent. If the adviser and dean agree that a course may be dropped, but it must be considered as having been taken and failed, the mark shall be "40." If a course is dropped without permission the student shall, in addition to receiving a "40" in the course, be placed on probation. A course dropped after receipt of a major mid-semester warning shall necessitate a mark of "40" instead of "Dr." for that course; likewise a course dropped within thirty calendar days before the last class.

With the consent of his adviser a student may elect one, but only one course in excess of the usual five courses, provided his over-all average in all courses taken in the previous semester is at least 70. Under no circumstances is a student permitted to pursue more than six courses in any one semester.

If, on the insistence of his adviser or of the department concerned, a student repeats, as an extra course, any course which he has already passed, he shall not be charged an extra course fee; but such a student shall not be permitted to carry such a course in addition to six courses.

A student who has failed a year-course may not secure credit for it by repeating merely the second semester of the course, even if his tentative mark at the end of the first semester was passing. He must repeat the entire year if he is to get credit for that particular course. By definition a year-course is one which has no finally recorded mark until the end of the year and no credit until the final mark is recorded. The tentative mark, showing the student's progress in a year-course at the end of the first semester, is not a permanent record and carries no credit toward graduation.

### **WITHDRAWAL**

Voluntary withdrawal from the College may be effected officially only by filing with the Recorder a "Notice of Withdrawal," a form which may be obtained from the office of one of the deans. No refund will be paid by the Treasurer until he has received from the Recorder the formal "Notice of Withdrawal" and in computing refund the date on the official withdrawal notice shall be considered the date of withdrawal. A student who withdraws from the college and neglects to effect official withdrawal until later cannot collect refund for the elapsed interval.

### **SPECIAL STUDENTS**

Subject to limitation of enrollment in individual courses and the consent of the instructors thereof, the College permits adult persons to enroll as special students to take not more than three courses. Such persons must present evidence that they are qualified to pursue the intended courses, and they must pay the regular per-course tuition fee. They are not required to pay the Student Activities Fee.

### **AUDITING COURSES**

Colby students are permitted to audit courses for which they are not registered by obtaining consent of the instructor, their adviser and their dean. They are not charged an auditing fee.

Adults who are not students of the College are permitted to audit courses at a fee of \$5.00 each semester for each audited course, provided they obtain the consent of the instructor and of the Dean of the Faculty. Members of the college staff and their families may audit courses without charge.

Permission to audit courses will usually be withheld if the class is already too large and if auditing applications for it are numerous.

An auditor is not permitted to submit papers or perform any other function for which course credit is usually given.

When entering the course the person must decide whether he is to be an auditor or is to take the course for credit. Under no circumstances can academic credit be given to an auditor, nor can he later convert an audited course into an accredited course merely by paying the regular course fee.

### **EXAMINATIONS**

At the close of each semester a period of ten days is set aside for a schedule of three-hour examinations in all courses except those which the Committee on Examinations has specifically exempted. The exact proportion given to the examination mark in computing

the course mark is left to the decision of each instructor, except that the mark for the semester examination may constitute not more than half of the total.

No student may be excused from any semester examination except for illness or emergency so grave as to justify excuse, in judgment of the Dean of Men or Dean of Women. A student thus excused may be examined at a later date convenient to the instructor, but under no circumstances is a student permitted to take a semester examination earlier than the date on which it is scheduled, and a fee of \$5 is charged for each postponed examination. The schedule of semester examinations, both as to time and place, is fixed by the Director of Schedule.

With the consent of the Dean of Men or the Dean of Women, a student may, for unusual reason, accept in lieu of semester examination, a mark equal to 75 per cent of his average in the course without examination. This procedure is so costly in reduction of final mark that few students request it.

Hour examinations and shorter quizzes are given as frequently as the individual instructor wishes. Short quizzes may be given without notice, but each instructor is expected to give one week's notice of any hour examination.

Cheating in an examination is a serious offense. The instructor may dismiss the offender from the course with a mark of Zero, or he may refer the case to the Dean of Men or the Dean of Women for more drastic action.

A student is entitled to only one semester examination in any course; failed examinations cannot be repeated.

#### COMPREHENSIVE EXAMINATION IN MAJOR

On the eighth day after the close of the spring recess, each senior is required to take a comprehensive examination in his major field. The examination time includes at least six hours, part of which may be oral, at the discretion of the department concerned. The objective is the integration and correlation of study in the major field and its relation to other disciplines. The examination is not marked numerically, but is graded "Honors," "Pass," or "Fail." Appropriate recognition at Commencement is given to students who receive "Honors." Students failing the examination are entitled to a second examination before Commencement, but if the second examination is failed, the student is not entitled to another attempt to meet the requirement until the following academic year. The examination must be passed before the degree can be conferred.

#### GRADUATE EXAMINATIONS

It is becoming increasingly common for graduate and professional schools to require formal, objective examinations for admission.

Hence a center has been established at Colby College for administering the Graduate Record Examination, the Medical College Admissions Test, the Law School Admissions Test and the Graduate Business School Test. These tests are administered by the Dean of the Faculty, at whose office interested students may secure complete information about them.

#### SELECTIVE SERVICE EXAMINATIONS

Used by the Selective Service System in partial determination of a registrant's permission to continue in college, these are administered at the College on dates fixed by Selective Service.

#### READING PERIOD

Near the end of each semester, there is a Reading Period in all courses numbered in the 300's and 400's. In the first semester the period extends from the re-opening of college after the Christmas recess until the beginning of the midyear examinations. In the second semester it extends for approximately two weeks preceding the final examinations.

The Reading Period does not apply to courses numbered in the 100's and 200's, but only to the 300 and 400 courses. The period is not for review work or "make-up," but rather to free the student from routine class meetings in order that he may devote full time to independent study of freshly assigned reading or laboratory work. Assignments for the reading period are in addition to ordinary assignments in the course. The Reading Period assignments will be tested in the semester examinations, to a maximum of one-third of the examination time.

During the Reading Period the classes affected do not meet. The instructors are, however, available for consultation, through daily office hours, or in library or laboratory.

Any department wishing to have a particular 300 or 400 course exempted from the Reading Period and have its class meetings continue through that period will make application for such exemption to the Faculty Committee on Examination, which has authority to grant or refuse the request.

#### ACADEMIC STANDING

A student's class standing is determined by the number of half-courses (or semester courses) he has passed. Freshman standing, from none to seven half-courses; sophomore, from eight to seventeen; junior, from eighteen to twenty-seven; senior more than twenty-seven.

At the end of the first half of each semester the faculty issues, through the Recorder's office, mid-semester warnings. A major warn-

ing means that a student's standing at that time is below passing; a minor warning that, while passing, it is so low as to indicate that final failure of the course is possible.

Official marks in percentages of 100 are issued to students at the end of the first semester by the faculty advisers; at the end of the second semester, marks are issued to students directly by the Recorder. In practice a student often obtains his semester mark in a course directly from the instructor, but the official record of all his marks is only the record in the permanent files at the Recorder's office. At the time of mid-semester warnings in November, the deans of men and women often ask instructors to present an informal estimate of the standing of freshmen, in order that the deans may have early information about the progress of new students. Those informal mid-semester statements, however, are not official marks and are not recorded at the Recorder's office. The only official marks are those issued at the end of each semester.

The first semester mark in a course designated as a year-course is only a tentative mark. For designated year-courses no credit is given until the completion of the full year's work, and there is only one final mark for the entire year, not separate marks for the two semesters as in other courses. A mark below 60, except for courses referred to in the next paragraph, means that a course has been failed and that credit hours thus lost must be made up by an additional course in a subsequent term. If the failed course is specifically required for graduation, it must be repeated.

A mark between 55 and 59, inclusive, formerly called a mark of "E", applies only to specifically designated first semester courses. Unless, in the course description in this catalog, a course is specifically labeled as an "E" course, a mark below 60 in the first semester means definite and final failure. In a properly designated "E" course a mark between 55 and 59 signifies temporary failure, which may be made up by improved work in the second semester. The passing of the second semester in such a sequentially related course entitles the student to a change of the first semester temporary failure to a mark determined by the department concerned.

A mark of "Abs." indicates that a student has been absent from final examinations. Such a mark must be made up as soon as possible after the beginning of the following term, and before the close of such term. After the expiration of one term a mark of "Abs." is changed to 40.

A mark of "Cr." indicates that a student has been awarded credit but no specific mark for a course.

A mark of "Dr." indicates that the course has been dropped with permission, and was passing when dropped.



A mark of "Inc." indicates that a course has not been finished for some other reason than failure to take the final examination when scheduled. For the latter the mark of "Abs." is used, as explained above. The uncompleted work must be made up within limits prescribed by the instructor; otherwise the mark will be changed to 40. In any event, after the expiration of one term, any remaining mark of "Inc." will be changed to 40.

The letter "R" is used together with an appropriate mark when a student has repeated a course, and in such a case there can be no additional credit in terms of semester hours.

Whenever a student's academic record shows serious deficiency, the question of a student's retention or dismissal is decided by the Committee on Standing, in which the faculty has vested complete power to deal with such cases.

### BOOK OF THE YEAR

A unique feature at Colby is the *Book of the Year*. Each spring a committee of faculty and students selects an outstanding book for all to read during the ensuing college year. The selected book is frequently mentioned in many different courses and in informal discussion groups. In 1955-56 the book was David Reisman's *The Lonely Crowd*.

### HONORS

The degree of Bachelor of Arts with Distinction is awarded in three grades: *cum laude* to those who attain an average mark between 88 and 92 per cent throughout their college course; *magna cum laude* to those whose average mark is between 92 and 95; and *summa cum laude* to those whose average mark is 95 or above.

In American colleges it is generally considered that the highest honor an undergraduate can receive is election to Phi Beta Kappa. This nationally famous society, founded in 1776, restricts its chapters to leading colleges and universities, and it maintains very high scholastic standards. The Beta Chapter of Maine was organized in 1895. Election to membership is based upon academic record at the end of seven semesters and on recommendations then made by instructors.

A student who has not obtained a cum laude grade but who has done work of marked distinction in one department may, upon recommendation of that department and by vote of the faculty, be mentioned on the Commencement Program for honors in that particular subject.

An important annual event of the late spring is Recognition Assembly, when a general assembly with a prominent guest speaker is held for the purpose of recognizing those students who, during the

year, have earned honors. Among those recognized are the following: newly elected members of Phi Beta Kappa; winners of College Prizes; recipient of the Condon Medal; newly elected members of Blue Key and Cap and Gown, the honor societies for Senior men and Senior women respectively; recipients of certificates from Phi Beta Kappa, awarded to members of the three lower classes for distinction in scholarship.

A limited number of Senior Scholars, selected by a faculty committee at the end of junior year, devote during senior year a major part of their time to approved scholarly projects. Each Senior Scholar pursues this work under the guidance of a faculty member, and to allow sufficient time for the work the Senior Scholar is excused from as many of his usual number of five courses as the committee shall determine. The list of Senior Scholars for the ensuing year is announced among other honors at the annual Recognition Assembly.

Another honor recognizing high academic performance is the Dean's List, upon which appears the name of every student whose average of all marks in the previous semester has been at least 85.

## COLLEGE PRIZES

### GENERAL

*American Association of University Women's Membership Award.* The State of Maine Division of the A.A.U.W. awards a national membership in the Association for one year to a senior girl of outstanding scholarship, citizenship, and campus leadership.

Awarded in 1955 to Elinor Ann Small, '55

*Condon Medal.* The gift of the late Randall J. Condon, 1886, awarded to the member of the senior class, of either sex, who by vote of his classmates and the approval of the faculty is deemed to have been the best college citizen.

Awarded in 1955 to Anne Porter Mandelbaum, '55

*Delta Delta Delta Scholarship Award.* Awarded annually by the sorority for scholastic ability and general college participation.

Award in 1955 was divided between Marietta Eva Roberts, '57 and Shirley Josephine Verga, '57

*Adelaide True Ellery Scholarship.* Awarded in memory of Adelaide True Ellery, 1890, to a woman student at Colby for outstanding religious leadership at Colby, the scholarship to apply in her junior and senior years.

Awarded in 1955 to Frances Rambach, '57

*Lelia M. Forster Prizes.* From the income of the Lelia M. Forster Fund awards are made annually to "the young man and the young woman of the preceding entering class who have shown the character and ideals most likely to benefit society."

Awarded in 1955 to Dorothy Greenman, '58, in the women's division and to Bruce Chase Blanchard, '58, in the men's division

*Student Government Association Scholarships.* The Student Scholarship Fund is collected by students through the Campus Chest and is administered by the Student Scholarship Committee. Awards are made to deserving students who, in the opinion of the committee are most worthy of the awards.

In 1955 awards were made to Thomas Stephen Collins, '57, Janet Elizabeth Kimball, '57, Charles Alan Morrissey, '56, and Joanne Claire Raffay, '57

*Student League Scholarship.* Awarded annually to the junior girl who best meets these requisites: average scholarship or better, leadership, participation in extra-curricular activities, and friendliness, and who has contributed to her college expenses by her own efforts.

Awarded in 1955 to Vashti Ophelia Boddie, '56; additional award to Barbara Joan Klein, '57

*Carrie M. True Award.* Awarded annually in memory of Carrie M. True, 1895, to a woman undergraduate at Colby selected for pronounced religious leadership and influence in the life of the college.

Awarded in 1955 to Patricia Ann Hennings, '56

*Michael Lester Madden Scholarship.* Awarded by the Scott Paper Company in memory of Michael Lester Madden to a Colby student at the end of sophomore year who has best demonstrated outstanding scholarship as well as leadership and participation in extra-curricular activities; the scholarship to apply during junior and senior years.

Awarded in 1955 to Peter Merrill, '57

*Library Associates' Book Prize.* Awarded annually by the Colby Library Associates to the senior who, during his or her four years in college, has assembled the best collection of books. This prize has been partially endowed by the Class of 1941.

Awarded in 1955 to Doris Erika Lind, '55

#### BUSINESS ADMINISTRATION

*Ernest L. Parsons Prize.* Awarded to a senior in Business Administration who, in the opinion of the faculty of this department, combines high quality of scholarship, personality, and extra-curricular interests.

The 1955 award was divided equally between Yvonne Richmond Ellis, '55 and George Perry Dinnerman, '55

## CLASSICS

*Foster Memorial Prizes in Classics.* One or more prizes in memory of the late Professor John B. Foster, awarded to students from either division for marked excellence in advanced Latin or Greek courses.

Award in Latin, 1955, to Theodore Crane, Jr., '58

Award in Greek, 1955, to David Horton Mills, '57

## ENGLISH

*Mary Low Carver Prize for Poetry.* Awarded to a student in the women's division for an original poem of merit in the English language.

Awarded in 1955 to Doris Erika Lind, '55

*Solomon Gallert English Prize.* Given by Mrs. Joseph L. B. Mayer in memory of Solomon Gallert, 1888; awarded for excellence in English.

Awarded in 1955: first, to Sara Prescott Fritz, '58; second, E. Conrad Forziati, '58

## HISTORY

*Lampert History Prize.* To the senior who is the highest ranking major in the fields of history and government, a fund is provided for books of the winner's choice.

Awarded in 1955 to Sue Franklin, '55

*William J. Wilkinson History Prize.* Established by Mrs. Wilkinson in memory of her husband, Dr. William J. Wilkinson, professor of history and government at Colby from 1924 to 1945, the prize is awarded annually to the history major in the junior class who, in the judgment of the department, best combines special interest in Modern European history with a high average in history and government courses, personal integrity, and ability to reason critically and independently.

Awards in 1955 were equally divided between Barbara Jean Nardozzi, '56 and Eleanor Anthony Rieg, '56

## MODERN LANGUAGES

*French Consulate Prize.* Awarded annually by the French Consulate in Boston for excellence in French studies.

Awarded in 1955 to Beverly Amelia Mosettig, '55

*German Prizes.* For excellence in German courses.

Awards in 1955 were to the women's division only: first, Nancy Neta Nielson, '57; second, Marcia Geneva Jebb, '55

*Delta Phi Alpha German Prize.* Awarded for scholarship in the German language and literature, and for initiative in fostering an interest in the various activities of the German clubs.

Awarded in 1955 to Adelheid Christa Pauly, '56

### MUSIC

*Louise Colgan Glee Club Awards.* Presented to the highest ranking senior man and to the highest ranking senior woman who have been members of the glee club for at least three years.

Awards in 1955: Men, divided between John Nathan Reisman, '55 and Peter Pan Parsons, '55; women, Carol MacIver, '55

*Louise Colgan Orchestra Award.* Presented to the sophomore student member of the wood wind section of the Symphony Orchestra who has the highest academic standing in that section.

Awarded in 1955 to Beverly Ann Colbroth, '57

*Symphony Society Award.* Presented to the student in the string section of the Symphony Orchestra who has shown unusual interest and improvement.

Awarded in 1955 to Louise Hatfield McGuinness, '56

### PUBLIC SPEAKING AND DRAMATICS

*Goodwin Public Speaking Prizes.* Given by the late Mattie E. Goodwin in memory of her husband, Congressman Forrest Goodwin, 1887, these are awards for excellence in the delivery of original addresses.

Awards in 1955: first, Richard Alexander Magill, '55; second, Jay Smith, '56; third, Philip Minchin Kilmister, '55; fourth, Bruce Miles Sullivan, '55

*Hamlin Speaking Prizes.* Awarded to freshmen for excellence in public speaking.

Awards in 1955: first, Chester Lopez, '58; second, Joan King, '58

*Julius and Rachel Levine Speaking Prizes.* The gift of Lewis Lester Levine, 1916, in memory of his father and mother, four prizes are awarded for excellence in extemporaneous address.

Awards in 1955: first, John Baxter, '58; second, Carol Kiger, '56; third, Richard Magill, '55; fourth, Jay Smith, '56

*Murray Debating Prizes.* A bequest of the late George E. Murray, 1879, provides for the annual award of prizes for the best arguments presented at a public exhibition.

This contest was not held in 1955

*Montgomery Interscholastic Public Speaking Prizes.* A bequest of the late Job Montgomery of Camden, Maine, provides for the annual award of prizes to contestants from the secondary schools who appear at Colby on an assigned date for this contest.

Awards in 1955: first, Louis Leotta, Perkins Institution for the Blind, Watertown, Massachusetts; second, Henry Acosta, George Washington High School, New York City; third, Patricia A. Sohles, Dartmouth High School, North Dartmouth, Massachusetts.

*Powder and Wig Awards.* Presented by the Colby dramatic society, Powder and Wig, for exceptional achievement in dramatic productions at Colby.

Awarded in 1955 to Ernest Wilfred Flick, '55

#### SCIENCES

*Chi Epsilon Mu Prize in Chemistry.* Awarded annually to the highest ranking freshman in chemistry.

Awarded in 1955 to Margaret Ann Siebrecht, '58

#### SOCIAL SCIENCES

*Chi Omega Prize in Sociology or Political Science.* Awarded to the highest ranking student in sociology and in political science in alternate years.

Awarded in 1955 to Anne Porter Mandelbaum, '55, in political science

*Albion Woodbury Small Prizes.* A bequest of Lina Small Harris of Chicago, in memory of her father, Albion Woodbury Small, 1876, former President of Colby College and late professor of sociology and dean of the graduate school at the University of Chicago, this fund provides awards for students pursuing work in economics and sociology. Prizes are annually awarded for the best essays on some subject announced by the Department of Economics and Sociology.

In 1955 no award was made

#### HEALTH SERVICES

Before matriculation, each newly enrolled student must present a satisfactory health certificate signed by a physician. Regular forms for this purpose are submitted to the student prior to his arrival on the campus. It is desirable that all remediable defects be corrected before the student enters college.

Students may be requested to have a thorough physical examination once a year or whenever considered necessary by the College Physician. The College Physician will advise each student with

physical limitations or disabilities as to the proper program for his particular case.

The College maintains a 35 bed infirmary in the Roberts Union under the direction of the College Physician, and staffed by registered nurses. A consulting staff of surgeons, internists and specialists of the Thayer Hospital are available to the College Physician in cases of serious illness.

The College Physician and his staff hold consulting hours (Daily Sick Call) at the Student Health Dispensary located in Roberts Union. Students are entitled to as many visits to the daily sick call as may be necessary, the use of the college infirmary in accordance with the established regulations, and all necessary attendance by the College Physician and the infirmary nursing staff. It is important that students and parents understand that the college health service does not entitle a student to services of a surgeon or specialist, such laboratory procedures as X-Rays, blood counts, prescription medication, refractions, glasses, dentistry, or other special diagnostic techniques.

The College limits its responsibility to illness occurring only while college is in session. Students or their parents are free to select consultants, surgeons or hospitals of their own choice, but in such cases the fees of the physicians, surgeons, nurses, hospitalization, and incidental fees are not the responsibility of the College Health Service.

Free service in the college infirmary is restricted to a total of two weeks in any college year. Infirmary meals are charged at reasonable rates. Whenever students are regularly boarding at the College dining halls there is no additional charge for infirmary meals.

The College also has compulsory group accident and medical reimbursement insurance which provides benefits in cases where the facilities of the Health Service program are not sufficient. This insurance is supplementary to the College Health Service and details concerning it are published prior to the opening of each fall semester.

The Health Services of the College are described in detail in the Colby Gray Book.

## **AIR FORCE RESERVE OFFICERS' TRAINING CORPS**

### **GENERAL**

An Air Force Reserve Officers' Training Corps unit has been established at Colby College since 1951. The unit, known as the Department of Air Science, is staffed by Air Force officers and airmen who administer and operate the program of instruction.

The AFROTC program has many objectives. Since this is the major source of officers for the Air Force, a primary purpose of the Department of Air Science is to select, develop and eventually commission graduates in the Air Force. Of like importance, the Department presents a planned program of Air-Age citizenship education designed to develop within the student an understanding of present-day aviation, in addition to the mission, organization, problems and techniques of the United States Air Force.

The completion of two years of AFROTC, Basic Air Science, or its equivalent, as determined by the Dean of Men, is a graduation requirement for all physically qualified male students. The instruction given in these two years, freshman and sophomore, constitutes the Air-Age citizenship course.

The Advanced Air Science course, junior and senior years, including the attendance at a summer training unit, is offered to selected, qualified, volunteers from the Basic Course. "Advanced" provides further opportunity for the selected student to train as intelligent, informed, responsible citizen-leaders of Tomorrow. Qualified students successfully completing the Air Science courses will be commissioned Second Lieutenants in the United States Air Force Reserve upon graduation.

The majority of graduating ROTC cadets will be qualified for acceptance into Pilot or Observer training in the United States Air Force. These graduates and selected others have excellent opportunity to become officer-leaders in many Air Force Career fields such as Electronics, Administration, Meteorology, Legal, Logistics, Air Installations and Research and Development.

Outstanding senior students exhibiting fine qualities of leadership and character may be designated Distinguished Graduates, which in turn makes them eligible to compete for a regular officer career in the Air Force.

Outstanding achievement or performance in various fields of endeavor within the program is given recognition by presentation of awards, normally trophies or medals, by the following organizations and others:

1. The Air Force Association
2. Chicago Tribune
3. Consolidated Vultee Aircraft Corporation
4. Republic Aviation Corporation
5. Reserve Officer Association
6. Sons of American Revolution

Winning students are encouraged to wear appropriate ribbons or badges on the cadet uniform.



## PROGRAM OF INSTRUCTION

Full academic credit is given for each of the AFROTC courses. The two phases, Basic and Advanced, are described as follows:

*Basic*

The Basic phase consists of Air Science 121, 122 taken during the freshman year and Air Science 221, 222 taken during the sophomore year. Three classroom hours and one field laboratory hour per week are scheduled for each course. (See Curriculum Section for course content outline.) These Basic courses, or their equivalent, are a prerequisite for the Advanced Course.

Male students accepted for enrollment in the Basic course at Colby will be sent an AFROTC application form. This form is necessary for getting complete uniforms in readiness for the incoming student. A physical examination form, to be filled out by the family physician, will also be sent and should be returned prior to school opening. Applicants who have reached their 23rd birthday will be ineligible for the Basic course.

*Advanced*

This phase consists of Air Science 321, 322 taken during the junior year, and Air Science 421, 422 in the senior year. These courses have four classroom hours and one field laboratory hour per week.

Advanced course students must attend four to six weeks of summer training at an Air Force base between the junior and senior years. During this period they are paid approximately \$75 per month, travel pay, quarters and food, uniforms and medical care.

During the Advanced phase, cadets receive approximately \$27 per month and are issued an individually-tailored Air Force officer's uniform worth \$100 which the student retains upon graduation.

To enroll in the Advanced course, the student must apply. If acceptable to the President of the College and Professor of Air Science the student will be enrolled upon signing a contract that he agrees to (1) complete the Advanced courses, and (2) attend the summer camp. Completion of the Advanced courses, once the contract is signed, is a prerequisite for graduation from the College unless the student is discharged from the AFROTC for sufficient reasons. Students must not have reached their 25th birthday at the beginning of this phase.

## AFROTC ACTIVITIES AND ORGANIZATIONS

Membership in extra-curricula college activities and clubs, particularly as leaders, is excellent experience for the student. For this reason, in addition to those within the college itself, the Department of

Air Science sponsors the following organizations operated almost solely by the Advanced Cadet Corps students. Recognition is given for outstanding achievement and performance.

1. *AFROTC Band*

Membership is available to all AFROTC students. Training under direction of a member of the Music Department of the College is obtained for this activity and the band is used for drills, ceremonies and parades.

2. *AFROTC Drill Team*

Membership is available on a competitive basis for all AFROTC students especially interested in participating in exhibition and precision drill for special occasions. The team participates annually with teams from other ROTC units in the area.

3. *AFROTC Rifle Team*

Membership is open to all AFROTC students. The team competes with other AFROTC teams throughout the Northeast, also on a National basis. A series of matches is scheduled with a number of colleges and universities in the vicinity.

4. *Ground Observer Corps Unit*

Membership is open to all AFROTC students. A voluntary activity by the Cadet Corps to assist in the defense of the country by giving observer time to the Post located at the College. Air Force Ground Observer Corps awards are presented to students upon completion of a certain number of hours of duty.

5. *Arnold Air Society*

The Arnold Air Society is a National organization in the AFROTC program whose membership is usually confined to juniors and seniors of the AFROTC Advanced course. To date there is no chapter at Colby but plans are under way for the establishment of one in the near future. Membership is restricted by certain requirements to keep the standard at a level with academic honorary societies.

#### ROTC OPPORTUNITIES FOR VETERANS

Commissions in the Air Force Reserve and/or Pilot and Observer training is a possibility for those honorably discharged veterans who pursue AFROTC training in phase with non-veteran contemporaries. (The Dean of Men may exempt veterans from the ROTC requirement on an individual basis.) Service-exempt veterans fulfilling academic, physical, mental and selection qualifications may be commissioned in the Air Force Reserve without active duty obligation upon

graduation. Veterans qualifying for Pilot and Observer training, however, must agree to serve three years on active duty following college graduation.

Students who have had previous military training at the United States Military Academy, United States Naval Academy, United States Coast Guard Academy or in the Senior Division of the Army ROTC or Naval ROTC may receive credit for such training by the Professor of Air Science.

All veterans should apprise themselves of the opportunities offered before final selection of courses. The Professor of Air Science and his staff are ready to assist the veteran in this matter.

Active duty members of reserve components of the Armed Forces may also be exempt by the Dean of Men. Failure to remain "active" during the freshman and sophomore years will necessitate enrollment in the Basic course of AFROTC.

#### DEFERMENTS FROM SELECTIVE SERVICE

Students in good academic standing in college courses are normally deferred from active military service. The student must be selected as eligible by a Deferment Board, indicate his intentions of completing the four-year course and sign a deferment agreement. This agreement states the student agrees, (1) to accept a commission upon completion of requirements, (2) to serve in active status for three years' following graduation, and (3) to keep a reserve commission until the eighth anniversary of his commissioning date.

Once awarded, a deferment is continuous as long as the student is in good standing in the AFROTC and his other college courses. Academic failure and/or certain other conditions will result in deferment cancellation.

#### VETERANS

Colby College is fully approved by Veterans Administration to supply education and training under government benefits allotted to veterans by virtue of several federal laws. The Dean of the Faculty is Coordinator of Veterans' Affairs, and all inquiries about registration under veterans' benefits should be addressed to him. Each veteran must submit a certificate of eligibility issued by Veterans Administration.

#### GENERAL REGULATIONS

The rules respecting student residence, organizations, social activities and intercollegiate athletics are published in the Colby Gray Book and Women's Handbook. All students are held responsible for

knowledge of those regulations as well as for those which are published in the following paragraphs and in other sections of the catalog.

The Administration of the College is concerned fully as much with the social habits and character of the students as with academic standing. Students who are persistently negligent in their academic and social obligations, or who consistently violate regulations of the college or community, may be required to terminate their attendance. The College reserves the right to dismiss any student whose presence its officers believe to be detrimental to the general welfare, and such dismissal may be effected without the preferment of specific charges.

### ATTENDANCE

1. Students are expected to be regular in attendance at all classes, and absence is regarded as an unfulfilled obligation. Each student is, however, allowed at least two unexcused absences from each course in any semester. The maximum number allowed, if beyond two, is determined for each course by the individual instructor.
2. Excuses for absence including infirmity excuses, must be made to and secured from the Dean of Men or the Dean of Women. Individual instructors are not permitted to excuse students from classes.

The Dean of Men or the Dean of Women may grant excuses only for the following reasons:

- (a) Critical emergencies.
- (b) Athletic or other organizational trips.
- (c) Illness certified by the college physician or his authorized representative.

Medical excuses will be issued only to students who fall within one of three classifications:

- (1) Those confined to the college infirmary or hospital because of illness or surgery.
- (2) Those students treated by the medical staff at the dispensary, infirmary, or hospital.
- (3) Those students visited by the college physician in dormitory or other place of residence.

Medical excuses will not be granted on a retroactive basis unless one of the three classifications is satisfied.

3. Each instructor shall explain at the first meeting of every semester what constitutes unsatisfactory attendance in that class, and shall record at the offices of the Deans of Men and Women how many cuts are allowed in each of his courses.

4. Any student whose attendance is unsatisfactory shall be warned by the Dean. Upon receipt of a second attendance warning in one course in one semester, the student shall be dropped from that course with no credit and with a mark of F. No warning shall be issued unless the excessive absence is reported to the dean within 72 hours of its occurrence.
5. The dean shall not issue more than one warning in any one course to the same student for absence in any seven-day period. However, vacation warnings shall be issued regardless of the interval of time since any previous warning.
6. Any student absent without excuse from the last meeting of any class before a vacation or the first meeting of any class after a vacation shall receive a vacation warning for each such class absence. If any such warning shall constitute a second vacation warning in any course, the student shall be dropped from that course with no credit and with a mark of F. The word *vacation* is interpreted to mean the Thanksgiving recess, the Christmas recess, the spring recess, and the period between the last classes of the first semester and the first classes of the second semester, but not single holidays. Each vacation cut shall count as one of the minimum cuts allowed, and a vacation warning shall constitute also an attendance warning if allowed cuts have all been taken before the vacation absence occurs.
7. All members of the senior class and those members of other classes who are on the Dean's List shall be entitled to unlimited absences in academic subjects, but such absences shall not include announced tests nor exempt the student from the provisions of Section 6 governing vacation absences.
8. More restrictive attendance requirements for students who are on probation, or who have received a major or a minor warning, shall be at the discretion of each instructor.
9. Absences caused by exclusion from classes because of nonpayment of college bills shall be treated in the same manner as all other absences, except that the appropriate dean shall have authority to excuse absences caused by such exclusion when he is convinced that no fault lies with the student.
10. No student on academic probation shall be excused from any class because of extra-curricular or athletic activities.
11. Christmas season employment excuses shall be granted only to upperclassmen who show financial need and who had at least a C average in the previous semester. No such excuses will be granted for a period to begin earlier than the Monday preceding the closing of college for the Christmas recess. No excuses for Christmas employment will be granted to freshmen.

### **LIQUOR**

Possession or use of alcoholic beverages is not permitted in the buildings or on the grounds of the College, nor at any social functions of student groups, wherever held.

### **USE OF AUTOMOBILES**

The use of automobiles at the College is not permitted to freshmen. After the completion of freshman year, any student may have the use of an automobile at the college, subject to the following restrictions:

- (1) Permission of parents unless the student is of legal age.
- (2) Registration of the automobile at the college office of the Superintendent of Buildings and Grounds.
- (3) Proof that liability insurance is carried.
- (4) Observance of the motor vehicle regulations of the College as well as those of the State of Maine.

### **MARRIED STUDENTS**

The college accepts married students under conditions which each such student must arrange with the Dean of Men or the Dean of Women. Any student who plans to be married during his or her college course must obtain permission of the Dean of Men or the Dean of Women.

### **STUDENT OFFICERS**

Except as officers of their own class, freshmen are not permitted to hold a major office in any college organization or to take a major part in any student production.

### **CLOSING OF DORMITORIES**

During the Commencement Week End college dormitories will be used to house parents of the graduating class and other commencement guests. All underclassmen are expected to leave the campus not later than the Thursday evening preceding Commencement, with the exception of the following: (1) Underclassmen who are participating in any part of the Commencement program, or who have college employment and have been requested to stay through Commencement; (2) Underclassmen who have been invited to the Commencement festivities by seniors, provided special permission is obtained from the Dean of Men or the Dean of Women.

### **ADULT EDUCATION AND EXTENSION**

The Board of Trustees, in the fall of 1954, officially created the Division of Adult Education and Extension. The two main reasons

for this decision by the Trustees were the demonstrated success of the ever expanding summer program over the past few years and a sincere desire on the part of the College officials to provide opportunity for self-improvement to the adult population of Waterville and neighboring communities.

Colby's first venture in Adult Education and Extension is recorded in the College Catalog for 1924-25: "After 104 years spent in the education of young men and women, the college indicates its readiness to extend its activities further by the inauguration of College Extension Courses designed to meet the requirements of the following classes of persons." With only an occasional lapse of a year or two, extension courses were offered until 1943.

In the summer of 1945, a new phase of Colby's Adult Education program was inaugurated. Firm in his belief that the wonderful facilities of the beautiful new Colby campus should not remain idle for three months of each year, Dr. Frederick T. Hill, a trustee of the college, proceeded to bring into reality his vision of a Colby serving the people for twelve months of the year. He conceived the idea of bringing to Mayflower Hill the First Annual Institute For Hospital Administrators, and this first Institute has ever since been an integral part of the expanding program.

The Colby-Swarthmore Summer School of Languages was organized in 1948 as a joint venture of the two colleges. In 1952, Colby assumed full responsibility for this activity.

In 1953, Professor Ralph S. Williams was appointed Director of Adult Education, and under his direction, the summer activities expanded to such a degree that the Board of Trustees felt justified in creating a new Division of the College and appointing a full-time Director. The summer program of 1955, which concluded the first full year of Adult Education activity under a full-time Director, brought over 2,000 people to Mayflower Hill as participants in one or another of the seventeen programs held at Colby. This more than doubled the figures of any previous summer.

Another activity of the Division of Adult Education and Extension is the Colby-sponsored Institute for Maine Industry, now in its fifth year. Held in late March, it brings to the campus nearly 200 of the top industrial leaders of Maine. Throughout the year other meetings and conferences are sponsored directly, or in cooperation with other departments of the college.

Beginning with the second semester of the College year of 1954-55, the offering of evening courses to the adult population of this area was resumed. Six courses were given, and similar evening classes were held both semesters of 1955-56. They were planned with two groups in mind: (1) those individuals, in and nearby Waterville,

whose primary interest is in the cultural and intellectual aspects of the courses and enjoyment of them; and (2) teachers who, in addition, desire to acquire credit for teacher certificate requirements.

The second half of the college year of 1955-56 brought a significant advance in our expanding program, with the offering of the first three courses of a planned curriculum of General Education. In its present stage of planning, this program makes it possible for an individual to obtain the equivalent of two years of college education through evening study. The leading industries of the Waterville area enthusiastically cooperated in the promotion of this new development.

In addition courses for special groups are sponsored as the need arises. Examples of such are classes preparing insurance men for C.L.U. and C.P.C.U. examinations, and Workshop courses for teachers, which provided special training for Remedial Work in Reading and Speech. It is interesting to note that the Speech Workshop was a cooperative project with Bowdoin, with Colby sponsoring the course, and Bowdoin providing the instructor and the facilities.

Recognizing the fact that in every community there is a wide diversification of educational interests, and believing that education should be a continuous process throughout one's life, Colby recognizes its obligations to the people it is in a position to serve, and has set for itself certain objectives. Through this new Division of Adult Education and Extension, the College plans to provide learning for occupational improvement, for participation in civic affairs; for leisure-time pursuits; and for scholastic achievement. We are particularly desirous of providing for the worker the opportunity to learn as he earns.

The Division of Adult Education and Extension is always ready to cooperate with groups and organizations in sponsoring activities of an educational nature. Inquiries should be directed to Professor William A. Macomber, Director, Colby College, Waterville, Maine.

### **COLBY COLLEGE SUMMER SCHOOL OF LANGUAGES**

The School was opened in 1948 as the Colby-Swarthmore Summer School of Languages. During the first five years of its operation it was sponsored by Colby College at Waterville, Maine, and Swarthmore College at Swarthmore, Pennsylvania. For practical reasons Colby College, in 1952, assumed full responsibility for the School, but the general policies and standards already established by the two colleges are maintained as in the past. The School recognizes the increasing need in our country for more men and women with a sound knowledge of foreign languages. It has faith that linguistically trained citizens can help to further international understanding and good will among nations. The School is organized especially for the training of the capable and ambitious young man or woman who



is looking forward to graduate or foreign study, positions or travel in foreign lands, translation work, foreign language teaching, or government service.

The ninth session of the School opens on Colby's Mayflower Hill campus on June 26 and closes on August 13, 1956. The tenth session is expected to be held between corresponding dates in the summer of 1957. Courses are offered at the elementary, intermediate, and advanced levels in French, German, Russian, and Spanish. Also offered are Period Courses in French Literature, a reading course in German for advanced degrees, and a course in Scientific German.

All courses are of the intensive type, covering in seven weeks one full year's work at the college level, with no less than one hundred and five hours of classroom instruction, and with a credit of six semester hours. The faculty, drawn from many colleges, is composed of native or bilingual instructors who have had wide experience and interest in teaching American students. They are chosen not only for their scholarly attainments but for their personalities and their ability to teach and handle students informally.

At this School the student will find an atmosphere that is particularly conducive to rapid progress in learning a foreign language. The School insists upon the exclusive use of the foreign language outside the classroom in so far as circumstances and previous training permit. The use of the spoken language is encouraged by grouping the students in the dormitories, according to the language they study. Teachers live in the dormitories, conduct the language tables in the dining halls, and participate in leisure-time activities such as sports, group singing, folk dancing, and various excursions. Special stress is laid upon this close association of instructor and student because these friendly contacts outside as well as in the classroom develop a feeling of genuine comradeship, which makes the student's use of the foreign language natural and spontaneous. Instruction is given in small classes so that each student can participate constantly in the classroom exercises and can receive frequent and individual attention. Mechanical aids, such as records which are prepared by instructors for individual classes, phonographs, and recorders, supplement special classroom techniques and individual conferences. Through this carefully integrated program of personalized teaching and planned recreation the student is offered a unique opportunity for the acquisition of a foreign language.

Between high school graduation in June and college matriculation in September, a high school graduate can earn a year of language credit toward the Colby degree.

All correspondence concerning the School should be addressed to Professor John F. McCoy, Director, Colby College Summer School of Languages, Waterville, Maine.

## FINANCES

The charges tabulated below constitute a student's major items of expenses for one semester. In addition there are the various expenses of a personal nature, student insurance, and the Student Activities Fee.

SEMESTER CHARGES		
<i>Item</i>	<i>Amount</i>	<i>Payable</i>
Tuition, 5-course program	\$400.00	\$50 before August 1, balance before registration
Room, dormitory	110.00	Semester Bill*
Board, College dining hall	200.00	\$50 before registration, balance on Semester Bill*
	\$710.00	

\* The Semester Bill is issued four to five weeks after registration and is due approximately two weeks after date of issue.

## ADVANCE PAYMENTS

No formal bills are issued for the following items:

### ADMISSION

Non-refundable deposit of \$50 due on or before acceptance date. (See page 15.) This deposit is later credited toward tuition due prior to registration.

### TUITION DEPOSIT

Non-refundable deposit of \$50 required of all upperclass students on or before August first each year. Room reservations and places in their respective classes will not be held for students failing to make this deposit. For new students the \$50 admission deposit covers this item.

### BOARD DEPOSIT

Students boarding in College dining halls must make an advance payment of \$50 prior to registration for each semester.

### ROOM DEPOSIT

All upperclass students must, in order to reserve a room for the following college year, make a \$10 deposit on or before May first. This deposit is later credited toward room charge on the fall Semester Bill. The deposit will be refunded if the request for a room reservation is withdrawn before August first.

**TUITION**

The tuition charge is \$400 per semester for a five course program. The semester per course charge is \$80. Tuition must be paid in full prior to registration for each semester.

**INSURANCE**

Accident and Sickness Insurance premium of \$15 for the college year must be paid in advance of first semester registration.

**ROTC DEPOSIT**

Deposit of \$15 required of all men students enrolled in the Air Force ROTC. This deposit is due in advance of registration and is refundable at the end of each year upon surrender of all ROTC equipment.

**SEMESTER BILL**

Charges for items not due in advance of registration are included on a Semester Bill issued shortly after the opening of each term. This bill becomes due approximately two weeks from date of issue. Included are charges for room, board (if at a college dining hall), extra courses, student activities, and such miscellaneous items as the chemistry breakage deposit and the charge for the use of electrical appliances. Deduction is made for any prepayments on items charged.

**BOARD**

Board in college dining halls is charged at the rate of \$200 per semester. Dining halls are maintained in Roberts Union and in the Women's dormitories. All resident women and resident freshman men are required to board at the College. Upperclass men electing to board at the College must pay the board charge for an entire semester and may not discontinue boarding prior to the end of the term.

**ROOM**

Room in college dormitories is charged at the rate of \$110 per semester. All students are required to live in college housing facilities unless excused by the Dean of Men or the Dean of Women. Excuses may be granted only for students living at home or working in families for their rooms under arrangement specifically approved by the respective deans. Dormitory reservations for men students are made through the office of the Dean of Men and for women students through the office of the Dean of Women.

### ACTIVITIES FEE

At the request of the students themselves a Student Activities Fee is collected annually for financing various student activities. This fee is charged on the first semester bill except for students in attendance for the second semester only who are charged a proportionate fee on the second semester bill. This fee is compulsory with no items deductible. The student organizations supported and the amount of the fee may vary from year to year. The fee for 1955-56 will be \$17.50 for men and \$19.00 for women, allocated as follows: Colby Echo \$3.25; Colby Oracle \$6.00; Class Dues \$1.25; Inter-Faith Association \$1.75; Music \$4.50; Student Government \$.75; and for women, Student League \$1.50.

### HEALTH SERVICE

Free service in the College Infirmary is restricted to a total of two weeks in any college year. Students are charged at the rate of \$2.50 per day for infirmary care beyond the two week free period. Infirmary meals are charged at the rate of \$2 per day for non-boarding students. There is no additional charge for infirmary meals for students regularly boarding at the College.

The health services are described in detail on page 30 and also in the Colby Gray Book.

### ACCIDENT AND SICKNESS INSURANCE

All students must be insured in the Student Accident and Sickness Insurance plan unless they have comparable coverage elsewhere. Students seeking exemption from this compulsory coverage must make written application for waiver at the office of the Treasurer prior to the opening of College. The premium of \$15 for the college year must be paid in advance of first semester registration. Details of the insurance plan are mailed to all parents during the summer.

### MISCELLANEOUS

The fee for extra courses beyond the normal load of five courses is \$80 per semester course.

In chemistry courses, students are required to pay for all apparatus broken or lost. A chemistry breakage deposit of \$10 per course is charged on the first semester bill and any unused balance is refunded at the end of the year.

For the use of electrical facilities beyond those installed in dormitory rooms extra charges are made in accordance with rates established by the Superintendent of the Buildings.

All men students living in college dormitories must pay a \$10 dormitory deposit which will be included on the first semester bill.

All expenses resulting from damage to or loss of college property in the dormitories will be charged against these deposits except in cases where the responsible students can be identified. The unused portion of these deposits is refunded on a prorated basis at the end of the year.

All students other than transfer students are required to have paid to the College the equivalent of eight semesters full tuition before being granted a degree.

**PAYMENT OF BILLS**

Regulations affecting the payment of college bills are established by the Board of Trustees and the College Treasurer is charged with the duty of enforcing these regulations impartially. Unless payment is made in accordance with the Treasurer's specific understanding with the student, the regulations require that the student be excluded from classes until payment is made and that a \$2 fine be imposed for failure to arrange with the Treasurer, prior to the due date, for a satisfactory plan of payment. Students excluded from classes under this rule for longer than ten class days will be suspended from college for the remainder of the semester.

Concerning college bills, students and parents must deal directly with the College Treasurer, as no other officer of the College has authority over their collection.

Tuition and board deposit must be paid in full before a student is permitted to register or attend classes. No formal bill is issued for these items. This catalog statement constitutes notice that they must be paid in advance. The College Treasurer cannot permit deferred payment of tuition or board deposit. However, at his discretion, the Treasurer may grant partial extension for a brief period on the Semester Bill.

**REFUNDS**

To students drafted into the Armed Services before the end of a semester, a pro-rata refund of tuition, board, room, and fees will be made.

To all other students, in case of voluntary withdrawal, refund of tuition and room rent is made according to the following schedule:

During first two weeks of classes . . . . .	80% refunded
During third week of classes . . . . .	60% refunded
During fourth week of classes . . . . .	40% refunded
During fifth week of classes . . . . .	20% refunded
After five weeks of classes . . . . .	no refund

Refund of the payment made for board to a student who withdraws either voluntarily or involuntarily, will be made at the rate of \$9 per week for the incomplete portion of the semester.

Whenever a student is required to withdraw because of unsatisfactory conduct or scholarship, no refund will be made other than for board.

### FINANCIAL AID

Colby College has traditionally taken pride in the number of its students with limited financial resources who have been assisted in receiving a college education. Not a few of the most distinguished alumni of this college received scholarship aid and worked their way through the four years. Colby annually distributes financial aid in excess of \$130,000 in the form of scholarships, Woodman grants and college employment. The amount given in the first two categories represents the cash income from invested funds given for this purpose by generous individuals and organizations, throughout Colby's long history. Recipients, therefore, are definitely under a moral obligation to fulfill the expectations of these unseen benefactors.

A student needing financial help should write to the Director of admissions asking for a copy of the bulletin entitled *Information on Financial Aid*. This bulletin explains all our different forms of aid and outlines the procedure to be followed by the applicant.

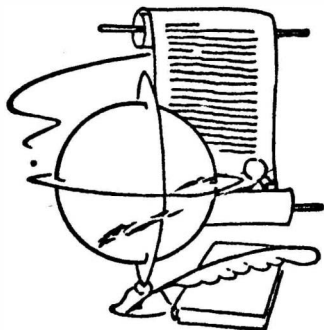
Employment in the College consists of work in the library, in several academic departments and administrative offices, in dining room and kitchen service, in bookstore, student unions, maintenance, and other assignments. Prospective students applying for financial aid who are willing to accept employment may so designate on the financial aid application form.

Pre-matriculation aid (that is, aid awarded in advance of a student's entrance and applicable to the expenses of freshman year) is applied for at Colby through the College Scholarship Service of the College Entrance Examination Board. The applicant inquiring from the Colby Director of Admissions about scholarship or other financial aid is supplied with a form, to be filled out and sent, not to the college, but to the College Scholarship Service at Princeton, N. J., which gathers such information for more than one hundred colleges subscribing to the service. On this single form the student may thus apply for aid to several different colleges. Upon receiving information on all applying cases from the College Scholarship Service, the Colby Committee on Financial Aid will proceed to make its awards. Every applicant for Colby aid will be notified as early as possible whether he or she can be granted aid and of what kind and amount.

### APPLICATION FEE

A non-refundable application fee of \$5 must accompany each application for admission to Colby College effective with applications for entrance in the fall of 1957 and thereafter.

# CURRICULUM



**HUMANITIES**  
**SOCIAL SCIENCES**  
**NATURAL SCIENCES**  
**SCIENCES**  
**AIR SCIENCE**  
**HEALTH AND PHYSICAL EDUCATION**

# Curriculum 1956-1957

The description of courses in the following pages is classified by divisions, and sub-classified by subjects in the following order:

## DIVISION OF HUMANITIES

Bibliography, Greek, Latin, English, Fine Arts, Music, French, German, Portuguese, Spanish

## DIVISION OF SOCIAL SCIENCES

Social Science, Business Administration, Economics, Sociology, Education, Psychology, History, Government, Philosophy, Religion

## DIVISION OF NATURAL SCIENCES

Biology, Chemistry, Geology, Mathematics, Physics

## DIVISION OF AIR SCIENCE

Air Science and Tactics

## DIVISION OF HEALTH AND PHYSICAL EDUCATION

Physical Education

Courses as announced are subject to withdrawal at the discretion of the college administration.

Unless otherwise restricted any course may be elected by a student with the stated prerequisite.

## NUMBERING SYSTEM

Each course is designated by a number with three digits.

The *first digit* indicates the classes to which a course is open:

- 1 — open to freshmen
- 2 — open to no class below sophomore
- 3 — open to no class below junior
- 4 — designed primarily for seniors

The *second digit* indicates whether the course is a year-course or otherwise:

- 0 — either semester of a year-course
- even number (2, 4, 6, or 8) — one of two closely related semester courses
- odd number (1, 3, 5, 7, or 9) — an independent semester course



The *third digit* indicates whether a first semester or a second semester course:

odd number — first semester course

even number — second semester course

The letter “d” after a course number indicates that the course is repeated each semester.

The letter “e” after a number indicates an “E” course.

A year-course (one with zero as its second digit) extends throughout the college year, and may not be dropped at midyear without loss of credit; nor can it be entered at any time except at the beginning of the year. In a year-course the mark recorded at midyear is tentative and merely indicates the student’s standing at that time. The end-of-the-year mark is the *only finally recorded* mark for the course, and no credit is given until that mark is recorded.

Two closely related semester courses (those with an even number as the second digit) are so constructed that the second may not be taken without completion of the first, except by special permission of the department offering the courses. A mark of “E”, at the discretion of a department, may be given for the first of two related semester courses, provided the course is so designated under the course description in the current catalog. A mark of “E” designates a mark from 55 to 59, and indicates that the deficiency may be made up by satisfactory completion of the second of two related courses in the immediately following semester. When thus made up, the first semester mark is changed to one determined by the instructor. An “E” course finally carries a permanent mark for each semester, whereas a year-course carries only one permanent mark at the end of the year.

[ ] Brackets indicate that the course will not be offered in 1956-57.

\* An asterisk indicates that the course will not be offered in 1957-58.

† A dagger indicates that the course will probably be offered in 1957-58.

Graduation requirements at Colby are no longer in terms of semester hours, but rather in terms of courses and half-courses. In order to make it plain, however, that certain courses carry more than the usual number of semester hours, wherever that term is the unit requirement, those courses are so designated in the course descriptions.

Schedule of hours and rooms, for courses listed in this section of the catalog, is available at the Recorder's office.

On the following pages listing the courses offered in each department, each statement of prerequisite *omits mention of class restriction, because the first digit of the course number gives that information.* Likewise, *e* attached to a number indicates that it is an "E" course.

**DIVISION OF HUMANITIES**

*Chairman, ASSOCIATE PROFESSOR STRONG*

**DIVISIONAL COURSES****101, 102. PROBLEMS IN CREATIVE THINKING  
(Freshman Section)**

A section of 301, 302, described below, especially adapted for a number of selected freshmen.

**221e, 222. HUMANITIES**

A synthesis of the arts of communication and ideas. (Art, Music, Literature, and Philosophy) historically grounded in post-Roman western civilization, showing the basic unity of purpose of the various arts as well as their unique contributions. Special emphasis is placed on the realization of the aims and ideals of each historical period or epoch, with backward glances at primitive and early western cultures and their influences. The course deals directly with the sources rather than with critical studies about them.

**301, 302. PROBLEMS IN CREATIVE THINKING  
(Upperclass Section)**

A course designed to stimulate students to creative thinking through the exploration of problems developed by the class. Although the upperclass and the freshman sections employ the same method, they operate independently. The content of each is divided into five units, each taken from a different field (science, the arts, philosophy, etc.) and directed by a member of the faculty in the field concerned. The students are presented with a general problem area rather than with a specific problem, and they are encouraged to develop hypotheses rather than to seek the opinion of authority.

*Messrs. Scott, Clark, and Associates*

**BIBLIOGRAPHY**

*Professor Humphry and Assistant Professor Libbey*

**312. BIBLIOGRAPHICAL MATERIALS AND  
MAKING OF BOOKS**

The sources and methods of library research, with the needs of the prospective graduate student especially considered. The develop-

ment of alphabets and writing, of manuscripts, printing and libraries.

Prerequisite: junior standing at least; sophomores by permission.

### CLASSICS

Courses offered in Greek and Latin during 1956-57 will be announced after the appointment of a faculty member in that department, to be made before the opening of the college year in September, 1956.

### ENGLISH

*Chairman, PROFESSOR CHAPMAN*

*Professors Weber and Chapman; Associate Professors Alice Comparetti and Benbow; Assistant Professors Sutherland, Cary and Harrier; Messrs. Jellison, Witham, Iorio, Baier, Oliver, MacKay and Yokelson*

Requirements for majoring in English Literature are: in the sophomore year, English 223, 224 and History 243e, 244; in the junior year, two full year period courses or their equivalent in semester courses, one year of which must be in periods before 1800; in the senior year, English 411, 412 and one full year period course or its equivalent in semester courses. Those courses classified as period courses are: 311, 312, 313, 314, 316, 317, 318, 321, 322, 343, 344, 351, 352, 413, 421, 422.

Requirements for majoring in American Literature are: in the sophomore year, English 221e, 222 and History 281e, 282; in the junior year, English 351, 352 and one year of English literature in periods before 1800; in the senior year, English 343, 344 and English 421, 422. English 391 and 392 are considered as period courses for American Literature majors and are recommended.

#### 121e, 122. ENGLISH COMPOSITION

Training in clear, accurate, and intelligent use of the English language. Required of all freshmen.

*Mr. Benbow and Staff*

#### 141, 142. GENERAL SPEECH

A general course in the principles of composition and oral delivery of speeches.

*Mr. Witham and Mr. Oliver*

#### 221e, 222. INTRODUCTION TO LITERATURE IN ENGLISH

A general introduction to literature in the English language through a study of selected English and American authors. Required of all sophomores who are *not* English Literature majors. Sophomore English Literature majors must elect English 223, 224.

Prerequisite: English 121, 122.

*Mrs. Comparetti and Staff*

## 223, 224. THE ROMANTIC REVIVAL

English literature from 1798 to 1832: Coleridge, Wordsworth, Byron, Keats, Shelley, and their prose contemporaries. An introductory course required of sophomores who are beginning a major in English Literature.

Prerequisite: English 121, 122.

*Mr. Chapman*

## 241e, 242. SOPHOMORE COMPOSITION

A course of further practice in writing, *required* of students who pass English 121e, 122 without attaining a mark of at least "C."

*Instructor*

## 251. ARGUMENTATION AND DEBATE

A study of the principles of argumentation: analysis, evidence, reasoning, fallacies, and briefing, with application in public speaking and debate.

Prerequisite: English 141 or its equivalent.

*Mr. Oliver*

## 253. ORAL INTERPRETATION

Principles of selection, analysis, and preparation of prose, poetry, and drama for oral presentation before an audience.

*Mr. Witham*

## 254. ADVANCED SPEECH

Principles of composition and oral presentation of extended informative and inspirational speeches. Emphasis placed upon practical problems encountered in a variety of speaking situations.

Prerequisite: English 141, 142; or their equivalent.

*Mr. Witham*

## 281, 282. A SURVEY OF THEATRE

Study of Theatre as an Art, and as an interpretation of civilization. In the second semester, study and practice of play production.

Prerequisite: English 121, 122.

*Mr. Jellison*

## 311. CHAUCER

A study of *The Canterbury Tales* and *Troilus and Cressida*.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Harrier*

**\*312. THE EARLIER RENAISSANCE**

A study of a few major prose works of the Renaissance such as *Utopia* and *The Prince*, early fiction, and a study of Petrarchan, Platonic, and Ovidian elements in poetry.

Prerequisite: English 221, 222; or 223, 224. *Mr. Harrier*

**313. TUDOR AND STUART DRAMA**

A study of the development of English drama in the Renaissance and of Shakespeare's contemporaries. Attention will be focused on major plays and major dramatists including Kyd, Marlowe, Jonson, Webster, and Ford.

Prerequisite: English 221, 222; or 223, 224. *Mr. Benbow*

**314. THE LATER ENGLISH RENAISSANCE**

An intensive study of selected writers of the later English Renaissance, including Donne, Herbert, Marvell, Herrick, Jonson, Dryden, and Bunyan.

Prerequisite: English 221, 222; or 223, 224. *Mr. Benbow*

**316. MILTON**

A study of Milton's poetry and prose.

Prerequisite: English 221, 222; or 223, 224. *Mrs. Comparetti*

**317. THE AGE OF POPE**

A study of selected works of Swift, Pope, Fielding, and other major English authors of the first half of the eighteenth century.

Prerequisite: English 221, 222; or 223, 224. *Mr. Sutherland*

**318. FROM JOHNSON TO BLAKE**

A study of major works of English literature written between 1750 and 1798. Although this course is a continuation of work begun in English 317, it may be elected independently.

Prerequisite: English 221, 222; or 223, 224. *Mr. Sutherland*

**321, 322. FROM BROWNING TO HARDY**

English literature of the Victorian period, from 1832 to 1900.

Prerequisite: English 221, 222; or 223, 224. *Mr. Weber*

## 341, 342. SURVEY OF AMERICAN LITERATURE

Historical survey of American literature from Colonial times to the present. Designed for non-major students interested in the study of our native literature.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Iorio*

## 343, 344. MAJOR AMERICAN ROMANTICS

A study of the Golden Age of Romanticism in American literature. In the first semester, representative works of Poe, Emerson, Thoreau; in the second semester, Hawthorne, Melville, and Whitman. The first semester may be taken alone but is a prerequisite for the second.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Cary*

## 351. EARLY AMERICAN AUTHORS

Selected prose and poetry from the Colonial period, the Age of Reason, and the Pre-Romantic movement in American literature.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Cary*

## 352. THREE AMERICAN NOVELISTS

Significant works of Mark Twain, Henry James, and Stephen Crane are read as forerunners of the social, psychological, and naturalistic fiction of the twentieth century.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Cary*

## 361, 362. THE ENGLISH NOVEL

Readings in the major novelists of the British tradition. In the first semester, Defoe to Dickens; in the second, Thackeray to Joyce. Designed especially for non-majors.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Cary*

## [372. MODERN BRITISH AND AMERICAN DRAMA]

Outstanding plays by twentieth century British and American dramatists, with particular attention to Continental influences. Primarily for non-majors.

Prerequisite: English 221, 222; or 223, 224.

## 381, 382. WRITERS' WORKSHOP

A course designed for juniors and seniors who are eager to do original work and who desire critical analysis and disciplinary guidance of their writing. All forms of composition will be accepted—fiction, poetry, and essays.

Prerequisite: English 221, 222; or 223, 224.

*Mr. Harrier*

### 391. INTRODUCTION TO SHAKESPEARE'S COMEDIES AND HISTORIES

Reading and discussion of selected comedies and histories from the range of Shakespeare's plays. A course designed for non-majors, but open to American Literature majors.

(Students may not receive credit for both English 391 and 411.)

Prerequisite: English 221, 222; or 223, 224. *Mr. Benbow*

### 392. INTRODUCTION TO SHAKESPEARE'S TRAGEDIES

Reading and discussion of Shakespeare's tragedies. A course designed for non-majors, but open to American Literature majors.

(Students may not receive credit for both English 392 and 412.)

Prerequisite: English 221, 222; or 223, 224. *Mr. Benbow*

### 411. SHAKESPEARE'S EARLIER PLAYS

An introduction to the study of Shakespeare with an intensive study of the histories, romantic comedies, and early tragedies.

Prerequisite: English 221, 222; or 223, 224. Required of seniors majoring in English Literature. *Mr. Benbow*

### 412. SHAKESPEARE'S LATER PLAYS

An intensive study of the problem comedies, tragedies, and romances.

Prerequisite: English 221, 222; or 223, 224. Required of seniors majoring in English Literature. *Mr. Benbow*

### 413. HISTORY OF LITERARY CRITICISM

A study of the classical backgrounds and of the development of English criticism. (Open to juniors by permission.)

Prerequisite: English 221, 222; or 223, 224. *Mrs. Comparetti*

### 421, 422. CONTEMPORARY LITERATURE

English and American literature of the twentieth century. An introduction to the most important authors since 1914, and a detailed study of one author by each student each semester. (Although this is a continuous course, either semester may be elected separately by qualified students.)

Prerequisite: English 221, 222; or 223, 224. *Mr. Chapman*



**FINE ARTS AND MUSIC***Chairman, PROFESSOR COMPARETTI***ART***Professor Carpenter and Mr. Miller*

Major requirements: eight semester courses in Art, including two advanced semester courses in art history or criticism, Art 231, and ordinarily Art 211. In addition, two semester courses in Classical Civilization or European history.

## 121, 122. INTRODUCTION TO ART

Method of approach to the understanding of architecture, sculpture and painting, and a general historical treatment of European Art.

**\*211. THEORY AND PRACTICE OF DRAWING**

The practice of drawing, with discussions and occasional lectures. Limited to 30 students.

Prerequisite: General aptitude.

**\*212. ADVANCED DRAWING**

A continuation of the work begun in 211, with more complex problems. Limited to 15 students.

Prerequisite: Art 211.

† [231. THEORY AND PRACTICE OF DESIGN;  
INTRODUCTION TO PAINTING]

Problems in design, with an emphasis on color. Studio course with discussions and lectures. Limited to 30 students.

Prerequisite: General aptitude.

† [232. INTRODUCTION TO PAINTING]

A continuation of 231, with more complex problems. Limited to 15 students. Though not prerequisite, Art 211 and 212 will be found valuable in this course.

Prerequisite: Art 231.

**\* 311. ART OF THE RENAISSANCE**

The art of the fifteenth and sixteenth centuries in Italy, with emphasis on the major painters and sculptors.

Prerequisite: Art 121, 122 or permission of the instructor.

## \* 312. BAROQUE ART

The art of the seventeenth and eighteenth centuries, with emphasis on the major painters.

Prerequisite: Art 121, 122 or permission of the instructor.

## † [313. MODERN ART]

In this course special attention will be given to French painting of the nineteenth and twentieth centuries.

Prerequisite: Art 121, 122 or permission of the instructor.

## 321, 322. STUDIO WORK

Individual work in oil painting. This course may be repeated in a second year with the undertaking of different problems.

Prerequisite: Art 211, 212, 231, 232 and special permission.

## 412. PROBLEMS IN ART CRITICISM

Seminar course primarily for seniors majoring in the department. Practice in employing critical method, reading, and discussions of various approaches to aesthetics and criticism will be directed toward study of the present state of knowledge in this field.

## MUSIC

*Professor Comparetti and Assistant Professor Ré*

Major requirements: eight semester courses in Music including 111, 112, 211, 212; History 121, 122 and either French 103, 104 or German 103, 104. Students planning graduate work in musicology are advised to elect both languages.

## 101, 102. HISTORY AND APPRECIATION OF MUSIC

Survey of the art of music, with particular reference to matters of style and historical background; illustration and discussion of vocal and instrumental works. First semester, from the beginning to 1750; second semester, from 1750 to the present time.

*Messrs. Comparetti and Ré*

## 111. THEORY AND PRACTICE OF MUSIC

A course in musical notation, scales, intervals and chord structure, elements of music design and harmony.

Limited to ten students.

*Mr. Ré*

## 112. HARMONY

Harmonization of given and original melodies; analysis of compositions selected from major composers.

Prerequisite: Music 111 or equivalent.

*Mr. Ré*

## 211. COUNTERPOINT

A course dealing with the principles of melodic combinations. Illustrations from major works of contrapuntal art.

Prerequisite: Music 111, 112.

*Mr. Ré*

## 212. ADVANCED COUNTERPOINT

Continuation of 211 with emphasis on original application of contrapuntal principles. Composition of inventions, fugues and other forms.

Prerequisite: Music 111, 112, 211 and permission of instructor.

*Mr. Ré*

## [301, 302. THE VIENNESE CLASSICISTS]

Emphasis on the instrumental works of Haydn, Mozart, Beethoven and Schubert. Study of forms and reading of scores.

Prerequisite: Music 101, 102, 111, 112 and permission of instructor.

## 305, 306. OPERA AND ORATORIO

The history of opera and oratorio. Study of famous representative works and techniques.

Prerequisite: Music 101, 102, 111, 112.

*Mr. Comparetti*

## APPLIED MUSIC

Private lessons in one of the following instruments — piano, organ, violin, viola, violoncello and bass viol — and in voice, are available at additional cost. To fulfill credit requirements, students must have one lesson and practice a minimum of six hours each week. There is no credit for the Freshman year. Thereafter one semester of course credit for each three semesters can be applied toward requirements for the college degree.

Students desiring private instruction in piano are referred to Mr. Comparetti; in voice to Mrs. Edward J. Colgan, 11 Gilman street and Mr. Roger Nye, 17 Silver Street, Fairfield; and in stringed instruments to Mr. Walter Habenicht and Mr. Max Cimbollek.

For participation in the College Glee Clubs, the Symphony Orchestra and the College Band, a student may receive credit for a one year course provided he is an active member of one of the above organizations through four years in college and has by his Senior year completed requirements in any one course offered by the Department of Music. There is no credit for the Freshman year or for any period less than the four years of active participation. If this credit is applied to the requirement for graduation, as one of the twenty courses required, payment must be made on the established per course basis.

The Carnegie library of musical recordings is available to all students of the College; listening hours to be arranged.

## MODERN FOREIGN LANGUAGES

*Chairman, PROFESSOR MCCOY*

*Professor McCoy; Associate Professors Strong, Smith, Bither, and Kellenberger; Assistant Professors Schmidt, Biron, Holland and Brady; Messrs. Ullman and Kendris*

### FRENCH

Major requirements: French 105, 106; 221, 222, and any two of the three French courses: 343, 344; 345, 346; 347, 348; German 225, 226; History 121, 122. A student desiring certification for teaching French must also include French 311 and 414. When computing the "C" average, all courses taken in the Department are included.

Note: In French 101, 102; 103, 104; 105, 106; and 107, 108 students are allocated on the basis of their achievement in French as indicated by placement tests, and their general ability and promise to do satisfactory work as indicated by their previous record in school or college.

#### 101, 102. ELEMENTARY FRENCH

Introduction to the language; pronunciation; grammar; composition; conversation; vocabulary building; reading of easy French; collateral reading. One hour per week of language laboratory.

*Mr. Kellenberger and Staff*

#### 103, 104. INTERMEDIATE FRENCH

Review of grammar and syntax; composition; conversation; intensive reading of prose and poetry; collateral reading; systematic study of vocabulary and idioms.

Prerequisite: French 101, 102 or two years of high school French.

*Mr. Smith and Staff*

## 105, 106. READINGS IN FRENCH LITERATURE

A study of some of the masterpieces of French literature from the Middle Ages to the present day, with biographical sketches of the authors read. Translation, class discussion, collateral reading, composition. One hour per week of language laboratory, with emphasis on pronunciation, intonation, conversation, and development of a practical vocabulary. Conducted chiefly in French.

Prerequisite: French 103, 104 or three years of high school French.

*Mr. Biron and Staff*

[107, 108. ADVANCED COMPOSITION, CONVERSATION,  
AND READING]

Practice in speaking, writing, and reading French; prose and poetry; sight and collateral reading. One hour per week of language laboratory. Conducted chiefly in French.

Prerequisite: French 103, 104 or three years of high school French.

## 221, 222. GREAT WRITERS OF THE AGE OF LOUIS XIV

A study of the works of the principal authors of the seventeenth century, with particular emphasis on Corneille, Racine, Molière, and La Fontaine. Conducted chiefly in French.

Prerequisite: French 105, 106.

*Mr. Smith*

## 311. SPOKEN AND WRITTEN FRENCH

Reading, writing, and reciting French, with a view to developing fluency in expression. Phonetic training directed toward a correct accent. Intended primarily for advanced students and prospective teachers. Conducted in French.

Prerequisite: French 221, 222.

*Mr. Strong*

## 343, 344. FRENCH LITERATURE OF THE 18TH CENTURY

Characteristic words of Montesquieu, Buffon, Voltaire, Diderot, Rousseau, Marivaux, Beaumarchais, Abbé Prévost, Chénier, and others. Conducted chiefly in French.

Prerequisite: French 221, 222.

*Mr. Kellenberger*

## † [345, 346. FRENCH LITERATURE OF THE 19TH CENTURY]

A study of the various literary movements, and the major works of the leading poets, novelists, and dramatists of the nineteenth century. Conducted chiefly in French.

Prerequisite: French 221, 222.

## \* 347, 348. CONTEMPORARY FRENCH LITERATURE

The sources of contemporary French literature. Outstanding prose and poetic works of the twentieth century. The development of French drama since 1900. Conducted chiefly in French.

Prerequisite: French 221, 222.

*Mr. Smith*

## 412. ADVANCED SPOKEN AND WRITTEN FRENCH

A continuation of French 311, with more emphasis on free composition, originality of expression, and extemporaneous speaking. Conducted in French.

Prerequisite: French 311.

*Mr. Strong*

414. TEACHING OF FRENCH AND SPANISH  
IN THE SECONDARY SCHOOL

Problems and methods of teaching French and Spanish; readings, discussions, practice work, and criticisms. Counts as three hours in Education toward the Maine Professional Secondary Certificate. Conducted in English.

Prerequisite: French 221, 222 or Spanish 221, 222. *Mr. Strong*

[441, 442. COMPREHENSIVE SURVEY OF FRENCH  
LITERATURE]

Rapid but intensive study of the chief movements, writers and monuments of French literature from the earliest times to the present. Conducted chiefly in French.

Prerequisite: French 221, 222.

## 461, 462. FRENCH SEMINAR

Work of a more individual and original nature for advanced students; assigned readings; investigation of special subjects; written and oral reports; examinations.

Prerequisite: French 343, 344 or 345, 346 or 347, 348. *Staff*

## GERMAN

Major requirements: German 105, 106 or 107, 108; 225, 226; and any two of the five German courses: 343, 344; 345, 346; 421, 422; 441, 442; 461, 462; History 121, 122. When computing the "C" average, all courses taken in the Department are included.

NOTE: In German 101, 102; 103, 104; 105, 106; and 107, 108 students are allocated on the basis of their achievement in German as indicated by placement tests, and their general ability and promise to do satisfactory work as indicated by their previous record in school or college.

## 101, 102. ELEMENTARY GERMAN

Introduction to the language; pronunciation; grammar; composition; conversation; vocabulary building; reading of easy German; collateral reading. One hour per week of language laboratory.

*Mr. McCoy and Staff*

## 103, 104. INTERMEDIATE GERMAN

Review of grammar and syntax; composition; conversation; intensive reading of prose and poetry; collateral reading; systematic study of vocabulary and idioms.

Prerequisite: German 101, 102 or two years of high school German.

*Mr. Schmidt and Staff*

## [105, 106. READINGS IN GERMAN LITERATURE]

Readings in eighteenth, nineteenth, and twentieth century poetry, prose and drama. Masterpieces from some of the following: Lessing, Goethe, Schiller, the Romantics, Hauptmann, Sudermann, the contemporary writers. One hour per week of language laboratory, with emphasis on pronunciation, intonation, conversation, and development of a practical vocabulary.

Prerequisite: German 103, 104 or three years of high school German.

## 107, 108. CONVERSATION, COMPOSITION, AND READING

Practice in speaking and writing German; collateral reading in prose selected to meet the individual needs of students majoring in other fields such as the sciences, social sciences, and others. One hour per week of language laboratory. Conducted chiefly in German.

Prerequisite: German 103, 104 or three years of high school German.

*Mr. Schmidt*

## 225, 226. GERMANIC ARTS AND LITERATURES

The intellectual and artistic achievements of the Germanic peoples: Gothic, German, Austrian, Swiss, Dutch and Scandinavian, as revealed in their arts and literatures. Beowulf, Nibelungenlied, Lessing, Goethe, Schiller, Heine, Kleist, Grillparzer, Hebbel, Hauptmann, Mann, Ibsen, Undset, and others; architecture, music, painting, customs. Lectures, reports, and discussions; readings in English translation; no knowledge of the German language required.

*Mr. McCoy*

## [343, 344. GERMAN LITERATURE OF THE 18TH CENTURY]

The literature of the Classical Period: Klopstock, Wieland, Herder, Lessing, Goethe, and Schiller. Emphasis on a detailed study of the

masterpieces of Goethe and Schiller. Additional work will be required of any student who has passed a course beyond German 107, 108.

Prerequisite: German 105, 106 or 107, 108, and junior standing at least or special permission.

### 345, 346. GERMAN LITERATURE OF THE 19TH CENTURY

Characteristic works of representative men, including Novalis, Tieck, Schlegel Brothers, Eichendorff, Rückert, Körner, Uhland, Kleist, Heine, Ludwig, Grillparzer, Hebbel, and Hauptmann. Literary movements: Romanticism, Young Germany, Realism, Naturalism. Additional work will be required of any student who has passed a course beyond German 107, 108.

Prerequisite: German 105, 106 or 107, 108, and junior standing at least or special permission.

*Mr. Schmidt*

### [421, 422. GERMAN POETRY]

A general survey of German poetry, lyrical and dramatic, from the earliest times to the present. Additional work will be required of any student who has passed a course beyond German 107, 108.

Prerequisite: German 105, 106 or 107, 108, and 225, 226.

### [441, 442. COMPREHENSIVE SURVEY OF GERMAN LITERATURE]

Intensive study of the chief movements, writers, and monuments of German literature from the earliest times to the present.

Prerequisite: German 105, 106 or 107, 108, and 225, 226.

### 461, 462. GERMAN SEMINAR

Work of a more individual and original nature for advanced students; assigned readings; investigation of special subjects; written and oral reports; examinations.

Prerequisite: German 421, 422 or 441, 442.

*Staff*

## PORTUGUESE

### 211. ELEMENTARY PORTUGUESE

An introduction to the language through the medium of Spanish. Course designed to develop in one semester a working knowledge of the written and spoken language of Brazil.

Prerequisite: Spanish 103, 104 with a grade of A or B, or Spanish 105, 106, or current enrollment in Spanish 105.

*Mr. Holland*



## 212. LITERATURE IN PORTUGUESE

A study of some of the masterpieces of Portuguese and Brazilian literature, with special emphasis on the *Lusiads* of Camões.

Prerequisite: Portuguese 211.

*Mr. Holland*

## SPANISH

Major requirements: Spanish 105, 106; 221, 222; 341, 342; 347, 348; German 225, 226; History 121, 122. A student desiring certification for teaching Spanish must also include French 414. When computing the "C" average, all courses taken in the Department are included.

NOTE: In Spanish 101, 102; 103, 104; 105, 106; and 107, 108 students are allocated on the basis of their achievement in Spanish as indicated by placement tests, and their general ability and promise to do satisfactory work as indicated by their previous record in school or college.

## 101, 102. ELEMENTARY SPANISH

Introduction to the language; pronunciation; grammar, composition; conversation; vocabulary building; reading of easy Spanish; collateral reading. One hour per week of language laboratory.

*Mr. Bither and Staff*

## 103, 104. INTERMEDIATE SPANISH

Review of grammar and syntax; composition; conversation; intensive reading of prose and poetry; collateral reading; systematic study of vocabulary and idioms.

Prerequisite: Spanish 101, 102 or two years of high school Spanish.

*Mr. Bither and Staff*

## 105, 106. READINGS IN SPANISH LITERATURE

An introduction to some of the masterpieces of Spanish literature from the Middle Ages to the present day. Translation, class discussion, collateral reading, and grammar review. One hour per week of language laboratory, with emphasis on pronunciation, intonation, and comprehension and use of the spoken language. Conducted chiefly in Spanish.

Prerequisite: Spanish 101, 102 with a grade of A or B, or Spanish 103, 104. Open to Freshmen with three years of high school Spanish, and to those with two years of preparation, whose achievement, as indicated by the placement test, is superior.

*Mr. Holland and Staff*

## [107, 108. CONVERSATION, COMPOSITION, AND READING]

Practice in speaking, writing, and reading Spanish; prose and poetry; sight and collateral reading. One hour per week of language laboratory. Conducted chiefly in Spanish.

Prerequisite: Spanish 103, 104 or three years of high school Spanish.

## 221, 222. HISPANIC-AMERICAN LITERATURE

The development of Hispanic literature and civilization in the New World from the period of colonization through the contemporary period. Conducted chiefly in Spanish.

Prerequisite: Spanish 105, 106, or Spanish 103, 104 with the permission of the instructor. *Mr. Holland*

## 341, 342. SPANISH LITERATURE OF THE GOLDEN AGE

A study of the chief writers and works of the Classical Period: sixteenth and seventeenth centuries. Conducted chiefly in Spanish.

Prerequisite: Spanish 221, 222. *Instructor*

## 347, 348. CONTEMPORARY SPANISH LITERATURE

The chief literary movements of the nineteenth century, the Generation of 1898, and twentieth century developments. Conducted chiefly in Spanish.

Prerequisite: Spanish 221, 222. *Mr. Holland*

## 461, 462. SPANISH SEMINAR

Work of a more individual and original nature for advanced students; assigned readings; investigation of special subjects; written and oral reports; examinations.

Prerequisite: Spanish 341, 342 or 347, 348. *Staff*

## DIVISION OF SOCIAL SCIENCES

*Chairman, ASSISTANT PROFESSOR RAYMOND*

For details of the graduation requirement in Social Sciences see page 17. Not more than one course below the 200 level may be counted toward this requirement.

The content of History 121, 122 and Economics 221, 222 or 241, 242 have been integrated to provide an elective freshman-sophomore sequence.

Opportunity is offered for concentration in two interdepartmental majors as well as in the usual departmental subjects:

- (a) *History, Government, Economics*; Adviser, Mr. Pullen.

Major requirements: in the sophomore year, History 121, 122 (if not previously taken) and Economics 241, 242; in the junior year, History 281, 282, Economics 321, 322, and two semester courses in Government; in the senior year, Government 331, 332, two semester courses in history and two in economics.

- (b) *American Civilization*; Adviser, Mr. Gillum.

Major requirements: History 281, 282, and four additional semesters of American History; Government 331, and one additional semester in the field of American Government; English 341, 342, and two additional semesters of American Literature; Economics 221, 222 or 241, 242; Philosophy 352 and Religion 316.

## DIVISIONAL COURSES

### SOCIAL SCIENCE 121e, 122

#### SOCIAL THINKERS IN THE WESTERN TRADITION

Selected writings of six great social thinkers in Western civilization are studied during the year in this course, which is taught co-operatively by faculty members from the departments of Business Administration, Economics, History, and Philosophy. The class meets together once a week for a lecture, followed by two weekly meetings in discussion sections. The social thinkers to be considered in 1956-57 are Plato, John Calvin, John Locke, Adam Smith, John Stuart Mill, and Karl Marx.

*Open only to freshmen*

*Mr. Raymond and Staff*

**BUSINESS ADMINISTRATION**

*Acting Chairman, ASSOCIATE PROFESSOR WILLIAMS*

*Professors Eustis and Moore; Associate Professors Seepe and Williams; Assistant Professor Zukowski and Instructor.*

Major requirements: Business Administration 221, 222, 321, 322, 411, 414; Economics 241, 242; and one additional year-course or its equivalent in Business Administration (above the 200 level). Courses used in computing 70 average (see "Concentration," page 17): Economics 241, 242; and all Business Administration courses above the 100 level.

**221e, 222. ELEMENTARY ACCOUNTING**

Basic principles applicable to the construction of accounting records and preparation of financial statements for the principal forms of business organization. Examination of certain aspects of accounting theory and practice in the recording of transactions and preparation of statements. Two hours of class discussion and one laboratory period per week.

*Messrs. Moore and Zukowski*

**321, 322. CORPORATION FINANCE**

Study of business corporations through the promotion, organization, operation and expansion, or failure and reorganization stages of their development. Corporate securities are studied in detail.

*Mr. Zukowski*

**341, 342. ADVANCED ACCOUNTING**

Application of basic principles of accounting to special situations; intensive study of problems of asset valuation, accounting for equities, and determination of income and expense; study of cost accounting and budgetary control.

Prerequisite: Business Administration 221, 222 with satisfactory grade.

*Mr. Moore*

**343, 344. MARKETING**

A study of the distribution channels for various classes of consumers' and industrial goods, with emphasis on marketing institutions and their functions. In addition to its coverage of factual material, this course intends, through the use of case studies, to develop in the student the ability to make sound marketing decisions. Considerable time is given to advertising.

*Instructor*

## 351. HUMAN RELATIONS IN BUSINESS

Personnel management, formal and informal organization, authority and responsibility, and the relationship of the individual to others on the same and other levels in the business organization.

*Mr. Moore*

## † [352. BUSINESS STATISTICS]

Basic principles and methods of statistics and their application to business problems. The course includes: the presentation of statistical data, measures of central tendency, dispersion, correlation, trends, index numbers, significance, and quality control. A knowledge of algebra is desirable.

## 353. INDUSTRIAL MANAGEMENT

Case problems in the management of industrial enterprises. A study of principles of scientific management; basic philosophy of simplification, standardization, and automation; factors and significance of plant location and layout; principles of production control, price determination, maintenance and equipment policy, and the human problems of labor relations.

*Mr. Zukowski*

## 354. BUSINESS LAW

The course is designed to provide the student with an understanding of the principles of statutory and common law as they affect business relationships; with particular reference to such subjects as contracts, agency, property, sales, and negotiable instruments.

*Mr. Zukowski*

## 411. PERSONAL FINANCE

The fundamental principles and their application in the management of one's personal financial affairs; the role of savings, securities investment, home ownership, and forms of life insurance.

Prerequisite: senior standing, juniors by permission.

*Mr. Williams*

## 412. INVESTMENTS

The nature of investments with emphasis on the investment use of securities issued by both public authorities and private corporations.

Prerequisites: Business Administration 221, 222, 321, 322, 411.

*Mr. Williams*

## 414. BUSINESS POLICY

Integration of the functional courses in Business Administration through consideration of a wide range of case histories from the viewpoint of management.

Prerequisite: Business Administration 221, 222, 321, 322; Economics 241e, 242. Staff

**ECONOMICS AND SOCIOLOGY**

*Chairman*, PROFESSOR BRECKENRIDGE

*Professor Breckenridge; Associate Professor Pullen; Assistant Professors Birge and Barlow; Mr. Geib.*

Attention is invited to the opportunities for concentrating in combined majors: history, government, and economics; and American civilization.

**ECONOMICS**

Major requirements: Economics 241, 242, and eight additional semester courses in economics; two semester courses above the freshman level (except that History 121, 122 may be counted) in each of two related social sciences selected with the approval of the adviser. History 121, 122 in the sophomore year is strongly recommended, if not taken in the freshman year.

Students interested in business may substitute Business Administration 221, 222 or Business Administration 321, 322 for two of the eight semester courses in advanced economics required for the major, and may count the other of these two pairs of courses toward the requirement in related social sciences. They may, of course, elect additional courses in Business Administration.

Students who wish to be recommended by the Department for graduate work in economics should take Mathematics 123, 124, 221, 222, and must include the following advanced courses among the eight semester courses in advanced economics required for the major: Economics 332, 341, 342, 372, and 411. If a student intends to be a candidate for the Ph.D. degree, he should also acquire a reading knowledge of both French and German, and a working knowledge of elementary statistics.

In computing the required 70 average for the major, only courses in economics will be counted, except that Business Administration 221, 222 or Business Administration 321, 322 will be counted if one of these pairs of courses is substituted for two semester courses in advanced economics in fulfilling the major requirement.

## 221e, 222. THE AMERICAN ECONOMY

Designed especially for students majoring in the Division of Languages, Literatures and Arts, the Division of Science, and in Social Sciences other than Economics, Business Administration, and the combined major in History, Government and Economics, this course describes the structure and functioning of the American economy, and seeks to contribute to an understanding of the major present-day economic problems. Course 221 is prerequisite for 222.

## 241e, 242. PRINCIPLES OF ECONOMICS

An introductory course in the principles of economics and their applications to modern economic life. Required of majors in Economics, Business Administration, and the combined major in History, Government and Economics, and elective for others who meet the prerequisite.

Credit will be given for either Economics 221e, 222 or Economics 241e, 242, but not for both. Course 241 is prerequisite for 242.

## 321, 322. ECONOMICS OF GOVERNMENT REGULATION

A study of the role of government in economic life, with emphasis upon the regulation of competition and monopoly and of public utilities.

Prerequisite: Economics 221, 222; or 241, 242. Course 321 is prerequisite for 322. *Mr. Breckenridge*

## † [332. INTERMEDIATE ECONOMIC THEORY]

The construction of a consistent body of economic theory as a foundation for further economic analysis. Emphasis is placed upon some of the more important analytical concepts used in the determination of price and output for both the individual firm and the industry under varying conditions of competition and monopoly.

Prerequisite: Economics 221, 222; or 241, 242.

## \* 341, 342. MONEY AND BANKING

A study of the role of money, credit, and banking in the economic system, with emphasis on the structure and operation of commercial banking and the Federal Reserve System in the United States, and on monetary theory and business cycle theory and their application to the problem of economic stability.

Prerequisite: Economics 221, 222; or 241, 242. Course 341 is prerequisite for 342. *Mr. Pullen*

## † [352. TAXATION AND FISCAL POLICY]

A study of the American tax structure — federal, state and local — and of the economic effects of various types of taxes and of government fiscal policy.

Prerequisite: Economics 221, 222; or 241, 242.

## 361, 362. LABOR ECONOMICS

An analysis of the American labor movement emphasizing the development of unionism, union collective bargaining policies and

practices, labor legislation, and the economic aspects of some major problems of labor.

Prerequisite: Economics 221, 222; or 241, 242. Course 361 is prerequisite for 362. *Mr. Pullen*

\* 372. MAJOR ECONOMISTS, 1750 TO THE PRESENT

An examination and appraisal of the contributions of the major economists to the development of economic thought since the mid-eighteenth century. Extensive use of source material will be made.

Prerequisite: Economics 221, 222; or 241, 242.

*Mr. Breckenridge*

† [381, 382. INTERNATIONAL ECONOMICS]

A survey of international trade theory, international finance and balance of payments adjustments, with, in the second semester, a study of commercial problems and policy, particularly in the post-World War Two period.

Prerequisite: Economics 221, 222; or 241, 242.

† [391. COMPARATIVE ECONOMIC SYSTEMS]

A basic institutional comparison of the most important contemporary economic systems (capitalism, socialism, totalitarianism) as exemplified by the economies of the United States, the United Kingdom, and the U.S.S.R., including an analysis and evaluation of planned and unplanned economies.

Prerequisite: Economics 221, 222; or 241, 242.

411. SEMINAR IN CURRENT ECONOMIC PROBLEMS  
AND POLICIES

A study of current economic problems and policies considered in relation to their historical background and to the economic principles underlying them. *The New York Times* will be the text. Frequent oral and written reports will be required of each student.

Prerequisite: Economics 221, 222; or 241, 242; at least two additional semester courses in Economics; and permission of the instructor. *Mr. Breckenridge*

SOCIOLOGY

Major requirements: Sociology 221, 222, and eight additional semester courses in Sociology, including Sociology 311, 312; Economics 221, 222; and two semester courses in History.

Students planning to do social work should, at the beginning of their sophomore year, consult with the instructor concerning minimum requirements.



In computing the required 70 average for the major, all courses required for the major will be counted.

### 221e, 222. PRINCIPLES OF SOCIOLOGY

An introduction to the study of human society: its growth, institutions, activities and problems. The course attempts to synthesize the available knowledge and concepts necessary for a scientific understanding of our complex modern society. Course 221 is prerequisite for 222.

#### † [311. NORMATIVE SOCIAL THEORY]

A study of normative social theory with special emphasis upon such works as Plato's *Republic*, Owen's *A New View of Society*, and Bellamy's *Looking Backward*.

Prerequisite: Sociology 221, 222.

#### † [312. HISTORY OF SOCIOLOGICAL THEORY]

A survey of the history of sociology, and a critical examination of the systems of thought about society and human nature. The place of theory in social research will be emphasized.

Prerequisite: Sociology 221, 222.

### 331. INTRODUCTION TO SOCIAL WORK

This course is designed to provide the student with an adequate background for an understanding of the various theories, agencies, institutions, laws, material equipment and historical development of the field of social work. The problems of social work are studied in case summaries.

Prerequisite: Sociology 221, 222.

*Mr. Geib*

### \* 332. DELINQUENCY AND CRIME

Delinquency and Crime are studied in their social and cultural perspective; the conditions and situations which encourage and facilitate anti-social conduct, the philosophy and practice of punishment, and programs for reducing or eliminating delinquency and crime.

Prerequisite: Sociology 221, 222.

*Mr. Geib*

### \* 351. RACE AND MINORITY GROUPS

This course presents the major problems of race and minority groups in the modern world.

Prerequisite: Sociology 221, 222.

*Mr. Birge*

**\* 352. URBAN SOCIOLOGY**

Urban Sociology is an eclectic study of the city as a sociological phenomenon. This includes the historical and ecological development of the city, population and selective migration, group life and personality, and organization and disorganization of urban areas.

Prerequisite: Sociology 221, 222.

*Mr. Birge*

**† [361, 362. CULTURAL ANTHROPOLOGY]**

A course in introductory anthropology with special emphasis on the implications of the social and cultural experiences of primitive people for modern society.

Prerequisite: Sociology 221, 222. Course 361 is prerequisite for 362.

**\* 391. COLLECTIVE BEHAVIOR**

A social analysis of phenomena of collective behavior — crowds, public opinion, propaganda, and communication — and the forces which mold each. Special attention is given to the major mass media and their function in modern society.

Prerequisite: Sociology 221, 222, or permission of the instructor.

*Mr. Geib*

**392. THE FAMILY**

An historical and comparative study of family and marriage from an institutional point of view, including the relationship of the family to other aspects of culture.

Prerequisite: Sociology 221, 222.

*Mr. Geib*

**401, 402. SOCIOLOGY SEMINAR**

A seminar on the major problems of Sociology as a science. Much of the work will be devoted to individual projects.

Prerequisite: Senior standing, and permission of the instructor.

*Mr. Birge*

**EDUCATION AND PSYCHOLOGY**

*Chairman, PROFESSOR JOHNSON*

*Professor Johnson, Associate Professor Smith,  
and Assistant Professor Gillespie*

**EDUCATION**

All students who are interested in teaching should read the section of this catalog on page 109 under the title, *Preparation for Teaching*.

The College, through this department, offers four basic semester courses—Education 211, 212 and Education 311, 312—which are designed especially for prospective teachers. These courses meet the requirements of the Maine State Department of Education for the Two Year Provisional Secondary Certificate. That certificate is granted to college graduates who have completed twelve semester hours in Education and Psychology (no more than six of which may be in Psychology). Furthermore, these courses are acceptable in most states for credit toward secondary school certification. The student who is planning to teach in another state should study the specific requirements of that state and such information may be obtained from the state department of education of the state in question.

During the year, 1956-1957, opportunity for practice teaching in local high schools will be made available for those seniors who have maintained an average of B or better in their major fields of concentration and who have been recommended by their major department chairmen. A description of the practice teaching assignment will be found under the heading—Seminar in Education.

Students preparing for high school teaching should qualify in two subject fields, if possible. This may mean limiting the elections in any one subject to the minimum requirements for a major, and building up a second subject to approximate concentration. Both of these subjects should be such as are ordinarily taught in high school. With respect to this and other professional factors, candidates for teaching should consult with the staff of this department.

Special Methods Courses may be included among the courses presented for certification.

The Special Methods Course now offered is:

French 414. Teaching of French and Spanish in the Secondary School.

Candidates for positions as Directors of Physical Education are required to obtain a special certificate in the State of Maine; this requirement may be met by completing a year course in biology or physiology and Physical Education 311, 312.

### 211. INTRODUCTION TO EDUCATION

An orientation course especially designed for teaching candidates with the major emphasis placed upon teaching as a professional career. Topics in the areas of history and philosophy of Education will be discussed to give the student a frame of reference for a better understanding of present-day issues and practices.

*Mr. Smith*

### 212. THE AMERICAN HIGH SCHOOL

This course will consider the institution of the American High School with a discussion of such topics as the aims, functions, and curriculum organization of secondary education.

*Mr. Smith*

### 311. HUMAN GROWTH AND EDUCATION

A course in developmental psychology for prospective teachers with emphasis upon the biological, psychological, and social aspects

of child development from the pre-natal stages through adolescence. Observational studies of young children will be required.

Prerequisite: Education 211, 212, or special permission.

*Mr. Smith*

### 312. EDUCATIONAL PSYCHOLOGY

The central topic of this course is the teaching-learning process. A systematic study will be made of the applications of psychological principles to the classroom and school experiences. Observations in local schools will be required.

Prerequisite: Education 311, or special permission. *Mr. Smith*

NOTE: Education 311 and 312 are courses designed for prospective teachers. The general student should elect Psychology 331 and 332 in the Department of Psychology. Education 311 and 312 may not be taken in addition to Psychology 331 and 332 for graduation credit.

### 421, 422. SEMINAR IN EDUCATION

This course is intended for the serious student capable of undertaking independent study of a special problem in the field of Education. Readings, field study, reports, and a final paper will be required.

During the year, 1956-1957, those students who are interested in practice teaching in local high schools must register for this course. Each semester of work carries *six semester hours of course credit* and one month of observation and teaching is required. The students will not be expected to attend regular classes at college during the practice period but they will be advised to keep in close contact with the college work through frequent consultations with the college staff. A student may elect either semester of the course for practice teaching.

Prerequisite: An average of B or better in the student's major subject; recommendation of the department chairman of the student's major field, and special permission of the instructor of this course.

*Mr. Smith*

## PSYCHOLOGY

Major requirements: Psychology 221e, 224; 353; 371d; 471 and three additional semester courses in psychology; Biology 101, 102 or Sociology 221, 222.

### 221e. GENERAL PSYCHOLOGY

An introduction to the biological and social foundations of behavior with attention given both to facts and to methods of observation; covering our perception of the world, emotion and motivation, learning and memory.

*Mr. Johnson and Mr. Gillespie*

## 222. APPLIED PSYCHOLOGY

A terminal continuation of course 221e. This course may not be credited toward completion of a major in psychology and may not be offered, in addition to Psychology 224, for course credit.

Application of psychological techniques to problems of society and of the individual—in education, in industry, and in everyday life.

Prerequisite: Psychology 221e, or senior standing and permission.

*Mr. Johnson*

## 224. PSYCHOLOGICAL MEASUREMENT

A continuation of course 221e to be elected by all students contemplating a major in psychology. A prerequisite for advanced courses in the department. This course may not be offered, in addition to Psychology 222, for course credit.

An introduction to psychological measurement and experimental design including fundamentals of statistics, with applications to various areas in psychology.

*Mr. Gillespie*

## 331. CHILD PSYCHOLOGY

A genetic study of childhood from the prenatal period to adolescence; problems of adjustment to growth and to social environment; intensive study of recent research.

Prerequisite: Two semesters of psychology, or senior standing and permission.

*Mr. Smith*

## 332. ADOLESCENT PSYCHOLOGY

Growth and development during the adolescent period including discussion of such topics as the adolescent's relations with family, peer group, and culture; physical and intellectual development; vocational interests; attitudes and ideals. The case study method will be used in this course.

Prerequisite: Two semesters of psychology, or senior standing and permission.

*Mr. Smith*

## 353. TESTING IN PSYCHOLOGY

Types and uses of tests: problems and principles of test construction, administration, and interpretation. Representative instruments from various areas of psychology will be examined in detail.

Prerequisite: Psychology 224.

*Mr. Gillespie*

## 354. PERSONALITY AND SOCIAL PSYCHOLOGY

A survey of problems and theories in the related areas of personality and social psychology. Topics will include motivational theory, language, attitudes, the perceptual approach, culture and personality.

Prerequisite: Psychology 222 or 224.

*Mr. Gillespie*

## 371d. EXPERIMENTAL PSYCHOLOGY

Laboratory investigations of man's sensory and motor processes, perception, and learning.

Prerequisite: Psychology 224.

*Mr. Johnson*

## 451. HISTORY AND SYSTEMS OF PSYCHOLOGY

The historical development of modern psychology and the development of such systematic viewpoints as behaviorism, Gestalt psychology, and psychoanalysis.

Prerequisite: Three semester courses in psychology.

*Mr. Johnson*

## 471. SEMINAR: FIELDS OF PSYCHOLOGY

A survey of the major areas of psychological endeavor: clinical psychology and counseling, educational psychology, industrial psychology, teaching and research, giving consideration to type of work done and to training and qualifications necessary for entrance into each field. Designed for senior majors in psychology.

Prerequisite: Senior standing and permission.

*Staff*

## 492. PROBLEMS IN PSYCHOLOGY

Independent study of special problems in psychology. Intended for those students whose training and experience qualify them for self-motivated work in a specific area.

Prerequisite: Senior standing and permission.

*Staff*

**HISTORY AND GOVERNMENT**

*Acting Chairman, ASSOCIATE PROFESSOR GILLUM*

*Professor Newhall; Associate Professors Tompkins and Gillum; Assistant Professors Raymond and Berschneider; Messrs. Bridgman and Grubbs.*

Attention is invited to the opportunity for concentrating in (1) history, government, and economics; (2) American civilization. See page 68.

## HISTORY

Major requirements: Ten semester courses in history, including History 121e, 122 (unless special exemption is granted), and two semester courses in government.

## 121e, 122. HISTORY OF MODERN EUROPE, 1560 - 1957

An introductory survey of the main historical trends from the Renaissance to the present day, with special emphasis on the role of ideas in politics, as a background for the ideological and political problems of today.

Prerequisite: none; 121e, except for special permission, is prerequisite for 122. If necessary, enrollment in this course will be limited.

*Mr. Berschneider and Staff*

## 231. MEDIEVAL CIVILIZATION, 476 - 1300

A history of Western Europe from the decline of Roman unity to the Renaissance, with emphasis upon Catholic, Byzantine, and Moslem influences, as a study in which characteristic Western institutions took shape in a general social advance.

*Mr. Newhall*

## 232. RENAISSANCE AND REFORMATION, 1300 - 1648

An intellectual and cultural history of the period of transition from the medieval to the modern world.

*Mr. Newhall*

## 241e, 242. HISTORY OF ENGLAND

The major general developments in English history, from the Saxon Conquest to the present, primarily as a study in the evolution of a political society.

(Students may not receive credit for both History 241e, 242, and History 243e, 244.)

*Mr. Gillum*

## 243e, 244. SOCIAL AND CULTURAL HISTORY OF ENGLAND

English history, with particular attention to the social and cultural backgrounds of English intellectual and literary achievements.

(Students may not receive credit for both History 243e, 244, and History 241e, 242.)

Prerequisite: 243e is prerequisite for 244, except in cases of special permission.

*Mr. Gillum*

## [261, 262. CLASSICAL CIVILIZATION]

The cultures of Greece and Rome, and their contributions to the Western World.

281e, 282. HISTORY OF THE UNITED STATES,  
1492 TO PRESENT

United States history, from the Age of Discovery to the present day. Although chronological symmetry is maintained, a special effort is made to show the value of political, constitutional, diplomatic, social, and economic interpretations.

*Mr. Bridgman*

## 323, 324. DIPLOMATIC HISTORY OF EUROPE, 1815 - 1957

A study of the modern state system and the diplomatic background of the existing relations between and among the major world powers.

Prerequisite: History 121e, 122, or special permission.

*Mr. Newhall*

## † [331. MODERN IMPERIALISM]

An examination of the various theories explaining the overseas expansion of Europe and the United States from 1870 to the present. Special attention will be devoted to five or more case studies of imperialism in Africa and Asia.

Prerequisite: History 121e, 122, or special permission.

## 341, 342. HISTORY OF RUSSIA AND THE U.S.S.R.

The expansion of the Russian state and the political and social development of the Russian people under the Tsarist and Soviet regimes. Special emphasis on Soviet theories, institutions, and foreign policy.

Prerequisite: History 121e, 122; History 341 is prerequisite for 342; may also be taken by special permission.

*Mr. Raymond*

\* 343, 344. INTELLECTUAL AND CULTURAL HISTORY OF  
MODERN EUROPE

A study of the principal trends and leaders of new thought (Darwin, Mazzini, Marx, Nietzsche, Bakunin, Sorel, Freud, et al.) with emphasis on nineteenth and twentieth century intellectual and cultural developments.

Prerequisite: History 121e, 122, or special permission.

*Mr. Berschneider*



\* 353. HISTORY OF THE BRITISH EMPIRE,  
1815 TO PRESENT

The building of the Empire, its governmental and economic development, and its role in world affairs.

Prerequisite: History 121e, 122, or special permission.

*Mr. Gillum*

† [361, 362. ENGLISH CONSTITUTIONAL AND LEGAL HISTORY]

The origin and development of the institutions of government from the earliest times to parliamentary supremacy in modern England.

Prerequisite: two previous year courses in history or government, or special permission.

† [363, 364. TWENTIETH CENTURY EUROPE]

The political and economic history of Europe from 1900 to the present.

Prerequisite: History 121e, 122, or special permission.

372. THE FRENCH REVOLUTION AND NAPOLEON

An examination of European history from 1789 to 1815, with special emphasis upon political and social developments in France.

Prerequisite: History 121e, 122, or special permission.

*Mr. Raymond*

\* 374. HISTORY OF MODERN GERMANY

The governmental and economic development, the international influence, of Germany, from Bismarck to the present time.

Prerequisite: History 121e, 122, or special permission.

*Mr. Gillum*

\* 391. THE WESTWARD MOVEMENT, 1763 - 1896

The "West" from the close of the French and Indian War to the defeat of Bryan in 1896. Emphasis is placed upon the West as a laboratory for political and economic experimentation.

Prerequisite: History 281e, 282, or History 321e, 322.

*Mr. Bridgman*

394. SOCIAL AND CULTURAL HISTORY OF THE  
UNITED STATES, 1900 TO THE PRESENT

This course deals with the rapidly changing social organization and cultural assumptions of our people in the present century. Emphasis is given to the social structure of the corporation and the labor union.

Prerequisite: History 281e, 282, or History 321e, 322.

*Mr. Bridgman*

## 401, 402. HISTORY SEMINAR

Critical study and evaluation of sources and documents; methods of historical research, important historians, and some problems of the philosophy of history.

Prerequisite: concentration in history; B average in history courses; may also be taken by special permission.

*Mr. Berschneider and Staff*

## 411d. TOPICS IN HISTORY

A study of history through special topics.

Prerequisite: history major, and special permission.

*Staff*

## GOVERNMENT

## 221e, 222. FOREIGN GOVERNMENTS AND POLITICS

A comparative study of the backgrounds, institutions, and policies of the governments of Great Britain, France, Germany, Russia, etc., with stress on developments since World War II.

Prerequisite: History 121e, 122; Government 221e is prerequisite for 222; may also be taken by special permission.

*Mr. Grubbs*

## 321, 322. POLITICAL THEORY

A systematic survey of the history of political thought from Plato to Hitler, emphasizing the problems of change, authority, and governmental functions.

Prerequisite: History 121e, 122, or special permission.

*Mr. Raymond*

## 331. AMERICAN GOVERNMENT AND POLITICS

The organization and administration of the American national government.

Prerequisite: one year course, or equivalent, in history or government.

*Mr. Grubbs*

## 332. POLITICAL PROBLEMS

A study of select problems in modern politics. Conducted with a forum with guest lecturers.

Prerequisite: one year course, or equivalent, in history or government, or special permission.

*Mr. Grubbs*

## \* 335. POLITICAL PARTIES

A study of American political parties, with emphasis on campaigns and elections.

Prerequisite: one year course, or equivalent, in history or government.  
Mr. Grubbs

## [351. AMERICAN FOREIGN POLICY]

A survey of the historic principles of foreign policy, and modern problems.

## † [372. PUBLIC ADMINISTRATION]

An introduction to the study of the operational side of government with special attention to the American national government.

Prerequisite: Government 331, or special permission.

## 376. STATE AND LOCAL GOVERNMENT

An examination of the structure, development, and current problems of American state and local government.

Prerequisite: Government 331, or special permission.

Mr. Grubbs

## 412. RESEARCH IN UNITED STATES GOVERNMENT

Conducted as a seminar, with original research project required.

## PHILOSOPHY AND RELIGION

Chairman, PROFESSOR CLARK

*Professors Bixler and Clark; Associate Professor Osborne;  
Mr. Coffin and Instructor*

Two majors are offered in the department, one in Philosophy and the other in Philosophy and Religion.

Requirements for the major in Philosophy: *Philosophy* 211, 212 or 214, 331, 332, 381 or 382, and three further semester courses in Philosophy selected with the approval of the department.

Requirements for the major in Philosophy and Religion: *Religion* 111, 213, 214, 311, 381 or 382. *Philosophy* 112, 211, 331, 332 or 354 or 352, 372.

For the general student, recommended opening courses in Philosophy are as follows. *I.* The sequence, *Religion 111, Philosophy 112*, available especially for freshmen. *II.* For students first electing a Philosophy course at the sophomore level or higher, *Philosophy 211, followed by either Philosophy 212 or 214.* *III.* For able students interested in the historical development and the greatest figures of Western Philosophy, *Philosophy 331 and 332.*

## PHILOSOPHY

## 112. INTRODUCTION TO WESTERN PHILOSOPHY

Some of the great ideas of Western Philosophy and their bearing on the questions of contemporary thought. This course is a suitable sequel to Religion 111, *Introduction to Western Religion*.

Prerequisite: standing not higher than sophomore.

*Mr. Clark and Staff*

## 211. LOGIC

A study of the distinction between valid and invalid reasoning in common thought. An introduction to the logic of scientific method and to the role of logic in the varied forms of human thought. The syllogism, and other forms of valid inference.

Prerequisite: sophomore standing, but qualified freshmen may be accepted.

*Mr. Coffin*

## 212. PHILOSOPHY AND MODERN SCIENTIFIC THOUGHT

The philosophical implications of modern Astronomy, the Theory of Evolution in Biology and Geology, and some of the findings of recent Physics. The relationship between Science and Western Art and Ethics. A study of the relationship between Science and Religion.

Prerequisite: Philosophy 211 or consent of instructor.

*Mr. Coffin*

## 214. TYPES OF MORAL PHILOSOPHY

The quest for the "good life." A consideration of various theories relating to "good and bad," "right and wrong." Absolutism and relativism will be examined, and ethical naturalism, humanism, and rationalism will receive special attention. Selected religious ethics will also be considered.

Prerequisite: sophomore standing or higher.

## † [301, 302. ETHICAL ISSUES IN THE MODERN WORLD]

A course taught cooperatively by members of several of the departments in the Division of Social Science. A study of such controversial contemporary issues as ethics in politics, the profit motive, freedom and security, sexual morality and the family, values and standards in business and professional relationships. On each problem a variety of different sources of special knowledge will be consulted. Offered in alternate years with Philosophy 313, 314.

Prerequisite: a mark of 70 or better in each of two year-courses from two different departments in the Division of Social Science.

## 313. ETHICS AND THE SOCIAL SCIENCES

A study of the basis of judgment on questions of right and wrong; and of the way in which several of the arts and sciences may each make its contribution to the understanding of such questions.

*Mr. Clark*

## 314. PRESENT CONFLICTS IN POLITICAL PHILOSOPHY

The philosophies of Communism, Fascism, and of the leading current movements in Democratic social thought. Prominent philosophers from Hobbes to Rousseau who have contributed to these movements. Special emphasis on the systematic structure of the philosophies of the men studied, and on the relation of their ideas to present political and social problems.

*Mr. Clark*

## 331. HISTORY OF ANCIENT PHILOSOPHY

The movements of thought and the ideas of enduring significance in Greek philosophy from its earliest beginnings to its climax in Athens, and a consideration of the influence of Greek thought on the ancient Roman and Early Christian Worlds. Special attention will be given to the thought of Socrates, Plato and Aristotle.

## 332. HISTORY OF MODERN PHILOSOPHY

The study of European philosophy from Bacon to Bergson, with special attention to the works of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, Hegel, and Schopenhauer.

*Mr. Clark*

## 352. AMERICAN THOUGHT

From Jonathan Edwards to John Dewey. Readings from representative thinkers, including Woolman, Jefferson, Paine, Emerson, Pierce, Royce, and Santayana.

*Mr. Bixler*

## 353. CONTEMPORARY PHILOSOPHY

This course will be concerned with tracing major movements in philosophy since Kant. Emphasis will be placed on the influence that European philosophy and the scientific developments of the nineteenth century have had on contemporary thought.

Prerequisite: Philosophy 332 or Philosophy 352 or the consent of the instructor.

*Mr. Coffin*

## 354. HISTORY OF MEDIEVAL PHILOSOPHY

From Augustine to William of Ockham, with preliminary consideration of Neo-Platonism. A study of the interaction between philosophy and Christian theology in medieval Europe; the scholastics and the issues to which they addressed themselves.

Prerequisite: Philosophy 331, or permission of the instructor.

*Mr. Osborne*

## 372. PHILOSOPHY OF RELIGION

An analysis of the religious point of view, with consideration of some of the questions with which religion deals, together with approaches offered thereto by contemporary as well as earlier thinkers. Questions raised by students themselves will constitute the core of the syllabus.

Prerequisite: one semester course in religion, preferably Religion 311.

*Mr. Osborne*

## 381, 382. PHILOSOPHY SEMINAR

Careful study of special topics chosen each year to meet the needs of the students involved. Ordinarily the course is limited to students majoring in the department, but others with special qualifications may be admitted with the consent of the instructors.

Prerequisite: four semester courses in Philosophy.

*Staff*

## RELIGION

## 111. INTRODUCTION TO WESTERN RELIGION

The development of the Judeo-Christian tradition; its origins and growth, and its influence on Western culture in several of its aspects. This course provides a suitable background for Philosophy 112, Introduction to Western Philosophy.

Prerequisite: standing not higher than sophomore. *Mr. Osborne*

## 213. THE BIBLE: OLD TESTAMENT

Reading and study of the Old Testament and the Apocrypha to gain an understanding of the historical development of the religion of Israel and the principal ideas of its religious message.

## 214. THE BIBLE: NEW TESTAMENT

Reading and study of the New Testament with special consideration of the life of Jesus, the history of the early Christian church, and some of the principal ideas of its religious message.

**311. GREAT RELIGIONS OF THE WORLD**

An account of the origins and chief characteristics of Hinduism, Buddhism, Taoism, Confucianism, Greek Religion, Early Judaism, Early Christianity, and Islam. This course provides suitable background for Philosophy 372. *Mr. Osborne*

**316. RELIGION IN AMERICAN LIFE**

The role of religion in the development of American democracy, with special attention to the principal tenets and practices of Protestantism, Roman Catholicism and Judaism in contemporary life.

**381, 382. RELIGION SEMINAR**

Careful study of special topics in Religion. Ordinarily the course is limited to students majoring in the department, but others with special qualifications may be admitted with the consent of the instructors.

Prerequisite: the equivalent of two year-courses in Religion. *Staff*

**DIVISION OF NATURAL SCIENCES***Chairman, PROFESSOR KOONS***DIVISIONAL COURSES****201, 202. INTRODUCTION TO PHYSICAL SCIENCES**

A terminal course in the physical sciences for the non-science major. An integrated course demonstrating the interrelationships of chemistry, mathematics, and physics. The manner of development affords the student an opportunity to gain an appreciation and understanding of the structure, growth, and trends of the physical sciences.

Limited to sixty students.

Permission must be granted before a student may receive credit both for this course and courses in chemistry, mathematics, or physics.

Prerequisite: Biology 101, 102 or Geology 101, 102 or permission.  
*Chemistry, Mathematics, and Physics Staff*

**211e, 212 EVOLUTION**

A combined course conducted by the departments of Geology and Biology, considering the problem of evolution, including the interpretation of fossil records of environments and organisms, and an analysis of modern taxonomy and genetics. Considerable attention will be given to the impact of evolutionary theory on Western thought.

*Mr. Crocker and Instructor*

**BIOLOGY**

*Chairman, PROFESSOR SCOTT*

*Professor Scott; Associate Professor Terry;  
Assistant Professors Crocker and Spiegel*

Major requirements. Professional major: Mathematics 121, 122; Physics 121, 122; Chemistry 141, 142; 223, 224; Biology 101, 102 and three additional years of biology. Non-professional major: Chemistry 141, 142; Biology 101, 102 and four additional years of biology or Biology 101, 102; Chemistry 141, 142; Chemistry 223, 224 and three additional years of biology.

**101, 102. GENERAL BIOLOGY**

An introduction to the science of biology.

*Staff*



## 211. BOTANY

A study of the morphology, physiology, ecology and classification of plants.

Prerequisite: Biology 101, 102.

## 231. COMPARATIVE ANATOMY OF THE VERTEBRATES

A comparative study of vertebrate animals, their structure, natural history and relationships.

Prerequisite: Biology 101, 102.

## 232. VERTEBRATE EMBRYOLOGY

A study of early vertebrate development with laboratory emphasis on the development of the chick and the pig. Consideration is given to the implications of experimental embryology, the maturation of the germ cells, cleavage, and early organogenesis.

Prerequisite: Biology 101, 102; 231.

## † [253. INVERTEBRATE ZOOLOGY]

An introduction to the morphology, physiology, embryology, ecology, and economic importance of invertebrate animals. (A summer course at some seashore laboratory may be substituted for Biology 253.)

Prerequisite: Biology 101, 102.

## 255. MICROBIOLOGY

The biology of yeasts, molds and bacteria. The aims of the course are (1) to develop general knowledge in this area and (2) to give technical training to those who will become laboratory technicians or research workers.

Prerequisite: Biology 101, 102; Chemistry 141, 142. *Mr. Terry*

## 256. HISTOLOGY AND MICROSCOPICAL TECHNIQUE

A study of the fundamental tissues of animals, of their arrangement in the organs of the body and of the methods used in the preparation of tissues for microscopic examination.

Prerequisite: Biology 101, 102.

*Mr. Crocker*

## 312. GENETICS

A study of the mechanism of heredity; its application to man and its social importance.

Prerequisite: Biology 101, 102.

*Mr. Scott*

### 313. EXPERIMENTAL BIOLOGY

The classroom work will consist of review and discussion by the students, of some classical experiments in biological science. The laboratory work will consist of approximately six experiments involving different technical and theoretical approaches to the field.

Prerequisite: Biology 101, 102; Chemistry 141, 142. *Mr. Scott*

### 314. PHYSIOLOGY

An introduction to the physiological processes, including enzyme action, respiration, permeability, muscular contraction, nervous and hormonal coordination.

Prerequisite: Biology 101, 102; Chemistry 141, 142. *Mr. Terry*

### 421, 422. SPECIAL PROBLEMS

Prerequisite: special permission. Normally this course is open only to those who have completed or are in process of completing the courses required for a biology major. A special problem will be chosen, and the work will be directed by a member of the department staff.

## CHEMISTRY

*Chairman, PROFESSOR REID*

*Professor Reid; Associate Professor Ray;*

*Assistant Professor Machemer*

The Chemistry Department at Colby is accredited by the American Chemical Society for training on the undergraduate level. The content and nature of the courses offered in the professional major furnish the student with the maximum depth, consistent with adequate breadth, in the field of chemistry, so that the graduate is well equipped for either university postgraduate work leading to the doctor's degree, or for a responsible position in chemical industry.

All freshman students who are considering a major in chemistry should take, during their freshman year, Mathematics 123, 124 (or 125, 126 if eligible); Chemistry 141, 142. If a new foreign language is elected, it is recommended that it be German. Other required courses are listed under the next heading. A consultation with the head of the department as early as possible is necessary in order to plan properly the sequence of courses.

#### *Professional Major*

Requirements: Chemistry 142, 221, 222, 224, 321, 322 and one of the advanced courses; Physics 221, 222; Mathematics 221, 222; German 103, 104. Two years of French, and a second course in Physics are highly recommended.

#### *Non-Professional Major*

Requirements: Chemistry 142, 212, 221, 222, 224. Other courses, best suiting the needs of the student, should be selected in consultation with the head of the department.

## 121e, 122. INTRODUCTION TO CHEMICAL SCIENCE

A study of some of the fundamental principles of chemistry and their relation to other sciences. The material covered illustrates the scientific method and indicates some of the contributions of chemistry to the present world. A course for non-science students.

*Mr. Reid*

## 141, 142. GENERAL CHEMISTRY

Selected fundamental principles of theoretical chemistry and systematic inorganic chemistry are studied. The laboratory work of the second term is devoted to semimicro qualitative analysis. No previous knowledge of chemistry or physics is necessary for this course.

Prerequisite: 141 is prerequisite for 142. *Mr. Machemer*

## 212. CHEMICAL PRINCIPLES

A survey of the theories and principles involved in chemical change, approached from the quantitative point of view. The laboratory work includes physical chemical determinations. Offered only when sufficient demand.

Prerequisite: Chemistry 142. *Mr. Machemer*

## 221, 222. QUANTITATIVE ANALYSIS

A theoretical and practical course in the fundamentals of gravimetric and volumetric methods of analysis. In the laboratory emphasis is placed upon the acquisition of efficient and accurate manipulative skills. Lecture work is devoted to the study of principles underlying chemical analysis, the literature of analytical chemistry, precision and sources of error. A minimum of six hours per week of laboratory work is required of chemistry majors.

Prerequisite: Chemistry 142. *Mr. Ray*

## 223e, 224. ORGANIC CHEMISTRY

A survey of the chemistry of aliphatic, aromatic and heterocyclic compounds from the point of view of synthesis, structure, properties and uses.

Prerequisite: Chemistry 142; 223 is prerequisite for 224.

*Mr. Reid*

## 321, 322. PHYSICAL CHEMISTRY

A study of the laws governing the physical and chemical behavior of substances, including the theories and methods of physical chemistry. Special emphasis is given to the application of physical chemical principles to the solution of problems.

Prerequisite: Chemistry 142, 221, 222. Mathematics 222. Physics 221, 222. *Mr. Ray*

## 421, 422. ADVANCED ANALYTICAL CHEMISTRY

Instrumental analytical chemistry, affording theoretical and practical instruction in the use of special instrumental methods, such as colorimetric, conductometric, amperometric, photometric, potentiometric, gas-volumetric, and others.

*Mr. Ray*

## 441, 442. ADVANCED PHYSICAL CHEMISTRY

Important topics in physical chemistry are discussed from rigorous points of view. The material covered can be varied to suit the needs and interests of the student, and may include extended treatment of surface chemistry, chemical kinetics, thermodynamics, etc. Laboratory work is adapted to the nature of the course, and may involve projects of a semi-research nature.

*Mr. Ray*

## 461, 462. ADVANCED ORGANIC CHEMISTRY

The chemistry of alicyclic and heterocyclic compounds is considered from the point of view of mechanism of reaction, and includes synthesis, structural determination of natural products, molecular rearrangements. Laboratory for the first semester consists of qualitative organic analysis; for the second semester, individual semi-research projects.

*Mr. Reid*

## 481, 482. ADVANCED INORGANIC CHEMISTRY

Modern theories and concepts of atomic and molecular structure, with appropriate descriptive and synthetic laboratory work.

*Mr. Machemer*

All advanced courses meet for two hours of lecture and a minimum of four hours of laboratory work per week. In addition, conferences and extra readings may be required. The chemistry major should regard the advanced courses not only as opportunities for advancing and consolidating his undergraduate training, but also for gaining a foretaste of the intellectual climate common in industrial research laboratories and chemistry graduate schools.

All advanced courses have as prerequisites: Chemistry 142, 221, 222, 224, 321, 322. Note that 421, 422 and 441, 442 are given in alternate years.

**GEOLOGY AND GEOGRAPHY**

*Chairman*, PROFESSOR KOONS

*Professor Koons, Associate Professor Osberg,  
Mrs. Randall*

Major requirements: Geology 111, 112; 212; 251; 311, 312; 352; 411; Mathematics 123, 124; Chemistry 141, 142. Students planning professional careers in Geology should remember that graduate schools will require a

summer field course or its equivalent, at least one year in Physics and Biology, and frequently an additional year in Mathematics, for admission, and that recipients of the doctorate must demonstrate a reading knowledge of two foreign languages.

## GEOLOGY

### 111. GEOMORPHOLOGY AND MAP INTERPRETATION

Systematic study of the origin, history, and classification of landforms, based on study of topographic maps of the United States and field trips; introduction to dynamic and quantitative geomorphology.

*Mr. Koons*

### 112. PHYSIOGRAPHY OF THE UNITED STATES

Structure and geologic history of the physiographic provinces of the United States.

Prerequisite: Geology 111.

*Mr. Koons*

### 212. DESCRIPTIVE MINERALOGY

Description of the crystallography, physical properties and chemical structure of minerals.

Prerequisite: Chemistry 141.

*Mr. Osberg*

### 251. PALEONTOLOGY

Systematic study of fossils; evolution; the use of fossils in geologic correlation.

*Mr. Koons*

### 311. OPTICAL MINERALOGY

Study of the optical properties of crystals; technique in the determination of minerals using the petrographic microscope.

Prerequisite: Geology 212.

*Mr. Osberg*

### 312. PETROLOGY OF THE IGNEOUS, SEDIMENTARY, AND METAMORPHIC ROCKS

Optical study of the igneous, sedimentary, and metamorphic rocks, and their origin, structure, and composition.

Prerequisite: Geology 311, Mathematics 123, 124. *Mr. Osberg*

### 352. STRATIGRAPHY

Study of sedimentary rocks and their history; development of the North American continent; index fossils and their significance.

Prerequisite: Geology 251 or Biology 253.

*Mr. Koons*

## 411. STRUCTURAL GEOLOGY

Analysis of rock structures and their significance; field methods of structural mapping.

Prerequisite: Geology 312.

*Mr. Osberg*

## [441. SEMINAR IN GEOLOGY]

Study of the current literature in Geology; written reports and discussions.

Prerequisite: Senior standing.

## 461, 462. SPECIAL PROBLEMS IN GEOLOGY

Field and laboratory problems in geology, with regular reports, and a final written report.

Prerequisite: Senior standing and permission.

## GEOGRAPHY

## [111. METEOROLOGY]

Study of the physical properties of the atmosphere; the origin and classification of weather types; air mass analysis and principles of prediction.

## [112. CLIMATOLOGY]

Study of the climatic zones of the world, their origin, classification, and significance in the environment.

## 221, 222. GEOGRAPHIC REGIONS OF THE WORLD

Study of the geographic regions of the world, as defined by climate, soil, and topography. Impact of the environment on man, and his adaptations.

*Mrs. Randall*

## [231. GEOGRAPHY OF EUROPE]

The geographical framework of Europe; environmental zones and man's adaptations to them; the political and economic consequences of geography.

Prerequisite: Geology, taken or elected concurrently, or Air Science 122.

## [232. GEOGRAPHY OF ASIA]

The geographic framework of Asia; environmental zones and man's adaptations to them; the political and economic consequences of geography.

Prerequisite: Geology.

## [233. PRINCIPLES OF ECONOMIC GEOGRAPHY]

The distribution, exploitation, and conservation of natural resources, and their influence on national economic policies.

## 334. PRINCIPLES OF POLITICAL GEOGRAPHY

(Also listed as Air Science 422)

Geographic factors in politics, including natural resources, transportation, access to the sea, climate, and topography, and their influence on national and international policy.

Prerequisite: Junior standing, and permission *Capt. Randall*

**MATHEMATICS**

*Chairman, PROFESSOR COMBELLACK*

*Professor Combellack; Associate Professor Lucille Zukowski;  
Mr. Mojallali*

Major requirements: Mathematics 123, 124, 221, 222, 321, 322, 341, 342, 361, 362, 421, 422. Mathematics 381 may be substituted for 322 by permission. Mathematics 125, 126 is a substitute for 123, 124, 221, 222. Courses used in computing the 70 average: all mathematics courses.

## [121, 122. BASIC COLLEGE MATHEMATICS]

Intermediate and college algebra, elements of plane trigonometry, introduction to plane analytic geometry. Students who elect this course and wish to elect further courses in mathematics must consult the Head of the Department.

Prerequisite: one year or a year and a half of high school algebra and one year of plane geometry; 121 is prerequisite for 122. Students who have passed two years of high school algebra are not eligible to elect this course.

## 123, 124. ELEMENTARY FUNCTIONS

College algebra, plane trigonometry, plane analytic geometry, and introduction to calculus.

Prerequisite: a year and a half or two years of high school algebra and one year of plane geometry; 123 is prerequisite for 124.

Students who have passed 121 are not allowed credit for 123.

*Staff*

## 125, 126. ELEMENTARY ANALYSIS

Plane analytic geometry, elementary differential and integral calculus. This course is a substitute for 123, 124, 221, 222.

Prerequisite: a year and a half or two years of high school algebra and one year of plane geometry; 125 is prerequisite for 126. Limited to students selected by the department.

*Mrs. Zukowski*

221, 222. ELEMENTARY DIFFERENTIAL AND  
INTEGRAL CALCULUS

Differentiation of functions; maxima and minima; related rates; velocity and acceleration; parametric and polar equations; partial derivatives; total differential; methods of integration with applications to geometry, physics, and mechanics, using rectangular and polar coordinates.

Prerequisite: Mathematics 123, 124; 221 is prerequisite for 222.

*Mrs. Zukowski and Mr. Mojallali*

321, 322. DIFFERENTIAL EQUATIONS AND INTRODUCTORY  
APPLIED MATHEMATICS

Solutions of elementary differential equations, followed by an introduction to selected topics in applied mathematics such as solutions of differential equations by means of infinite series, Bessel Functions, Fourier Series, and vector analysis.

Prerequisite: Mathematics 221, 222; 321 is prerequisite for 322.

*Mr. Combellack*

† [341, 342. GEOMETRY]

Analytic geometry of two and three dimensions; projective geometry.

Prerequisite: Mathematics 221, 222; 341 is prerequisite for 342.

\* 361, 362. ADVANCED AND HIGHER ALGEBRA

Theory of equations; determinants; matrices; the concept of a group, a ring, and a field; linear transformations; bilinear, quadratic, and Hermitian forms.

Prerequisite: Mathematics 221, 222; 361 is prerequisite for 362.

*Mrs. Zukowski*

\* 381, 382. INTRODUCTION TO MATHEMATICAL STATISTICS

Elementary probability theory; large-sample theory; small-sample theory; maximum likelihood estimates; confidence intervals; regression; correlation; statistical design.

Prerequisite: Mathematics 221, 222; 381 is prerequisite for 382.

*Mr. Combellack*

421, 422. ADVANCED CALCULUS

The more advanced topics of calculus, including detailed study of continuity and related topics, hyperbolic functions, maxima and minima in three dimensions, Jacobians, curvilinear coordinates, line



and surface integrals, infinite series, special definite and improper integrals, Beta Function, Gamma Function, complex variable, and elliptic functions and integrals.

Prerequisite: Mathematics 321; 421 is prerequisite for 422.

*Mr. Combellack*

[441, 442. SPECIAL TOPICS]

Content varied to meet the needs and interests of individual students; such topics as theory of functions of a real or complex variable, theory of numbers, theory of groups.

Prerequisite: Mathematics 321, 322, or by permission.

**PHYSICS**

*Professor Brown and Mr. Thomas*

Students expecting to major in physics should consult with a member of the department as early as possible particularly if preparing for graduate study.

Major requirements: Physics 211, 212, 213, 216, 221, 222, 301, 302; Mathematics 123, 124, or equivalent; 221, 222; Chemistry 141, 142. Courses used in computing the 70 average: Mathematics 123, 124 and all physics courses.

121, 122. ELEMENTARY PHYSICS

A study of the development of physics from the time of Newton up to the present. Classical physics is presented in the first semester; the second semester includes qualitative treatments of atomic structure, quantum theory, and nuclear physics.

Prerequisite: None.

*Mr. Thomas*

221e, 222. COLLEGE PHYSICS

A quantitative study of mechanics, heat, sound, electricity, light and modern physics, recommended for science majors. Four semester hours per semester.

Prerequisite: Mathematics 125, 126, or equivalent (either passed or elected concurrently).

*Mr. Brown*

† [211. MECHANICS]

Statics, kinematics and dynamics with special emphasis on practical applications.

Prerequisite: Physics 221, 222.

*Mr. Brown*

## † [212. HEAT AND THERMODYNAMICS]

A thorough study of heat phenomena and elementary thermodynamics, with their applications to practical problems.

Prerequisite: Physics 221, 222.

## \* 213. OPTICS

Review of geometrical optics and the theory of some optical instruments followed by an intermediate treatment of physical optics including critical discussion of the wave-particle nature of light.

Prerequisite: Physics 221, 222.

*Mr. Thomas*

## [214. SOUND]

A study of the character of sound, the physical basis of music, acoustics of rooms, and acoustical apparatus.

Prerequisite: Physics 221, 222.

## 216. MODERN PHYSICS

A study of the experimental discoveries of physics in the twentieth century and of the genesis and applications of the new theories which have developed concurrently.

Prerequisite: Physics 221, 222.

*Mr. Thomas*

## 301, 302. ELECTRICITY AND MAGNETISM

The principles of direct and alternating currents and their more important applications.

Prerequisite: Physics 221, 222.

*Mr. Brown*

## † [303, 304. ELECTRONICS]

The electronic structure of solids, thermionic emission, vacuum tubes and their simpler applications in continuous wave and pulsed circuits, transistors, gas tubes, and microwaves.

Prerequisite: Physics 221, 222.

**\* 331. TEACHINGS OF SCIENCE IN THE SECONDARY SCHOOL**

Consideration of special problems in the teaching of sciences usually untouched in science and education courses. Although physics is considered particularly, material is sufficiently general to apply to the teaching of any science course.

Topics include: periodical literature, visual aids, selection of textbooks, application of unit method, integration of class and laboratory, budget and inventory.

Prerequisite: two semester courses in physics, two additional semesters of another laboratory science, and an education course taken previously or concurrently.

*Mr. Brown*

**† [411, 412. MATHEMATICAL PHYSICS]**

Outline of classical theoretical physics including Lagrangian and Hamiltonian dynamics and some boundary value problems. Introduction to quantum mechanics with treatment of the harmonic oscillator, the hydrogen atom, and molecular binding.

**421, 422. SPECIAL TOPICS**

Research problems to meet the needs and interests of individual students.

Prerequisite: Junior standing, at least, and permission of Staff instructor.

*Staff*

**DIVISION OF AIR SCIENCE**

*Professor Kirby (Lt. Col.); Assistant Professors Dole (Maj.),  
Bennett (Capt.), Dietz (Capt.),  
Randall (Capt.)*

**121, 122. AIR SCIENCE I**

A course designed to acquaint the student with: the details of the AFROTC program; the moral and statutory obligations for military service; the fundamentals of global geography; international tensions and security organizations; the defense organization of the United States; introduction to aviation.

Leadership laboratory includes instruction in wearing of the uniform, military courtesy and basic drill with limited leadership exercises.

*Staff*

**221, 222. AIR SCIENCE II**

The purpose, processes and primary elements of aerial warfare are explained to demonstrate the utilization of air force. Types of targets, weapons best suited for each, delivery aircraft, the air ocean in which they fly, launching bases, and the operational techniques employed are correlated.

An explanation of Air Force career fields.

Leadership laboratory is a continuation of AS I with emphasis on non-commissioned officer training.

Prerequisite: Air Science 121, 122 or equivalent. *Capt. Dietz*

**321, 322. AIR SCIENCE III**

Command and Staff concepts; problem solving techniques; communicating and instructing in the Air Force; the military justice system; functions of an Air Force base; and applied air science, including weather and navigation.

Leadership laboratory — progression to training as a junior cadet officer with more responsibility and authority in the Cadet Corps.

Prerequisite: Air Science 221, 222 or equivalent.

*Maj. Dole; Capts. Bennett and Dietz*

**421, 422. AIR SCIENCE IV**

The principles of leadership and management; the military aspects of world political geography; military aviation and the evolution of warfare; career guidance; briefing for commissioned service.

Leadership laboratory — final phase of leadership training. Cadets assigned responsibilities and authority to operate the cadet corps under the supervision of the professor of air science and military faculty.

Prerequisite: Air Science 321, 322 or equivalent.

*Capt. Randall; Capt. Bennett*

## DIVISION OF HEALTH AND PHYSICAL EDUCATION

*Chairman, PROFESSOR LOEBS*

*Professor Loeb; Assistant Professors Marchant, Williams and Clifford; Messrs. Kelley, Winkin, Coons and Instructor; Drs. Dore and Reynolds*

The aim of this Division is to stimulate an interest and to develop skills in a wide variety of individual and team games, encourage participation in intramural and intercollegiate athletics, and to stress in the required physical activities program those games and sports that have a carry-over value in post graduate days. Physical Education is required of all freshmen and sophomores for graduation, since it is felt to be an integral element of the liberal arts college curriculum. All participation in this Division is subject to the approval of the College Physician and his staff.

### PHYSICAL EDUCATION FOR MEN

The Physical Education program for men is divided into four major components; instructional required activity classes, intramural sports, intercollegiate athletics (varsity and freshmen teams) and informal recreational activities.

Physical Education 1, 2. Instruction and supervised competition in seasonal sports during the year. (Required of all freshmen)

Physical Education 3, 4. Instruction and supervised competition in seasonal sports during the year. (Required of all sophomores)

A semester's work failed in the first two years must be repeated in the junior year. Participation on varsity or freshmen athletic teams may be substituted for the physical education section assignments within the season or seasons during the freshman and sophomore years. Selection of the regular class sections must be made at the time of the regular academic course elections. A prescribed uniform is required for all physical education activity classes. Lockers and towels are provided to all students enrolled in the program.

The Intramural Athletic Council, composed of one representative from each participating unit, promotes general participation in athletics for all men students. Schedules are arranged in a wide variety of outdoor and indoor sports, and every student is free to engage in the activities of his choice. An all year round point system enables each competing unit to develop a continuity of participation. Competition is organized in touch football, soccer, basketball, bowling, hockey, ping-pong, volleyball, winter sports, rifle shooting, track,

softball and tennis. As new interests develop, and facilities made available the program of intramural athletics will be increased.

The Intercollegiate Athletic contests are under the special supervision of the Director of Intercollegiate Athletics. Advisory control of all intercollegiate athletic interests of the college is exercised by the Council on Intercollegiate Athletics composed of three members of the faculty and three members of the alumni council. The rules that govern all intercollegiate sports are those adopted by the various athletic conferences in which Colby holds membership.

No member of the freshman class and no other undergraduate who has previously been enrolled in another college or university and has been in attendance at Colby College for less than one full college year is eligible to represent Colby on varsity athletic teams.

Colby sponsors a full program of intercollegiate athletics with colleges of similar size and standards, with competition in the following sports: Football, Hockey, Baseball, Basketball, Track and Field Athletics, Winter Sports, Tennis and Golf. Colby, Bowdoin, Bates and the University of Maine form what is historically known as "The Maine State Series" and is one of the most exciting, stimulating and healthiest series of intercollegiate athletic competition in the nation.

#### PHYSICAL EDUCATION FOR WOMEN

All freshmen and sophomores are required to attend three classes each week in Physical Education. Each student may select her activities after she has included the departmental requirement of a team sport, an individual sport, and dance.

Juniors and seniors may participate in all physical education activities for credit in the Women's Athletic Association.

All participation is subject to the approval of the College Physician.

Fall Season Activities: archery, field hockey and tennis; Winter Season: badminton, basketball, dance, swimming, volleyball, skating, skiing and tournaments; Spring Season: archery, golf, lacrosse, softball and tennis.

#### PROFESSIONAL HEALTH AND PHYSICAL EDUCATION

The Department offers professional training to those students who are interested in preparing for positions as teacher-coach or Physical Education instructor in public and private schools. The courses not only embody training in the coaching of athletic sports but also emphasize training in Health and Physical Education for students who are interested in entering the field of teacher-coach.

311. THE ORGANIZATION AND TEACHING OF  
HEALTH AND PHYSICAL EDUCATION  
ACTIVITIES

The practice and theory of those activities included in the program of health service, health instruction, intramural athletics, and physical education in the modern school program.

Prerequisite: special permission. *Mr. Loeb and Miss Marchant*

312. THE ADMINISTRATION OF HEALTH AND  
PHYSICAL EDUCATION

Administrative policies, practices, teaching methods, and standards pertaining to the execution of a modern program of athletics, physical education, and recreation in the public schools.

Prerequisite: special permission. *Mr. Loeb and Miss Marchant*

Note: Women's section of 311 and 312 offered in 1955-56 and alternate years only.



**INTERDEPARTMENTAL COURSES**

**EVOLUTION.** *See Natural Sciences 211e, 212 (page 89)*

**GENERAL HUMANITIES.** *See Humanities 221e, 222 (page 52)*

**INTRODUCTION TO PHYSICAL SCIENCES.** *See Natural Sciences 201, 202 (page 89)*

**PROBLEMS IN CREATIVE THINKING.** *See Humanities 101, 102 and 301, 302 (page 52)*

**SOCIAL THINKERS IN THE WESTERN TRADITION.** *See Social Science 121e, 122 (page 68)*

## PREPARATION FOR GRADUATE AND PROFESSIONAL SCHOOLS

### GRADUATE SCHOOLS OF ARTS AND SCIENCES

Competent graduates of Colby are regularly encouraged to enter graduate school for pursuance of advanced degrees. The Dean of the Faculty is the general adviser for all graduate work, and members of the faculty are always ready to guide students in the choice of graduate courses in particular fields. All seniors who have any intention of possibly attending a graduate school of arts and sciences should take the Graduate Record Examination, for which the Educational Testing Service has named Colby as one of the examination centers. There are three annual administrations of this examination, in October, February and May. The May administration is too late for many graduate schools. Colby seniors are advised to take the examination in February.

### GRADUATE SCHOOLS OF COMMERCE AND BUSINESS ADMINISTRATION

The valuable training for rewarding positions in business and industry which is offered by such post-graduate institutions as the Harvard Graduate School of Business Administration, the Wharton School of the University of Pennsylvania, and the Amos Tuck School of Dartmouth College, leads many Colby graduates to seek admission into these and similar schools. In 1954 a graduate examination was introduced for entrance into these schools. Called the Test for Graduate Schools of Business, it is administered at Colby. For advice about graduate work in business, the student should consult members of the Colby Department of Business Administration.

### ENGINEERING: THE THREE-TWO PLAN

Colby College cooperates with the Carnegie Institute of Technology in what is known as the three-two plan of engineering education. Under this plan a student attends Colby for three years in liberal arts, then spends two years at Carnegie in a chosen branch of engineering. Upon successful completion of the five-year program the student receives the liberal arts degree from Colby and the engineering degree from Carnegie.

During the three years at Colby the engineering student must secure competent mastery of the necessary mathematics and science to assure success with the two years of intensive engineering training at Carnegie. In his Colby program, however, there is plenty of room for broad distribution in the humanities and the social studies.

The Colby part of this cooperative plan is in charge of a committee composed of the Dean of the Faculty, the Dean of Men and representatives of the departments of Mathematics, Physics, and Chemistry.

### MEDICINE

The pre-medical student is free to major in any subject of his choice. The medical schools do not require a major in any one subject or any combination of subjects. They merely require general high standing and the inclusion in the student's college program of biology, chemistry, physics, English, and foreign languages. The amount of work demanded in each of these subjects differs with different medical schools, but all require organic chemistry in addition to a year of general chemistry. Some schools require vertebrate anatomy and all schools prefer it.

The Pre-Medical Committee at Colby will help each candidate to prepare for all medical schools to which he may wish to apply. Admission to medical school is so highly competitive that it is frequently necessary for a candidate to apply to several schools.

It is strongly urged that pre-medical students take college courses in mathematics through the first year of calculus. Many medical schools place high reliance upon the marks in calculus in their selection of competitive applicants.

In the college year preceding entrance into medical school the applicant must take the Medical College Admission Test.

This test, administered twice a year, in November and May, should surely be taken in November by applicants who wish to enter medical school in the following autumn, because the fall class in many schools is selected prior to the May administration of the test. The Medical College Admission Test is supervised by the Educational Testing Service. It is administered at Colby provided there is a sufficient number of candidates; otherwise a Colby student takes it at another near-by center.

### DENTISTRY

Although some of the dental schools admit applicants who have completed three years, and sometimes only two years, of college work, the leading schools prefer applicants who hold the college degree. As in medicine, there is no demand for a particular major. Each applicant, regardless of his major must meet the specific requirements in biology, chemistry, physics, and English, which differ in quantity with different dental schools.

The Pre-Medical Committee is advisory to candidates for dentistry as well as to those for medicine.

Testing for admission to dental schools is new. The American Dental Association began a testing program in 1950, setting up testing centers, not at the colleges, but in various cities, and fixing the testing dates in the Thanksgiving recess, the Christmas recess, and the spring recess period. Since those dates vary among the colleges, it is hoped that the Dental Association will soon decide to use the facilities of the Educational Testing Service and have the test given on the college campuses.

#### LAW

No specific subject is required for admission into any school of law. The pre-law student is therefore free not only to major in any field of his choice; he is also free to take any subject he pleases during his college course.

Law schools vary widely in their standards of admission. Since nearly every state in the Union now requires two years of college work for all who take the bar examination, regardless of training in law school or elsewhere, the minimum requirement for entrance into any reputable school of law is the completion of two years of college. The leading schools of greatest prestige require a college degree for admission; another group requires three years of college work. Each applicant should therefore determine the exact requirements laid down by the law school of his choice.

During the college year before he intends to enter law school, the candidate must take the Law School Admission Test, administered at Colby under direction of the Dean of the Faculty on specified dates.

#### NURSING

Under the direction of the Dean of Women, students interested in preparing for a collegiate school of nursing may arrange an appropriate program of study. The pre-nursing curriculum follows the requirements of leading graduate schools of nursing.

It is recommended by such schools that the applicant's preparation include a sound background in history, psychology, and other social sciences, as well as in literature, English expression, and foreign languages. The specific requirements include Chemistry, Biology, and Psychology.

#### PREPARATION FOR TEACHING

Colby College offers courses in the Department of Education to enable prospective teachers to meet the requirements for high school teaching in the State of Maine.

A college graduate who has fulfilled the requirements in a major subject and with *twelve semester hours* in Education and Psychology may obtain the Two-Year Provisional Grade B Secondary Certificate from the Maine State Department of Education. The college graduate who has completed the requirements for a major subject and with *eighteen semester hours* in Education and Psychology may obtain the Five-Year Provisional Grade A Secondary Certificate. The major subject *must* be one which is ordinarily taught in high school such as English, mathematics, history, modern language, chemistry, physics, biology, etc.

Each of the forty-eight states in the United States has a separate set of requirements for secondary school certification. A student who wishes to teach in a state other than Maine should obtain information concerning the specific requirements of the state in question from the state department of education of that state.

In view of the rather complicated situation with regard to teacher certification in the several states, many students are now thinking in terms of a fifth year of preparation at the university level. The trend is definitely in the direction of a good background in the liberal arts followed by a year of study at a university with a Master's degree as the logical goal. Many Colby students have participated in fifth year programs with considerable success.

Colby is affiliated with the Twenty-nine College Program offered by the Harvard Graduate School of Education where a Master of Arts in Teaching degree is awarded after successful completion of one year of study, including practice teaching. The College also has close contacts with the University of Maine and other universities which offer graduate study for teacher candidates. Financial assistance is available to qualified students at many universities.

The student who is interested in teaching should consult with the staff of the Department of Education for further information.

# DIRECTORIES



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THE FACULTY  
OFFICERS  
STAFF  
DEGREES  
THE STUDENTS**

# Directories

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- DORIS HARDY HAWHEELI (MRS.), B.A., (Al. 1958) Worcester, Mass.
- FREDERICK THAYER HILL, M.D., Sc.D., (1958) Waterville, Maine  
*Surgeon*
- RUTH RICH HUTCHINS (MRS.), B.A., (1958) Bangor, Maine
- ELLERTON MARCEL JETTE, (1956) Waterville, Maine  
*President, C. F. Hathaway Company*
- \*FRANKLIN WINSLOW JOHNSON, M.A., L.H.D., LL.D., D.C.L., (1958) Waterville, Maine  
*President-Emeritus, Colby College*
- FRED FOSS LAWRENCE, B.A., (1956) Portland, Maine  
*Vice-President, Maine Savings Bank*
- NEIL LEONARD, LL.B., (1956) Boston, Mass.  
*Lawyer, Bingham, Dana and Gould*
- MATTHEW TAYLOR MELLON, Ph.D., Litt.D., (1956) Pittsburgh, Pa.  
*Former Lecturer, University of Freiburg*
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*Professor, Yale University*
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- NINETTA MAY RUNNALS, M.A., Litt.D., (Al. 1956) Dover-Foxcroft, Maine  
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- SUMNER SEWALL, LL.D., (1957) Bath, Maine  
*Former Governor of Maine*

\* Deceased



RAYMOND PATON SLOAN, L.H.D., (1958) <i>Editor, The Modern Hospital</i>	New York, N. Y.
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In parentheses after each active name are listed the colleges from which earned degrees have been received.

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56 Burleigh Street

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46 Lawrence Street, Dover-Foxcroft

\* Deceased

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31 Winter Street

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282½ Main Street

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28 Winter Street

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R.F.D., Oakland

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21 Veteran Court

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Roberts Union

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7 Taylor Avenue

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9 Lawrence Street

ALICE LORRAINE D'AMELIO, B.S. (Tufts), Instructor in Health and Physical Education.  
Veterans Apartments



JOHN WORDE WINKIN, JR., M.A. (Duke, Columbia), Instructor in  
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Robins Hall

PETER ROBINSON COFFIN, M.A. (Brown, Chicago), Instructor in  
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Averill Terrace

RAHIM MOJALLALI, M.Ed. (Tufts), Instructor in Mathematics.  
30 Pleasant Street

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18 Winter Street

JOHN JOSEPH IORIO, M.A. (Columbia), Instructor in English.  
River Road

LEE STANLEY BAIER, M.A. (Reed, Columbia), Instructor in Eng-  
lish.  
Veterans Apartments

CLARA ROMER RANDALL (MRS.), M.A. (Clark), Instructor in  
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282½ Main Street

HARRY SANBORN THOMAS, M.S. (Maine, Pennsylvania State), In-  
structor in Physics.  
17 Silvermount Street

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27 Winter Street

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Speech in the Department of English.  
40 Pleasant Street

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History.  
Rice's Rips Road

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structor in Sociology.  
31 Winter Street

DAVID HAROLD GRUBBS, M.A. (Maryville, Pennsylvania), Instruc-  
tor in Government.  
20 College Avenue

---

MURIEL BRIGGS AUSTIN (MRS.) B.A., Assistant in Geology.

DONALD GIFFORD WOLFE, B.A., Assistant in Physics.

**COMMITTEES OF THE FACULTY**

1955-1956

The first named member of each committee is its chairman. The President is ex officio a member of all committees.

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**AFROTC:** Professors Humphry, Reid, Gillum, Kindilien and the PAS ex officio.

**ATHLETICS:** Professors Pullen, Biron, Gillespie.

**BOOK OF THE YEAR:** Professors Gillum, Sutherland, Osberg, Osborne, and Mr. Coffin.

**BOOK STORE:** Professors Kellenberger, Whitlock, Osberg, Sutherland, and Treasurer Seepe ex officio.

**COLBY SCHOLAR:** Professors Osborne, Birge, Terry, Kellenberger, Osberg, Sutherland, and Whitlock.

**COMMENCEMENT:** Professors Loeb, Humphry, Millett, G. Smith, Pullen, Bither; Messrs. Turner, Dyer, Whalon; Miss Nichols; Robert Raymond, 1956, and Eleanor Edmunds, 1956.

**CONVOCATION:** Professors Osborne, Birge, Bither, Carpenter, Gillum, Humphry, Marriner, Scott, Tompkins, and Sutherland.

**CURRICULUM:** Professors Chapman, Combellack, E. Comparetti, Johnson, W. Zukowski, Bither, Ray, Gilman, Raymond, Crocker; Deans Marriner, Nickerson and Tompkins.

**ENGINEERING PREPARATION:** Professors Combellack, Brown, Reid, Ray; Deans Marriner and Nickerson.

**EXAMINATIONS:** Professors McCoy, Koons, Gilman, L. Williams, and Cary.

**FRESHMAN WEEK:** Mr. Bryan; Treasurer Seepe; Professors McCoy, Osborne, Loeb, Holland; Deans Nickerson and Tompkins; Messrs. Macomber and Whalon; Miss Nichols; Director of Women's Union, and Mrs. Larsen.

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**HONORARY DEGREES:** (advisory): Professors Weber, Breckenridge, and Scott.

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**MEDICAL PREPARATION:** Professors Scott, Reid, Brown, with Deans Marriner, Nickerson and Tompkins as consultants.

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Marcia Dale Baldic, Secretary to the Treasurer

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Hazel Rounds Whitmore (Mrs.), House Mother, P.D.T. Fraternity  
John Worde Winkin, Jr., M.A., Head Resident, Robins Hall

## DIETARY STAFF

Lydia Briggs, B.S., Assistant Dietitian

Inza Taylor Foster (Mrs.), Relief and Catering Assistant  
L. Muriel Tripp, B.S., Assistant Dietitian

MEDICAL STAFF

Clarence E. Dore, M.D., Physician  
John F. Reynolds, M.D., Consultant in Surgery  
Susan Fortuine (Mrs.), R.N., Head Nurse

Nurses:

Madeline Emma Dunn (Mrs.), R.N.  
Cecile Clark (Mrs.), R.N.  
Wendell Kingsbury (Mrs.), R.N.

MAINTENANCE STAFF DEPARTMENT HEADS

Ansel A. Grindall, General Foreman  
George Mitchell, Foreman of Sanitation  
Claude C. Taylor, Heating Foreman  
Daniel McKnight, Electrician

## DEGREES AWARDED

## COMMENCEMENT

MONDAY, JUNE 13, 1955

## BACHELOR OF ARTS

## MEN'S DIVISION

Gildo Thomas Alfano	Milton, Mass.
Reginald Dickon Anderson	Grafton, Mass.
Phineas Putnam Barnes	Syracuse, N. Y.
Richard William Bartlett	Marblehead, Mass.
Ross Manson Bear	Merrick, N. Y.
Adam Francis Berluti	West Haven, Conn.
André Robert Boissevain	New York, N. Y.
Theodore Locke Brown	Winchester, Mass.
Horace Ridgely Bullock, Jr.	Ardmore, Pa.
Richard Quimby Clough	Natick, Mass.
Ralph Anthony Cuccuro	West Haven, Conn.
John Gordon Davis	Framingham, Mass.
John William Deering, Jr.	Cape Elizabeth
John Philip Delea	Brockton, Mass.
George Perry Dinnermann	Newark, N. J.
Francis Anthony Dostie	Fairfield
Edward Robert Ducharme	Waterville
Frank Barrett Dunn	Houlton
John Austin Dutton	West Newton, Mass.
Sidney Weymouth Farr	South Orrington
Scott Dinsmore Ferguson, Jr.	Boston, Mass.
Leon Earl Fernandez	Winchester, Mass.
Thomas Francis Finn, Jr.	Tewksbury, Mass.
Ernest Wilfred Flick	Thorndike
Thomas Clyde Ford	Detroit, Mich.
Ronald Dean Francis	Fairfield
Peter Alan French	Millinocket
Robert Winfred Gleason, Jr.	Dobbs Ferry, N. Y.
Kenneth Wilbur Gray	Hallowell
Ainsworth Minot Greene	West Hartford, Conn.
Robert Alden Hale	Portland, Conn.
Douglas McLeod Harlor	Columbus, O.
George Edward Haskell	Dedham, Mass.
John Warren Hatch	Fairfield, Conn.
Donald Louis Hoagland	Elizabeth, N. J.
Robert Samuel Johnson	Scarsdale, N. Y.
John Douglas Johnston	Shreveport, La.
Harold Ralph Jurgens	Thiells, N. Y.
Stephen Michael Kaufman	Lynn, Mass.



Herbert Randolph Keech	Fall River, Mass.
Philip Minchin Kilmister	Concord, N. H.
Daniel, Michael Kisloff	Waban, Mass.
Victor John Ladetto	North Dartmouth, Mass.
Donald Perry Lake	Milton, Mass.
Allan Jordan Landau	Dorchester, Mass.
Lee Martin Larson	Duluth, Minn.
Anthony Alzamora Leone	Newton Centre, Mass.
Joseph Lovegren	Belmont, Mass.
Paul Franklin McClay	Waterville
David Bruce McComb	Manchester, Conn.
Hugh James MacDonald	Belmont, Mass.
Richard Edwin McKeage	Franklin, N. H.
David McKeith	Charlottesville, Va.
Robert Eastman McRoy	Rockville Centre, N. Y.
John Elmer Macklin	Norridgewock
Charles Walter Macomber	Augusta
Richard Alexander Magill	Caribou
Arthur Marchand, Jr.	Somerset, Mass.
Donald Keith Martin	Haverhill, Mass.
Donald Francis Miller	Gloucester, Mass.
Nathan Ralph Miller	Caribou
Lewis Clarence Montpelier	Norway
Donald Theodore Moore	Babylon, N. Y.
David Lee Morin	Waterville
Peter Boone Oram	Garden City, N. Y.
Peter Pan Parsons	South Paris
Joseph Augustus Perham	West Paris
Fred Martin Petra	Waterville
John Benjamin Philbrook	Waltham, Mass.
Arlie Raymond Porath	Augusta
John Douglas Powell	East Northfield, Mass.
John Nathan Reisman	Westport, Conn.
David Linscott Roberts	South Portland
David Weston Rollins	Waterville
William Perry Rosen	New Haven, Conn.
William Anton Schiebelhuth, Jr.	Middle Village, N. Y.
Albert Richard Schmitt	Eberbach, Germany
Robert Lester Schultz	New York, N. Y.
Alfred Joseph Shore	Newton, Mass.
Konstantinus Dino Sirakides	Newark, N. J.
Robert Mark Slotnick	Brookline, Mass.
James Clark Smith	Bangor
Russell Millard Squire, Jr.	Waterville
Selden Carl Staples	Hampton Beach, N. H.
Russell Earle Stone	East Haven, Conn.
Charles Leopold Strasser	Scarsdale, N. Y.
Stephen Lyons Strauss	New York, N. Y.

Peter Stinson Stutts	Rockville Centre, N. Y.
Bruce Miles Sullivan	West Hempstead, N. Y.
Theodore Velsor Summers, Jr.	Syosset, N. Y.
Ronald Arthur Swanson	North Bridgewater, Mass.
Henry Anthony Tataronis	Danvers, Mass.
Richard Walter Tripp	Hallowell
James Wood Tyson, Jr.	Concord, Mass.
Kenneth VanPraag	Albany, N. Y.
David Allen Ward	Dedham, Mass.
Louis Vincent Zambello, Jr.	Somerville, Mass.

## WOMEN'S DIVISION

Shirley Frances Adams	Hartford, Conn.
Beverly Mary Aikman	Chappaqua, N. Y.
Joanne Bailey Anderson	Newcastle
Barbara Joan Ayers	Morristown, N. J.
Alice Carolyn Beale	Hingham, Mass.
Betsy Ann Benson	Wakefield, Mass.
Sue Ellen Biven	Binghamton, N. Y.
Carol Charlotte Branch	Chelmsford, Mass.
Jane Hillock Bull	Gardiner
Anne Richards Burbank	Waterville
Barbara Jayne Burg	New Britain, Conn.
Ann Doreen Burnham	Wellesley, Mass.
Betsy Dunning Burns	Bronxville, N. Y.
Susanne Montgomery Capen	Boonton, N. J.
Helen Sturtevant Chambers	New Bedford, Mass.
Joan Elaine Chandler	Westbrook
Shirley Ann Coatsworth	Cross River, N. Y.
Virginia Lois Coggins	New Britain, Conn.
Margaret Ann Connelly	Camden
Dorothy Ellis Couillard	Duxbury, Mass.
Nancy Jane Cowing	Springfield, Mass.
Betty Ann Cuthbertson	Melrose, Mass.
Mary Osgood Cutter	Birmingham, Mich.
Jennie Crosby Davis	Hampton, Va.
Ann Seaver Dillingham	Brooklyn, N. Y.
Mary Catherine Dundas	Waterville
Dorothy Dunn	Concord, N. H.
Ann Elizabeth Eilertson	Dedham, Mass.
Yvonne Richmond Ellis	Waterville
Marilyn Elsa Faddis	New York, N. Y.
Katherine Elizabeth Flynn	Palmerton, Pa.
Sue Franklin	Bayside, N. Y.
Harriet Sears Fraser	Laconia, N. H.
Antoinette Gatewood	Baltimore, Md.
Verna Louise Gove	Auburn

Margaret Helen Grant	Houlton
Faith Greeley	Boston, Mass.
Eugenie Frances Hahlbolm	Manhasset, N. Y.
Rita Walker Hamilton	Dallas, Texas
Elizabeth Pollard Harris	Wellesley, Mass.
Katharine Howell Hartwell	Lancaster, Pa.
Margaret Anne Hattie	Portland
Jean Cressy Hawes	Watertown, Mass.
Elizabeth Illsley	Belmont, Mass.
Annette Myrtle Irons	East Providence, R. I.
Olga Jaroshevich	New Brunswick, N. J.
Marcia Geneva Jebb	Lunenburg, Mass.
Barbara Ann Kearns	Dumont, N. J.
Betsy Alta Keene	Glens Falls, N. Y.
Janet Killheffer	Barrington, R. I.
Elizabeth Ruth Knox	Randolph, Mass.
Joyce Ruth Kovner	Brockton, Mass.
Eloise Ruth Larned	South Euclid, O.
Judith Copeland Lawson	Cranston, R. I.
Mary Haig Lee	Mt. Kisco, N. Y.
Virginia Louise Lee	Brooklyn, N. Y.
Marcia Coleman Leland	Glens Falls, N. Y.
Erika Lind	Waterville
Mary Louise McCullum	Augusta
Xandra McCurdy	Merion, Pa.
Ruth Ada McDonald	Portland
Ruth Patricia McDonald	Stoneham, Mass.
MaryEllen McGoldrick	Westwood, Mass.
Carol MacIver	Portland
Dorothy Brenda Mahoney	Milton, Mass.
Ann Mandelbaum	Hanover, N. H.
Germaine Alice Michaud	Waterville
Vanda Mikoloski	Worcester, Mass.
Barbara Miller	Chicago, Ill.
Mary Jane Millett	Waterville
Beverly Amelia Mosettig	New Bedford, Mass.
Mary Louise Nutting	Skowhegan
Nancy Marcia Perron	Wellesley Hills, Mass.
Barbara Ann Restall	Melrose, Mass.
Diane Christine Reynolds	North Easton, Mass.
Nancy Robinson Rollins	Waterville
Joan Margaret Sandberg	Winchester, Mass.
Elinor Ann Small	Freeport
Lucille Rebecca Small	Plymouth, Mass.
Octavia Hickcox Smith	Woodbury, Conn.
Judith Stetson	Newton Highlands, Mass.
Jean Lippincott VanCuran	Norway
Beryl Wellersdieck	Rockville Centre, N. Y.

Elizabeth Jean Weymouth  
 Cornelia Jane Whipple  
 Susanne Florence Whitcomb  
 Elizabeth Eleanor Young

Augusta  
 Haverhill, Mass.  
 Waltham, Mass.  
 South Burlington, Vt.

### HONORS IN GENERAL SCHOLARSHIP

#### MAGNA CUM LAUDE

Ann Elizabeth Eilertson  
 Mary Louise McCullum  
 Sue Franklin

#### CUM LAUDE

Yvonne Richmond Ellis  
 Margaret Anne Hattie  
 Marcia Geneva Jebb

Mary Osgood Cutter  
 Ronald Arthur Swanson  
 Katharine Howell Hartwell

### HONORS IN SENIOR SCHOLARS PROGRAM

Horace Ridgely Bullock, Jr.

Major Elements of Serious American Drama: 1944-1954

Katharine Howell Hartwell

The Reduction of Prejudice in Intergroup Relations

Arthur Marchand, Jr.

The Rights of Petition and Assembly: Their History and Interpretation by the United States Judiciary

Barbara Miller

Tolstoy and His Place in Nineteenth Century Russian Literature

### DISTINCTION IN COURSE

#### IN CHEMISTRY

Harold Ralph Jurgens

#### IN ENGLISH

Joseph Augustus Perham

#### IN FRENCH

Beverly Amelia Mosettig

#### IN HISTORY - GOVERNMENT - ECONOMICS

Ann Mandelbaum

#### IN MATHEMATICS

Ruth Ada McDonald  
 David Linscott Roberts  
 Elinor Ann Small

#### IN MUSIC

Fred Martin Petra

#### IN PHYSICS

Ronald Dean Francis



## THE STUDENTS

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 Blanchard, Bruce C., 6 Elm St., Windsor, Vt.  
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 Bloom, David N., 708 George St., New Haven, Conn.  
 Bodington, Frederick M., South of Commons, Little Compton, R. I.  
 Bogren, Peter A., 145 West Plain St., Cochituate, Mass.  
 Bois, William J., R.F.D. No. 1, Waterville  
 Boole, Barkev J., 237 Franklin St., Newton, Mass.  
 Bortolan, Peter R., 118 Oak St., Willimantic, Conn.  
 Bosse, Gerard J., 2 Spring Pl., Waterville  
 Bourassa, Carl J., Bassette Rd., Winslow  
 Brackin, Thomas S., 115 Intervale Rd., Mountain Lakes, N. J.  
 Breton, Roland J., 127 Kennebec St., Waterville  
 Bridge, Peter G., 169 Sewall St., Augusta  
 Briggs, John A., Oak Grove, Vassalboro  
 Brodie, Frederick M., 20 Pershing Rd., Amsterdam, N. Y.  
 Brolli, Robert E., 29 South Mountain Ave., Montclair, N. J.  
 Brooks, John K., 47 Winchester Rd., Newton, Mass.  
 Brown, Charles B., 18 Liberty Ave., Somerville, Mass.  
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 Brown, Mark T., 136 Summer St., Waltham, Mass.  
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<sup>2</sup> In attendance second semester, only.

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- Connolly, Kevin J., 162 Hermon St., Winthrop, Mass.
- Connors, Thomas N., 66 Glenbrook Dr., Cheshire, Conn.
- Consolino, Joseph T., Palmer Hill Rd., Stamford, Conn.
- Cote, Donald R., 142½ Oxford St., Lewiston
- <sup>1</sup> Coulombe, Philip A., 119 Mt. Vernon Ave., Augusta
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- Cunningham, Gordon F., 167 Lincoln St., Millinocket
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<sup>1</sup> In attendance first semester, only.



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 Erb, Robert C., Jr., 17 Chester St., Nashua, N. H.

<sup>1</sup> In attendance first semester, only.

<sup>2</sup> In attendance second semester, only.

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 Fearing, Alfred, Jr., 53 Taft Ave., Winthrop, Mass.  
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<sup>1</sup> Fitch, Norman P., 55 Aspen Ave., Auburndale, Mass.  
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 Foster, Walter S., Friendship  
 Fox, Charles J., 29 Brewster Rd., Newton Highlands, Mass.  
 Fraser, Alan D., 575 Mine Hill Rd., Fairfield, Conn.  
 Fraser, Charles R., Pine St., North Falmouth, Mass.  
 French, Eldon B., R.F.D. No. 1, Solon  
 French, Weldon E., R.F.D. No. 1, Solon  
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 Gantt, Myron L., c/o M/Sgt. W. L. Gantt, 42nd Supply Sqdn.,  
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 Goldberg, Ezra A., 17 Croftdale Rd., Newton Centre, Mass.

<sup>1</sup> In attendance first semester, only.

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 Goyette, Arthur B., 40 Horne St., Berlin, N. H.  
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