1973

Colby College Catalogue 1973 - 1974

Colby College

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George L. Coleman II, Registrar

SCHOLARSHIPS, EMPLOYMENT, AND PLACEMENT
Sidney W. Farr, Director of Financial Aid and Career Counseling

VETERANS’ AFFAIRS
George L. Coleman II, Registrar

A booklet, Colby, with illustrative material, has been prepared for prospective students and may be obtained from the dean of admissions.

Mailing address: Colby College, Waterville, Maine 04901. Telephone: (207) 873-1131.

The New England Association of Schools and Colleges accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary school meet the standards of membership.

The Colby College Bulletin is published nine times yearly: in February, March, twice in May, June, twice in September, November, and December.

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Colby College

The President and Trustees of Colby College.

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

Independent college of liberal arts for men and women (women first admitted, 1871); nonsectarian, founded under Baptist auspices.

Bachelor of Arts.

800 men, 700 women.

131 full and part time.

$32,258,188 (market value as of June 30, 1972).

Over 325,000 volumes and 17,000 microtexts; 1,000 current subscriptions to periodicals.

Accredited by the New England Association of Schools and Colleges. Member of the College Entrance Examination Board, the Association of American Colleges, the American Council on Education, and The Research Institute of the Gulf of Maine. Approved by the American Chemical Society, Association of American Medical Schools, American Association of University Women, the American Association of University Professors. The Colby chapter of Phi Beta Kappa was founded in 1895.

In 1813, when Maine was still a part of Massachusetts, a group of Baptists secured a charter for the Maine Literary and Theological Institution, and in 1815 received a grant of land on the Penobscot River. Permitted subsequently to erect the institution on a site other than the land grant, they chose a tract in Waterville on the west bank of the Kennebec, where in 1818 the Reverend Jeremiah Chaplin began instruction of seven theological students.

The first legislature of Maine in 1820 granted the institution the right to confer degrees, and in 1821 changed the name to Waterville College, with Jeremiah Chaplin as the first president. William King, Maine's first governor, had been instrumental in securing the original charter, and was himself for many years a member of the board of trustees.

Though founded by Baptists, the college, even in its earliest days, was not narrowly sectarian. The Maine charter decreed that no applicant should be denied admission on grounds of religious belief. By 1830 the theological course had been abandoned, and the institution became, and remains today, distinctly a nonsectarian college of liberal arts. Though without official ties to any denomination, the college is proud of its Baptist heritage and support.

When the Civil War threatened to force closing of the college, the struggling institution was saved by a generous gift from Gardner Colby, a prominent Baptist layman of Newton Centre, Massachusetts, and in 1867 the grateful trustees changed the name to Colby University. In 1899, sensing that the college had never become a university in fact, the board changed the name to Colby College.

In the first class receiving degrees in 1822 was George Dana Boardman, pioneer of a long line of Colby missionaries to foreign lands. A graduate in 1826 was Elijah Parish Lovejoy, who suffered martyrdom for the cause of freedom of the press when his persistent antislavery articles led to his death at the hands of a mob in Alton, Illinois, at the age of thirty-four.

Colby first admitted women in 1871, when Mary Low was the lone female student. By 1890 the number had so increased that President Albion Woodbury Small proposed, and the trustees adopted, a system of coordination, provid-
ing for men's and women's divisions with separate classes. In time coordination changed to coeducation, and Colby is now officially a coeducational college.

After the first world war Colby found its campus confined to thirty crowded acres hemmed in by the tracks of the Maine Central Railroad. On the campus were ten buildings, while six others sprawled into the downtown area. In 1930 the trustees voted that "as soon as feasible" the college must move to a new site.

For twenty anxious years after this decision, President Franklin Winslow Johnson led a valiant and finally successful campaign to move the college, despite the obstacles of a great depression and a second world war. Colby was gradually transferred, between 1943 and 1952, to its new site on Mayflower Hill, on land given by the citizens of Waterville.

In 1942 Dr. Johnson was succeeded by President J. Seelye Bixler, who for eighteen years extended and solidified the program on the new campus, securing national acclaim. Since 1960 President Robert E. L. Strider has brought Colby further renown, both for its physical plant and the significant strengthening of faculty and program.

The growth of Colby since the transfer to Mayflower Hill has been striking. On 1,400 acres there are now thirty-eight buildings and several playing fields. Enrollment has risen from 600 to 1,500, and students come from two-thirds of the states and many foreign countries. The faculty, numbering fifty-six in 1940, now is 131. Endowment has increased from three million to thirty-two million dollars. The physical expansion has been accompanied by growth in variety and quality of the curriculum.

In 1963 Colby College observed its 150th anniversary with a series of events emphasizing the college's heritage and its responsibility for the future. That academic year was a milestone, but no event had more significance for the college than its selection by the Ford Foundation for development as a "regional center of excellence." Colby received in June, 1962, a challenge grant of $1.8 million in the foundation's Special Program in Education, which was successfully matched on a two-to-one basis in three years. Officials of the Ford Foundation chose a select number of
liberal arts colleges to be included in the program “because of the importance of the liberal arts — the humanities, natural sciences, and social sciences — in cultivating the thoughtful leadership and independent opinion essential in a free society.” Colby has continued to explore the possibilities of the liberal arts, experimenting with educational innovations — enriching the traditional liberal arts program while remaining responsive to a changing universe.

PRESIDENTS

<table>
<thead>
<tr>
<th>Years</th>
<th>President</th>
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<tr>
<td>1822-1833</td>
<td>Jeremiah Chaplin</td>
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<td>1833-1836</td>
<td>Rufus Babcock</td>
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<td>1836-1839</td>
<td>Robert Everett Pattison</td>
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<td>1841-1843</td>
<td>Eliphaez Fay</td>
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<td>1843-1853</td>
<td>David Newton Sheldon</td>
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<td>1854-1857</td>
<td>Robert Everett Pattison</td>
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<td>1857-1873</td>
<td>James Tift Champlin</td>
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<td>1873-1882</td>
<td>Henry Ephraim Robins</td>
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<td>1882-1889</td>
<td>George Dana Boardman Pepper</td>
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<td>1889-1892</td>
<td>Albion Woodbury Small</td>
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<td>1892-1895</td>
<td>Beniah Longley Whitman</td>
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<td>1896-1901</td>
<td>Nathaniel Butler, Jr.</td>
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<td>1901-1908</td>
<td>Charles Lincoln White</td>
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<td>1908-1927</td>
<td>Arthur Jeremiah Roberts</td>
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<td>1929-1942</td>
<td>Franklin Winslow Johnson</td>
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<td>1942-1960</td>
<td>Julius Seelye Bixler</td>
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<td>1960-</td>
<td>Robert Edward Lee Strider II</td>
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COLBY TODAY

Colby is a coeducational undergraduate college of liberal arts committed to the belief that the best preparation for life in our world, and especially toward the professions that require further specialized study, is a broad acquaintance with human knowledge rather than narrowly concentrated training in limited areas. It is the pursuit of truth, free and unrestricted, for truth itself is almost infinitely various.

In addition to a comprehensive investigation of our heritage, the Colby student is given an opportunity to explore thoroughly a major field of study.

Consistent with the philosophy of the college, responsibility is given each student in the determination of the academic program and in the regulation of social life and
daily living. Toward this end, advising, guidance, and counseling are available. The recommendations of the Constitutional Convention in 1969, adopted by the board of trustees, and of a similar convention reconvened in the spring of 1972, revised the governmental structure of the college to make possible a productive sharing of responsibility in the reaching of decisions. Through work on committees at both the faculty and board levels, this process involves students, faculty, alumni, and parents, as well as the administration and trustees.

Emphasis on independent thought and enterprise by students is nothing new. Colby's January Program of Independent Study, initiated in 1962, encourages the student to acquire the habit and the methods of exploring a particular field of knowledge on his own, which can be carried over beyond graduation and through life.

Students are strongly advised to consider graduate study in further preparation for the professions. Each year a number of Colby graduates enter medical, law, and divinity schools and graduate schools of education, engineering, business, and arts and sciences.

On the occasion of the college's 150th anniversary, in connection with a convocation dedicated to the general subject The Heritage of Mind in a Civilization of Machines, President Strider wrote: “Colby and other colleges were founded upon ideals that have not changed. A center for sound learning in the quiet wilderness of Maine in 1813 was something to be desired. The quiet wilderness almost everywhere is gone, and the cacophonous megalopolis that stretches the length of our Atlantic coast has crept to the margins of the forests to the North. But the need for sound learning remains, and the human race, wherever it is found, still faces the fundamental questions that are prompted by man's perennial curiosity.” In the 1970's Colby College maintains this commitment.
The Campus

In 1952 Colby completed the move from its original campus in downtown Waterville to Mayflower Hill, two miles west of the city. Today thirty-eight buildings stand on a campus of 1,400 acres, one of the most modern and beautiful in the nation.

The first building was Lorimer Chapel. The main chapel, in early New England style, contains an organ built in the classical tradition by Walcker of Ludwigsburg, Germany. Its specifications were drawn up by Albert Schweitzer. The Rose Chapel adjoins the main building.

At the center of the campus is Miller Library, described on page 12.

The Keyes and Life Sciences buildings provide facilities for science programs, with special collections, museums, a seismograph, reference libraries, laboratories, and conference rooms.

The humanities and social sciences are centered in the Elijah Parish Lovejoy building, named for the Colby graduate who was one of America's earliest martyrs for freedom of the press. Here also are faculty offices, laboratories for modern languages and psychology, and an auditorium.

Administration offices are housed in the Eustis building.

The Bixler Art and Music Center has classrooms, studios, departmental libraries, auditorium, rehearsal hall, and practice and listening rooms. An expansion of the center will be completed in the summer of 1973 as part of the college's $6.7 million Plan for Colby. The college's permanent collection of paintings, sculpture and other arts, and travelling exhibitions, are regularly shown in the Colby College Art Museum. The Given Auditorium is acoustically designed for musical performances and is used for chamber music, lectures, and films.

Colby is a residential college where students are expected to live on campus. Classes are distributed equally through all eighteen dormitories, some of which are coeducational (men and women on separate corridors). In addition to these dormitories, there are eight fraternity houses on campus. In special circumstances, some students have the option of living in Waterville. There are four coeducational dining halls as well as two student unions. Roberts Union
houses the Sherman M. Perry Infirmary, student organization offices, the campus radio station, crafts rooms, lounges, and the Seaverns Bookstore. The Ninetta M. Runnals Union contains lounges, a gymnasium with stage for dramatics and lectures, and a student-operated Coffee House.

Indoor sports facilities are contained in the new physical education and athletic complex and consist of the Wadsworth Gymnasium (badminton, volleyball, and four basketball courts), Alfond Ice Arena, the fieldhouse (an eighth-of-a-mile track, a baseball diamond, and three tennis courts), the Dunaway Squash and Handball Courts (consisting of seven singles and one doubles), the swimming pool, and a weight training room.

Outdoors there are some fifty acres of playing fields: two football fields, two baseball diamonds, two soccer fields, fourteen tennis courts, and space for field hockey, archery, and informal games. Community facilities include bowling lanes and riding stables. Approximately three miles from campus, the college owns a ski area which has a T-bar lift, lighted slope, jump, lodge, and snowmaking equipment.

Part of the woodland surrounding the campus has been designated as a wildlife sanctuary, The Perkins Arboretum and Bird Sanctuary, and includes 128 acres.
The Library

The Miller Library, focal point of the campus, furnishes printed and audiovisual materials for assigned and recreational reading, reference, research, and independent study. Reading rooms and individual carrels provide study areas for more than a third of the student body. The building is open from early morning until late at night each day during the academic year.

An open-stack system allows browsing through the collection of more than 325,000 volumes. The microfilm collection is extensive, and the library has subscriptions to more than 1,000 journals. The federal government supplies many of its publications, and a regional document library provides easy access to other government publications. The library is a member of the New England Library Information Network.

Special collections of first editions and manuscripts in the Colby library have achieved international recognition. The Edwin Arlington Robinson Memorial Room, named for the great Maine poet, contains his books, manuscripts, letters, and memorabilia. The Thomas Hardy collection, also in the room, is the most extensive in this country. Authors represented in the Robinson Room include E. A. Housman, Sarah Orne Jewett, Kenneth Roberts, Henry James, Willa Cather, John Masefield, William Dean Howells, and Thomas Mann. The John and Catherine Healy Memorial Room contains the James Augustine Healy Collection of Modern Irish Literature. This includes numerous inscribed copies, manuscripts, and holograph letters of William Butler Yeats, Sean O'Casey, James Joyce, George Bernard Shaw, and many others.

The Academy of New England Journalists has established its archives in Miller Library. The Academy Room also contains current issues of some thirty-five daily newspapers.

The Colby Library Associates is an organization of friends of the library, many of long standing, representing both students and faculty. Dues are used to purchase books and manuscripts which the library could not otherwise acquire. Members receive the Colby Library Quarterly.
The Academic Program

The courses in the curriculum are classified under five divisions. In the Division of Humanities are classics, English, art, music, and modern foreign languages. The Division of Social Sciences includes administrative science, economics, sociology, education, psychology, history, government, philosophy, and religion. In the Division of Natural Sciences are astronomy, biology, chemistry, geology, mathematics, physics, and computer science. The Division of Physical Education and Athletics, besides offering courses, administers the intercollegiate athletic and intramural sports program. The Division of Aerospace Studies administers the program for students in the Air Force Reserve Officers’ Training Corps.

Certain interdepartmental courses take content and staff from more than one department, and sometimes from more than one division.

The student at Colby normally takes from twelve to eighteen credit hours in each semester.

To assure distribution among the several divisions mentioned above, students must include English composition and literature, a foreign language (unless exempted by examination), and courses to meet “area” requirements in the humanities, social sciences, and natural sciences. Programs are usually planned so that the majority of these requirements are met within the first two years, leaving the junior and senior years for “major” concentration and for free electives.

Each freshman is assigned to a member of the faculty who advises him during the first year; at the end of that year he is assigned a new adviser from the department in which he has declared his major.

Prospective students frequently ask what subjects they will study — especially in the freshman year. It would be misleading to present any specific pattern of courses for either of the first two years. The programs of individual students may vary widely because there is considerable latitude within the requirements. The student preparing for a scientific career or the study of medicine will begin electing scientific subjects at once. Many major departments
In both the natural and social sciences recommend mathematics for the freshman year. Whatever his inclinations, each student should discuss his prospective program with his adviser, noting carefully the recommendations and requirements of areas in which he might later wish to major.

**GRADUATION REQUIREMENTS**

To qualify for the degree of bachelor of arts, a candidate must meet specific requirements in quantity, quality, distribution, and concentration and must also complete a January program for every first semester in residence to a maximum of four.

**QUANTITY**

Effective for students entering Colby in the fall of 1972 and thereafter: a minimum of 120 semester credit hours, at least 105 of which must be earned in conventionally graded academic courses. The remaining fifteen credits may be earned in (1) conventionally graded courses, (2) courses graded on a pass/fail basis, or (3) independent, not regularly scheduled, programs. For students who entered Colby prior to the fall of 1972: a minimum of 105 credit hours and eight semesters of residence.

**QUALITY**

A minimum of 210 quality points in 105 credit hours earned in conventionally graded academic courses. For each credit hour, a mark of \( A \) entitles the student to four points, a mark of \( B \) to three points, a mark of \( C \) to two points, and a mark of \( D \) to one point. No points are given for marks below \( D \). Two points are awarded for each hour of \( Cr. \) in specifically designated nongraded courses.

**DISTRIBUTION REQUIREMENTS**

1. **ALL COLLEGE REQUIREMENTS**
   
   A. *English Composition and Literature*: Six credit hours. This requirement will be met by English 115 and English 152.
   
   B. *Foreign Language*: A basic knowledge of one ancient or modern foreign language. This requirement may be met in one of four ways:
      
      (1) Giving evidence of satisfactory achievement in a foreign language taught at Colby by attaining before entrance a score of 600 in a College Entrance Examination Board foreign language achievement test.
(2) Successful completion of three credit hours in courses numbered above 113 in an ancient or modern foreign language offered at Colby College, with the exception of critical language courses numbered 191, 192, 193.

(3) For a transfer student who has studied a foreign language not taught at Colby, the requirement will be fulfilled if he has completed at an accredited institution the equivalent of a second year of that language at the college level with marks high enough to make the work acceptable toward the Colby degree.

(4) For a foreign student whose native language is not English, knowledge of his native language will be recognized as fulfillment of the language requirement, subject to the approval of, and possible testing by, the Department of Modern Foreign Languages.

II AREA REQUIREMENTS

A minimum of six credit hours in each of the areas described in III below. Three of the credit hours in the natural sciences must involve laboratory experience.

III AREAS

A. HUMANITIES: LIST OF SUBJECTS

Art
Classics (except Ancient History)
Comparative Literature
Fundamentals of Dance
English (except 111, 112; 113, 114; 115; 131d, and 152)
Greek
Latin
Modern Languages (above the intermediate level)
Music
Philosophy and Religion (certain courses: Religion 223, 224; 311, 312, 351, 352, 353, 358; Philosophy 313, 355, 356, and 372; philosophy and religion seminars when topics are relevant)

B. NATURAL SCIENCES

Astronomy
Biology
Chemistry
Computer Science
Geology
Mathematics
Physics

c. Social Sciences
Administrative Science
Ancient History
Economics
Education
Government
History
Philosophy and Religion (except courses listed among the humanities)
Psychology
Sociology

Physical Education
Completion of freshman and sophomore physical education requirements is required for graduation. The sophomore requirement may be waived by the Department of Physical Education.

Residence
Candidates for the degree entering Colby in the fall of 1972 or thereafter must earn at least sixty credit hours, including fifty-three in conventionally graded academic courses. They must be resident students at Colby for at least four semesters, including the last two semesters before graduation. A resident student is defined as a full-time student, taking at least twelve credit hours.

Credits earned at another institution while concurrently registered at Colby may not be applied toward graduation requirements.

Students who entered Colby prior to the fall of 1972 may elect to graduate under the new requirements. Those who elect to complete under the requirements in effect at the time of matriculation are referred to the May 1971 Colby College Bulletin, catalogue issue, for regulations pertaining to residence.

Exemption by Examination
When appropriate, either all college or area requirements, as well as certain requirements for the major, may be ab-
orimer Chapel from Sturtevant

Award-winning dormitory complex
Championship meet, Fieldhouse
solved by examination without course enrollment, at the discretion of the department concerned. No credit hours accrue from such examinations.

OPTION FOR CERTAIN STUDENTS

A student returning to college after an absence must meet any new requirements for graduation if he still needs more than one-half of the total number of credit hours required for graduation. If he still needs not more than one-half of the total number he may meet either the new requirements or those in effect when he first enrolled.

Near the end of the freshman year, each student elects a tentative major in which he wishes to concentrate. The major may be chosen in a single subject or in one of a number of designated combinations.

The respective academic departments specify the courses constituting a major in each department. Before selecting a major, the student should acquaint himself thoroughly with the requirements detailed in the section on Divisions, Departments, and Courses of Study.

With the consent of the departments concerned, a student may change his major. Forms for officially effecting such change must be obtained from and returned to the registrar's office.

Any student whose cumulative points in courses completed toward the major fall below a certain scale loses his right to continue with that major. The required scale is as follows: 1.5 grade point average for the first two courses; two points for each credit hour thereafter.

Each department designates the courses to which the point-scale applies for a major in that department. A student below the point-scale may, with the consent of the department concerned, be accepted or retained for one semester as a probationary major.

A student may change his major at the end of the junior year if he has completed, with the required points, the equivalent of at least twelve credit hours toward the fulfillment of the new major. If, at the end of his junior year, a student finds no department in which he can be accepted as a major, he cannot continue in college. If, in the senior
Interdepartmental Majors

Approved interdisciplinary majors are offered in the following areas:

- American Studies
- Ancient and Medieval Western Studies
- East Asian Studies
- Environmental Studies

In addition, combined majors are offered in the following areas:

- Administrative Science-Mathematics
- Classics-English
- Classics-Philosophy
- Economics-Philosophy
- Geology-Mathematics
- Geology-Chemistry
- Philosophy-Mathematics
- Philosophy-Religion
- Physics-Mathematics
- Psychology-Mathematics

Reading Period

During the two weeks preceding the final examinations at the close of the second semester, a special reading period is scheduled for many courses numbered in the 300's and 400's. Not a time for review, this period frees the student from the routine of class meetings so that he may devote full time to independent study of freshly assigned reading or laboratory work. Although classes do not meet, instructors are available for consultation. Reading-period assignments are tested in the final examinations to a maximum of one-third of the examination time.

Whether to have a reading period is decided by each instructor, who informs students whether classes are to continue meeting during the two weeks. Reading periods are not held in courses exempted from final examinations.

January Program of Independent Study

In the academic year 1961-62, Colby introduced an educational experiment with its January Program of Independent Study. Course work of the first semester takes place entirely between Labor Day and the beginning of Christmas vacation, and January is devoted to work distinct from year, the cumulative points in courses completed toward the major fall below the required number, the major requirement is not fulfilled, and the degree cannot be awarded.
the formal course of study of the first and second semesters.

To freshmen and sophomores various programs are offered. Methods of conducting these programs differ from instructor to instructor, but each student works on a single project or problem throughout the period. Free from the conflicting demands of the usual schedule, he may pursue his thoughts and research single-mindedly, or at least with a minimum of interference. Every attempt is made to assign students in accordance with their choices from among the topics or problems available. An underclassman wishing to undertake an individualistic January topic outside the regular group offerings, may do so provided his topic is accepted for direction by a faculty member who will be "on" in the January period when it is to be carried out, and provided that the topic is approved by the committee on special programs.

The January program for juniors and seniors follows no prescribed pattern. All arrangements are made through the student's major department. Departments usually encourage the student to select a project, sometimes as early as the preceding May, and to prepare the ground by determining availability of books and materials, and by fulfilling any other preliminary requirements suggested by the department. For projects carried on outside of the subject matter of the major department, forms for approval by the committee on special programs must be filed with the director of special programs.

Some projects may be carried on away from the campus, using facilities available at other centers, at laboratories, museums, or libraries. Each project, on or away from campus, must have departmental or committee approval, and each student is wholly responsible for meeting his obligations.

This is, in effect, not one program but many. Individual departments and instructors have a free hand to explore types of programs and methods of presentation.

Work carried out in January is graded "honors," "pass," or "fail." To be eligible for graduation, each student must successfully complete one January program for every first semester in residence, to a maximum of four.
A limited number of senior scholars, selected by a faculty committee, devote a major part of their time to approved scholarly subjects. Each senior scholar pursues this work under the guidance of a faculty member, and a scholar may earn six credit hours per semester.

The Center for Coordinated Studies is an experimental unit whose existence at Colby dates from 1969. It has three declared objectives: (1) to create, through interdepartmental programs of study, more coherent patterns for a liberal arts education; (2) to create and sustain a greater degree of responsiveness between students and faculty in the design and conduct of the curriculum; and (3) to create a more pervasive learning environment for students.

The center has not aspired to become a “college within a college,” with its own distinctive program and student body. It tries, rather, to function as a source and testing-ground for approaches that may help the student break down the walls between college life and learning, and bridge the gaps among the “islands of knowledge” that tend to characterize a completely departmentalized educational environment.

Located in coeducationally grouped residence halls, the center provides for classrooms, offices, living, and dining. Students and faculty members shape and combine courses of study within areas of common interest. Thus, groups within the center have focused, at various times, on such cross-departmental topics as: Studies in Behavior (biology and psychology); Literature and Politics; Studies in Comparative Literatures; Homer and History; The Concept of Evolution — Its Impact on Thought and History; Bilingual and Bicultural Studies; East Asian Studies; Existential Thought and Literature. Areas, and the courses within them, undergo continuous modification and change. A student who is introduced to college-level work in any area — whether it be biology, history, classics, or another — through enrollment in the center, should proceed toward a major in that area with a richer understanding of the interrelatedness of all of man’s endeavors.

Students who join the center should plan to devote a
good portion of their academic schedules and their energies to its activities, and demonstrate a continuing, active concern for both the living arrangements and the educational programs.

JUNIOR YEAR ABROAD

The academic year 1970-71 marked the opening of Colby's own Junior Year Abroad program, established in France with the cooperation of the Université de Caen. Enrollment is limited to students of Colby College. Details of the program are available from Colby's Department of Modern Foreign Languages.

Opportunities for study abroad in other countries are available through the programs of other institutions or independently.

Permission to study abroad during the junior year rests with the committee on foreign study and student exchange programs. Credit for such study is guaranteed only if the student follows a program approved in advance by the major department and the committee. Application must be made by November 15 for spring semester study abroad and by April 15 for fall semester; forms can be obtained from the committee chairman. Approved applicants must notify the dean of students' office of their plans by December 15 for a second semester abroad or by May 1 for a first semester abroad.

Committee approval presupposes an academic record for the first three semesters high enough to give promise that the student will complete his program of foreign study with credit to himself and to the college.

STUDENT EXCHANGE PROGRAM

A student exchange program was begun in 1960-61 between Colby College and Fisk University. Each student pays regular tuition and board-and-room charges at his home college, though residing and studying at the other institution. The only major added expense is for travel. Similar exchange programs are conducted with Pomona College and, informally, with Bogazici University in Turkey. Ordinarily, exchanges are arranged for a single semester of the junior year. Students may obtain further information from the committee on foreign study and student exchange programs.
FOREIGN STUDENTS

Colby has traditionally encouraged the enrollment of students from other countries and is actively engaged in programs of international cooperation and exchange. Colby is a participant college in the Latin-American Scholarship Program of American Universities (LASPAU).

Students from foreign countries should apply to the dean of admissions.

Financial aid to foreign students is ordinarily granted only to those students who have been recommended by LASPAU or by the Institute of International Education in New York City. All candidates for financial aid not eligible to participate in one of the previously described programs should apply to the nearest representative of the Institute of International Education. At the time of application, the student should request that his completed papers be forwarded to Colby College.

REGISTRATION

Students must register for courses of each semester on the regularly assigned days. A fine of five dollars for each day of delay is charged on the student's semester bill for registration later than the date specified.

No student will be permitted to register later than the seventh class day of the semester, unless the dean of students certifies in writing that exceptional circumstances justify such action.

Before registration for any semester, each student must secure from the treasurer's office a receipt for the tuition fee and any other required advance payments and present these at the registrar's office.

The treasurer is not authorized to permit deferred payment of any fees that the board of trustees requires to be paid in advance of registration. It is important that students understand the distinction between payment of fees and registration. Each student must complete the financial procedures specified by the treasurer before he can register.

ELECTION OF COURSES

Each spring, with the approval of their advisers, students elect programs of study for the ensuing year; these elections, with approved revisions, are confirmed during the fall registration period. A student's academic program
must bear his adviser’s approval and be properly filed with the registrar; no credit will be granted for work in a course for which a student is not correctly registered. A continuing student registering in the fall is fined two dollars per credit hour if he fails to make spring election.

With the approval of the adviser, voluntary changes in a student’s program may be made during the first eight class days of a semester, the first day of classes being considered the first day of the semester. After the eighth day, no changes may be made voluntarily from one course or section to another.

Changes of section within a course must be approved by the department or course chairman.

No student may elect more than eighteen hours unless a six-course program exceeds this total. No student whose overall grade-point average in all courses taken in the previous semester is below 1.8 may elect more than fifteen hours unless a five-course program exceeds this total. The only exception is that a student who is not eligible by this rule, but who must have the extra credit hours to complete his degree requirements, may elect in one semester of his senior year one course in excess of these limitations.

Students may elect to take a limited number of courses on a pass/fail basis (see GRADUATION REQUIREMENTS). Departments may specify that major courses must be taken on a conventionally graded basis; it is the student’s responsibility to be aware of the policy of his department.

Students graduating under the 105 credit hour and eight semester residence requirement must meet all graduation requirements in conventionally graded courses; only electives beyond 105 credit hours may be taken pass/fail.

Forms for declaring pass/fail options can be obtained at the registrar’s office. The form must be completed and returned no later than the last day of the change of course period of the semester in which the course is to be taken. Once submitted, a pass/fail election may not be voluntarily revoked. Letter grades submitted by instructors will be converted to $P$ (for grades $A$ through $D$) or $NP$ before being posted on permanent record cards. No information about
the “quality” of a $P$ will be released by the registrar’s office, even upon request of the student himself.

**AUDITING COURSES**

Colby students may register to audit courses (not for credit) by obtaining written consent of the instructor and their adviser. They are not charged an auditing fee, nor is the audit recorded on the student’s permanent record.

Adults who are not students of the college may register to audit courses at a fee of $5 each semester for each credit hour, provided they obtain written consent of the instructor and of the dean of admissions. Members of the college staff and their families may register with the approval of the dean of the faculty to audit courses, and take for credit one course, without charge. Permission to audit will 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. For this reason, auditing is seldom permitted in courses where the method of instruction involves significant individual attention and criticism. Under no circumstances can academic credit be given an auditor, nor can he later convert an audited course into an accredited course merely by paying the regular course fee. The decision whether the course is to be audited or taken for credit must be made at entry.

**EXAMINATIONS**

At the close of each semester, a period of days is set aside for examinations in all courses except those which are specifically exempted by the chairman of the department concerned. The time and place of semester examinations are fixed by the registrar. The mark for the examination may constitute up to half of the total course mark.

No student may be excused from any semester examination except for illness or emergency so grave as to justify excuse in the judgment of the dean of students, or unless he has filed with the registrar a valid conflict-of-exams form based on his having scheduled three examinations in a single day or any four consecutive examinations. An excused student may be examined at a later date convenient
to the instructor but not later than the seventh class day of the following semester. Under no circumstances may a student be permitted to take a semester examination earlier than the date on which it is scheduled. A student is entitled to only one semester examination in any course; failed examinations cannot be repeated.

With the consent of the dean of students, a student may for unusual reason accept, in lieu of semester examination, a mark for the course equal to seventy-five percent of his average without examination. Because this procedure is costly in reduction of final mark, few request it.

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

Dishonesty in an examination is a serious offense. The instructor may dismiss the offender from the course with a mark of $F$ and refer the case to the dean of students for any further action.

A student's class standing is determined by the committee on standing and is based on the number of credit hours passed.

Throughout the semester, at the discretion of the professor, warnings are sent to students. A major warning means that a student's standing at that time is below passing; a minor warning that, though passing, standing is so low that failure of the course is likely.

Official marks in letter grades of $A$, $B$, $C$, $D$, $E$, $F$ are issued to students at the end of the first semester; at the end of the second semester, marks are mailed to students' homes by the registrar. In practice, a student often obtains his mark directly from the instructor, but the only official record is that in the registrar's office. If a course has been elected to be taken on a pass/fail basis, the registrar will convert the letter grade to $P$ or $NP$ before recording and releasing it.

In a course designated as a year course, the tentative mark, showing progress at the end of the first semester, carries no credit toward graduation. For such year courses,
no credit is given until the completion of the full year's work. A student who has failed a year course may not secure credit by repeating merely the second semester even if his tentative mark at the end of the first semester is passing; he must repeat the entire year to obtain credit.

A mark below $D$, except in courses referred to in the next paragraph, indicates that a course has been failed and that credit thus lost must be made up by an additional course taken subsequently. If the failed course is specifically required for graduation, it must be repeated.

A mark of $E$ is given only in specifically designated first semester courses. The mark $E$ signifies temporary failure, which may be made up by improved work in the sequentially related course during the second semester. Passing the second semester in such a course entitles the student to a change of the first semester mark from an $E$ to a passing mark, as determined by the department concerned.

A mark of Abs. indicates that a student has been absent from final examinations. A mark of Inc. indicates a course not finished for some reason other than failure to take the final examinations. Grades of Abs. or Inc. must be made up within limits set by the instructor, and not later than the seventh class day of the succeeding semester. After this date, any remaining mark of Abs. or Inc. will be changed to an $F$. The dean of students may give limited extensions for the completion of work without penalty, but only for excuses similar to those acceptable for missing a final exam.

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

Marks of $W$ and $WF$ indicate withdrawal from course, and represent the student's standing at the time of withdrawal. $WF$ indicates that the student was failing; $W$ indicates either passing or no basis for judgment. These marks are excluded from computation of all averages except that $WF$'s incurred within the last thirty calendar days of the semester are treated as $F$'s in averages. Withdrawal is permitted through the final class day of the semester.

For abandoning a course without permission the student shall receive an $F$.

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

When a student's academic record is seriously deficient, the decision to retain or dismiss him from college is made by the committee on standing. The committee considers both quantity and quality of work in determining whether progress is satisfactory. The faculty has endowed this committee with full power to deal with these matters.

WITHDRAWAL

Voluntary withdrawal from the college may be effected officially by filing a notice of withdrawal properly approved by the treasurer and the dean of students; the official form may be obtained from the dean. The date on the approved notice of withdrawal is the basis for computing any refunds which may be due. A student who leaves the college and neglects to effect official withdrawal until later cannot collect a refund for the elapsed interval.

TRANSFERRED CREDITS

Courses taken at other institutions may be credited toward the Colby degree under the conditions and circumstances listed below. In addition to the conditions listed on these pages, there are restrictions detailed in the section on the RESIDENCE requirement (above) that should be read with care.

(1) When students are admitted by transfer, their records are tentatively evaluated by the dean of admissions to determine the transferable equivalent in Colby courses. These courses are credited subject to confirmation through satisfactory progress at Colby College.

(2) Students on approved Junior Year Abroad or student exchange programs will receive credit under terms specified by the committee on foreign study and student exchange programs. Credits earned in summer school may be transferred if approved by the appropriate Colby department; forms for this purpose can be obtained at the registrar's office and should be filed prior to taking the course. No student may receive credit toward graduation for more than fourteen credit hours taken in summer school for the purpose of making up deficiencies incurred at Colby.
(3) When a student who has been dropped from the college applies for readmission, courses taken during the period of separation are examined for transferable credit on the same basis as courses presented by new transfer students.
Admission

Colby College admits students only as candidates for the degree of bachelor of arts. The academic record of an applicant, the degree to which he has demonstrated intellectual curiosity, and evidence of motivation are of primary significance; also important are character and personality.

The college actively seeks applicants who have special qualities or talents to contribute to the Colby community, as well as those who represent diverse geographical, racial, and economic backgrounds. Such candidates are expected to be within acceptable ranges of academic ability and preparation. No person is excluded on grounds of race, religion, or national origin.

The quality of a candidate’s preparation is judged by the academic record, the recommendations of school authorities, and results of tests administered by the College Entrance Examination Board.

To ensure a common educational base, sixteen academic preparatory units are recommended, including the following minimums: English 4, foreign language 2, college preparatory mathematics 3, history or social studies 1, science (laboratory) 1, electives 5.

APPLICATION PROCEDURE

(1) Candidates submit applications provided by the admissions office prior to February 1 of the year admission is desired. A nonrefundable fee of $20 accompanies each application.

(2) Colby grants early decision to well-qualified candidates under a common early-decision program subscribed to by a number of colleges. Applicants submit application papers, junior SAT’s, and three achievement tests prior to November 1, including a statement that Colby is the student’s first choice, that early decision is requested, and that the candidate will enroll if admitted, provided that adequate financial aid as determined by the Parents’ Confidential Statement is granted. Early decision candidates may file regular applications to other colleges with the understanding that these will be withdrawn if the candidate is accepted on an early decision basis by Colby.

College notification of action is normally given no later than December 1, and successful candidates are exempted
from further admissions tests except for placement purposes. Tests taken before the senior year should accompany early decision applications. Successful applicants for financial aid are notified of the amount of the award at the time of acceptance, provided the financial aid forms are complete. Candidates who are not approved for early decision are deferred to the college's regular admission plan and are reviewed without prejudice at the usual time in the spring.

(3) Interviews are not required although applicants who have not visited the campus are encouraged to do so, and guides are provided weekdays and on Saturday mornings when the college is in session. Opportunities to meet with representatives of the admissions office are available except during February, March, and April. Individual appointments may be made upon request except during the period noted above, and these should be scheduled well in advance. The college will arrange meetings with alumni representatives for applicants living some distance from Waterville.

(4) The schedule for admission applicants is:

- **November 1**: Deadline for filing for early decision and financial aid for early decision applicants.
- **December 1**: Notification of decisions on early decision applications.
- **February 1**: Deadline for filing applications for regular admission and financial aid.
- **Mid-April**: Notification of actions by admissions committee to regular applicants.
- **May 1**: Accepted applicants confirm intention to attend Colby by payment of a nonrefundable advance tuition deposit of $100.

All candidates are asked to submit the results of the Scholastic Aptitude Test and three achievement tests of the College Entrance Examination Board. The Scholastic Aptitude Test should be taken no later than December or January of the senior year. The achievement tests should include English composition, while the others may be of the candidate's choice. A language achievement test for placement purposes may be submitted any time prior to registration in
September. A score of 600 on the language test meets the college language graduation requirement.

<table>
<thead>
<tr>
<th>ADVANCED STANDING</th>
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<tbody>
<tr>
<td>Colby participates in the Advanced Placement Program of the College Entrance Examination Board, providing academic credit for students qualified for advanced standing. Those interested must take CEEB advanced placement tests and have them submitted to Colby for evaluation. Students scoring 4 or 5 receive automatic placement and credit from the college. Scores of 3 and below are evaluated by the academic department concerned.</td>
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<thead>
<tr>
<th>EARLY ADMISSION</th>
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<tbody>
<tr>
<td>A small number of students are admitted each year without completing the senior year of secondary school. This is done only upon the recommendation of the secondary school and when a candidate has exhausted the educational opportunities at the school. Considerations of academic and personal maturity are important to the candidate and to the college in earlier-than-usual admission.</td>
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<table>
<thead>
<tr>
<th>TRANSFER STUDENTS AND VETERANS</th>
</tr>
</thead>
<tbody>
<tr>
<td>First consideration in admission is for freshmen, but some transfer students are accepted each year. Admission by transfer is normally limited to students with satisfactory academic and personal records from accredited colleges or universities.</td>
</tr>
<tr>
<td>Transfer application forms, including a special confidential recommendation form, may be obtained from the admissions office. Credits from accredited institutions are generally accepted for courses in which grades of C or better are received and which are comparable to courses offered at Colby, subject to our two-year residency requirement.</td>
</tr>
<tr>
<td>Veterans may request advanced standing consideration for completion of service schools or USAF/ courses in advance of matriculation. Credit is not granted for military service or College Level General Educational Development Tests.</td>
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<tr>
<th>NONMATRICULATED STUDENTS</th>
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</thead>
<tbody>
<tr>
<td>Subject to limitation of enrollment in individual courses and the consent of the instructors, the college permits adults to enroll as nonmatriculated students. Such persons must</td>
</tr>
</tbody>
</table>
present evidence that they are qualified to pursue the intended courses and pay the fee of $95 per credit hour. Admission of nonmatriculated students is the responsibility of the dean of admissions.

| HEALTH CERTIFICATE | Before matriculation, each student must present a satisfactory health certificate signed by a physician, including evidence of tetanus toxoid immunization and chest X rays. It is recommended that polio immunization be completed prior to entrance. Preregistration cannot be guaranteed unless all required forms are received two weeks prior to registration. |
Orientation for Freshmen

The freshmen orientation program is planned with the aim of introducing students to the intellectual and social life of the college. Freshmen arrive a few days early for an orientation program. Meetings are arranged with advisers and representatives of student groups.

<table>
<thead>
<tr>
<th>READING TESTS</th>
<th>Tests during orientation week determine levels of speed and comprehension in reading. Those deficient are offered assistance in a developmental reading program.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACEMENT IN MATHMATICS</td>
<td>Interviews are scheduled for freshmen who have not taken the CEEB advanced placement examination in mathematics but who seek placement in Mathematics 211d (Calculus II), 212d (Calculus III), 241 (Elementary Statistics), or 243 (Finite Mathematics) without other prerequisites.</td>
</tr>
</tbody>
</table>
| PLACEMENT IN FOREIGN LANGUAGES | The college language requirement for 1973-74 is met at entrance by a score of 600 or more on the CEEB language achievement test. Students continuing a foreign language at Colby are placed on the basis of the language achievement test. Those presenting two or more units for entrance continue in courses above the 111, 112 level, with the following exceptions:
(1) If the last year of a student's study of the language was his sophomore year in high school, regardless of the number of years of previous study, he may enroll in 111, 112 for credit.
(2) If a student has had only two years of language work that terminated in the junior or senior year, he may repeat the language with credit if the department feels that the preparation received is not adequate for the 113, 114 level.
(3) If the student has completed three years of the language and the third year is either the junior or senior year in high school, he may not enroll in 111, 112 except with special permission of the department. |
# Fees and Financial Aid

### ANNUAL STUDENT CHARGES 1973-74

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$2,500</td>
</tr>
<tr>
<td>Board</td>
<td>$750</td>
</tr>
<tr>
<td>Room</td>
<td>$500</td>
</tr>
<tr>
<td>Dormitory Damage Deposit(^1)</td>
<td>$15</td>
</tr>
<tr>
<td>General Fee</td>
<td>$175</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$3,940</strong></td>
</tr>
</tbody>
</table>

### CALENDAR OF PAYMENTS 1973-74

<table>
<thead>
<tr>
<th>Period</th>
<th>Due Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upon acceptance</td>
<td></td>
<td>Admission deposit — freshmen $100</td>
</tr>
<tr>
<td>for admission</td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 1</td>
<td></td>
<td>Attendance deposit — upperclassmen $200</td>
</tr>
<tr>
<td>FIRST SEMESTER</td>
<td>On or before</td>
<td>One-half of annual student charges for tuition, board, and room, plus</td>
</tr>
<tr>
<td>August 31</td>
<td>August 31</td>
<td>the dormitory damage deposit and the general fee for the year $2,065(^2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Note: Admission, attendance, and room deposits as paid may be deducted from</td>
</tr>
<tr>
<td></td>
<td></td>
<td>this first semester payment.)</td>
</tr>
<tr>
<td>November 30</td>
<td></td>
<td>First semester bill (following pages)</td>
</tr>
<tr>
<td>SECOND SEMESTER</td>
<td>On or before</td>
<td>One-half of annual student charges for tuition, board, and room $1,875(^3)</td>
</tr>
<tr>
<td>January 20</td>
<td>January 20</td>
<td></td>
</tr>
<tr>
<td>March 31</td>
<td></td>
<td>Second semester bill</td>
</tr>
<tr>
<td>April 15</td>
<td></td>
<td>Room deposit for following year $50</td>
</tr>
</tbody>
</table>

**PAYMENTS MUST BE MADE IN ACCORDANCE WITH THIS CALENDAR OF PAYMENTS WHETHER OR NOT REMINDER NOTICES ARE RECEIVED FROM THE COLLEGE.**

\(^1\)The dormitory damage deposit does not apply to residents of fraternity houses.

\(^2\)Students who are permitted to eat or live off campus may deduct $375 for board or $265 for room and dormitory damage deposit from the amount due in advance of the first semester.
Students who are permitted to eat or live off campus may deduct $375 for board or $250 for room from the amount due in advance of the second semester.

No formal bills are issued for the following items:

**DEPOSITS**

**Admission Deposit — Freshmen:** A nonrefundable deposit of $100 is due on or before the date for confirmation of intention to attend. This deposit is deductible from the first semester payment due August 31.

**Room Deposit:** All upperclass students must, in order to reserve a room for the following college year, make a $50 deposit on or before April 15. This deposit will be forfeited if the student does not return to college unless the room reservation is withdrawn on or before July 1.

**Attendance Deposit:** A nonrefundable deposit of $200 is required of all upperclass students on or before July 1 each year. Room reservations and places in their respective classes will not be held for students failing to make this deposit. For entering students, the $100 admission deposit satisfies this requirement.

**ADVANCED PAYMENTS**

**Tuition:** The tuition charge is $1,250 per semester for schedules of nine to eighteen credit hours and must be paid prior to each semester in accordance with the calendar of payments. For schedules of fewer than nine hours and for hours in excess of eighteen, the tuition charge is $95 per credit hour. The tuition charge for hours in excess of eighteen will be included in the semester bill. Nonmatriculating students will be charged at the rate of $95 per credit hour.

**Board:** Board in college dining halls is charged at the rate of $375 per semester. Payment must be made prior to each semester in accordance with the calendar of payments. All students living on campus are required to pay board charges to the college.

**Room:** The room charge in college dormitories is $250 per semester, payable prior to each semester in accordance with the calendar of payments. Students are expected to occupy college housing facilities to the full extent of their availability. Other arrangements may be made only with spe-
specific approval of the dean of students. Dormitory reservations are made through the offices of the dean.

**Dormitory Damage Deposit:** All students living in college dormitories must pay a $15 deposit prior to the first semester in accordance with the calendar of payments. 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.

**General Fee:** The general fee is $175 for the year and is payable in full prior to the first semester in accordance with the calendar of payments.

**Student Activities:** Included in the general fee is a sum allocated for Student Government and such student organizations as it chooses to support.

**Health Services:** The general fee (compulsory for all students) also supports the college health services. Free service in the Sherman M. Perry Infirmary is provided during the regular academic year. Included in the general fee is sickness and accident insurance, which the college covers by separate contract with an insurance carrier. Nonboarding students are charged $4.40 per day for meals in the infirmary. There may be additional charges for special diets ordered by the college physician.

**SEMESTER BILL**

Charges for miscellaneous items not paid prior to registration are included on semester bills due November 30 and March 31. Included are charges for extra credit hours, chemistry laboratory fee, fraternity fee (see below), etc.

**MISCELLANEOUS**

The fee for each semester hour in excess of eighteen per semester is $95 per hour.

A chemistry laboratory fee of $20 per course is charged. Students enrolled in chemistry courses are required to pay for excessive breakage or loss of apparatus.

All fraternity men are charged a fee in excess of the room rent established for college dormitories. The fee applies whether the student resides in the fraternity house or not. The amount is determined by each fraternity.
All students other than transfer and accelerating students are required to have paid to the college the equivalent of eight semesters full tuition before being granted a degree.

Students may have official transcripts mailed to other institutions, prospective employers, or other authorized agencies by completing the transcript request form available at the registrar’s office. The fee for this service is $1 for each transcript after the first. Official college transcripts are not delivered to students. A student may have an unofficial transcript upon request; the same regulations and fee apply.

**PAYMENT OF BILLS**

Tuition, board, room, dormitory damage deposit, and general fee must be paid in full in accordance with the calendar of payments (see previous pages) before a student is permitted to register or attend classes. Students excluded from classes under this rule for longer than ten days may be suspended from college for the remainder of the semester. A fine of $2 per day may be imposed for failure to make payments of financial obligations to the college on or before the due date.

Plans providing for monthly payments at moderate cost are available through the Insured Tuition Payment Plan, 38 Newbury Street, Boston, Massachusetts 02116, and Education Funds, Inc., 36 S. Wabash Avenue, Chicago, Illinois 60603.

The treasurer cannot permit deferred payment of any portion of the charges due prior to registration but may, at his discretion, grant partial extension for a brief period on the semester bill. Concerning college bills, students and parents must deal directly with the treasurer, as no other officer of the college has authority over their collection.

**REFUNDS**

In case of voluntary withdrawal, refund may be made of the balance of a student’s account in excess of charges. Tuition and room rent are charged according to the following schedule:

- During first two weeks of classes: 20% charged
- During third week of classes: 40% charged
- During fourth week of classes: 60% charged
During fifth week of classes . . . . . . 80% charged
Thereafter . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 100% charged

Board is charged at the rate of $25 per full or partial week. No reduction is made for periods less than a full week.

A prorata charge for tuition, room, and board will be made to students drafted into the armed services and to students who withdraw upon advice from the college physician.

Whenever a student is required to withdraw because of unsatisfactory conduct, no refund will be made.

OVERPAYMENTS Credit balances on semester bills are ordinarily carried forward to the student's account for the following semester. After semester bills have been completed, requests for refund of credit balances will be honored promptly. Participants in tuition payment plans may make special arrangements for earlier refund at the office of the treasurer. Credit balances on the accounts of graduating seniors will be refunded automatically.

Refund is made directly to a student only upon written authorization, directed through the mails to the office of the treasurer, by the person responsible for payment of the account.

Information concerning the status of a student's account may be obtained from the treasurer's office upon request.

Colby College currently awards nearly one million dollars annually in the form of scholarships, loans, and campus employment to its students having financial need. A member institution of the College Scholarship Service (Princeton, New Jersey), Colby requires each applicant for financial aid to submit a Parents' Confidential Statement, analysis of which determines individual student need within the context of the college's financial aid policy and schedule of student fees.

Entering freshmen make application for financial aid by sending the completed pcs to Princeton by February 1 of the academic year preceding admission. (Students applying for early decision and financial aid should have their pcs
form filed in Princeton as early as possible in the fall of the academic year preceding admission.) Upperclass financial aid candidates arrange to have a PCS filed each year before April 20, so that the student's financial aid awards may be adjusted to changing family financial conditions. All aid recipients are expected to report appreciable changes in their family circumstances as soon as they occur.

**GIFT SCHOLARSHIPS** Gift scholarships, in the form of cash grants, total nearly $130,000 and are derived from endowment income, gifts made possible by the generosity of alumni, trustees, friends of the college, and foundations, as well as current income and government grants. Only Kling scholarships (for male descendants of colonial America) require special application, the remaining being administered by the financial aid office.

**SELF-HELP CAMPUS JOBS** Self-help consists of low-interest loans and/or campus jobs requiring up to ten hours per week. Approximately 250 students are employed as student workers in campus cafeterias, the library, and other part-time work positions. No job requires more than ten hours a week, but, at $1.60 per hour, a diligent worker can earn as much as $450 per school year, which he may receive as cash or credit toward his semester bill. Freshmen generally are ineligible for campus job assignment.

**WORK-STUDY PROGRAM** This program, federally funded, is designed to assist students from families of low income. Employment is ordinarily in off-campus jobs with youth organizations, poverty programs, and hospitals. Some campus work-study positions are available. Off-campus work-study pay varies with the experience and skill of the employee but is never less than the federal minimum wage. Work-study jobs are not ordinarily available to incoming freshmen.

**LOANS** Students on financial aid are expected to supplement their scholarships by borrowing from either of the two student loan programs:
(1) The *Guaranteed Loan Program*, sponsored by most eastern states and by the federal government, carries a seven
percent interest rate that accrues only upon the beginning of the repayment period, usually nine months (varies by state) after graduation. Application is initiated by the student through his own home bank.

(2) The National Direct Student Loan, federally funded but administered by the college, is intended to aid students with greater need. Because these funds are limited by federal appropriation, a limited number of Colby students are able to borrow under this program.

PACKAGED AID  The total family financial situation is considered for each applicant, and his financial aid is offered in the form of a package. For example, a typical package for an upperclass student showing need of $2,500, over and above what he and his family would be expected to contribute, would consist of a gift scholarship of $1,300. The student would be expected to provide the remaining $1,200 from a combination of campus employment and borrowing under one of the student loan programs described above. (All freshman aid packages include a self-help amount of $650, met generally by a loan.) Upperclass aid packages include self-help up to a maximum of $1,250, depending on need.

Financial aid is a privilege extended by the college to augment the family resources and ease the burden of the needy student.

Due to fund limitation, awards to entering freshmen are necessarily granted by the financial aid committee on a competitive basis. No applicant is denied aid on the basis of race, religion, or national origin.

Financial aid awards are granted within the parameters of the financial aid policy of the college and the current appropriated financial aid budget.

More complete information regarding financial aid can be found in the brochure Financial Aid at Colby College, which is available at both the admissions and financial aid offices.
Student Life and Activities

Colby College was founded by New England Baptists, and although it now does not maintain a formal relationship with any denomination, the college supports and encourages an ecumenical ministry on the campus.

The college chaplain acts as coordinator for the activities of a number of religious associations: Newman Club (Catholic), Hillel (Jewish), Canterbury Club (Episcopal), Colby Christian Fellowship (Evangelical Protestant), and Christian Science Organization. All of these groups use the sanctuary and social lounge of Lorimer Chapel. The Roman Catholic diocese of Portland provides the services of a part-time chaplain for Catholic students, and the local rabbi and the rector of the Episcopal parish also carry on a campus ministry.

Each Sunday morning a student group, under the direction of the college chaplain, conducts an all-college worship service in the chapel. Music for this service and for special concerts is performed by the students of the chapel choir under the leadership of Professor Adel Heinrich.

The chapel program sponsors a student volunteer corps of fifty to 100 members who give time each week to work as Big Brothers and Big Sisters with children in Waterville and neighboring communities.

Many Colby graduates have entered the ministry, and the list of missionaries is especially impressive. The missionary tablet in the Rose Chapel testifies to the participation of Colby men and women in home and foreign missions for a century and a half.

Throughout the year, outstanding scholars, musicians, and artists visit the campus. There are three lecture series — the Guy P. Gannett, Gabrielson, and Franklin J. Matchette — in addition to speakers invited by the Friends of Art at Colby, by student organizations, and by learned societies. The Gannett lectures are devoted to general subjects. The Gabrielson lectures are concerned with national and international affairs. Topics relating philosophy to other areas of human concern are offered in the Matchette lectures.

The Winthrop H. Smith Visiting Scholars Program brings a distinguished speaker for two days to lecture, speak
in classes, and meet informally with students and faculty. The Spencer Lectures, established in 1973, are devoted to world unity. The Clara M. Southworth Lecture presents a prominent lecturer on a subject in "the broad field of environmental design, with emphasis on understanding some of the underlying philosophies of design that relate to the way in which men live." The Lovejoy Convocation annually honors a member of the newspaper profession.


Musical activities converge in the newly enlarged Bixler Art and Music Center, which contains rehearsal and practice rooms as well as the 400-seat Given Auditorium. Students are invited to participate (with or without academic credit) in the band, the Colby Community Symphony Orchestra, the glee club, and the Lorimer Chapel Choir, all under faculty direction. There are also informal student groups: the Colby Eight, the Colbyettes, the Baroque Society, and others. The Colby College Trio, consisting of faculty (Mary Hallman, violinist; Dorothy Reuman, cellist; and Lillian Garwood, pianist) presents chamber music on and off campus. A student chapter of the American Guild of Organists was formed in 1972.

Concerts by visiting artists are sponsored by the music department, by Student Government, and by the Colby Music Associates, a student-college-community group, which arranges the Colby Music Series and contributes to musical life on the campus. In 1972-73 the Colby Music Series included performances by the Vienna Renaissance Chamber Orchestra, Anthony Di Bonaventura (pianist), the Bach Aria Group, and the Composers String Quartet.

Among other concerts were an Evening of Chinese Opera,
the Mellon Organ Series (professional recitals on the Mellon Organ in Lorimer Chapel), an all-Mozart program by Jean and Kenneth Wentworth (piano duo), classical guitar music performed by Christopher Parkening, several concerts by college musical organizations, student recitals (including a program by Ida Dionne, senior soprano), and informal Friday Noonday Concerts.

The Bixler Art and Music Center is the focal point for the college’s art program. Continuous exhibitions featuring selections from the permanent collection, as well as original and travelling shows, are to be seen in the Jetté Gallery of the Colby College Art Museum. Special collections are the Harold T. Pulsifer Collection of Winslow Homer, the Bernat Collection of Oriental Ceramics and Bronzes, the Adelaide Pearson Collection, The American Heritage Collection, and the Helen Warren and Willard Howe Cummings Collection of American Art. The permanent collection features European and American painting, sculpture, and graphic art.

Among the 1972-73 exhibitions were: American Paintings from the Collection of Mrs. Norman B. Woolworth; Skowhegan School of Painting and Sculpture Competition for the William and Marguerite Zorach Maine Scholarships; Student Arts Festival; Student East Asian Exhibition; Graphics by Jack Levine and Ben Shahn; Works by Colby Senior Art Majors; Prints from the Rosenwald Collection; Student Arts Festival; and Paintings by Abbott Meader, Sculpture by Arthur Gibbons (faculty members).

The Friends of Art at Colby, organized in 1959, make substantial contributions to the overall art program throughout the year.

The Archives of Maine Art, located at the Bixler Center, is a repository of information and documents about artists in Maine from the eighteenth century to the present.

In addition to the studio courses in the regular curriculum, four workshops are maintained for extracurricular activities in film making, ceramics, typography, and weaving.

In September, 1973, a wing to the Bixler Center will be opened. Built in response to the growing interest in art
and music among students, alumni, and Friends of Art, it will contain painting and sculpture studios and greatly expanded gallery spaces for exhibition. For the first time, both the permanent collection and temporary exhibitions can be on display simultaneously. Expansion into the wing will make possible enlarged classrooms for art and music, and a new library to be shared by both departments.

**DRAMATICS**

Powder and Wig, the dramatic society, has a distinguished record of productions under the supervision of the director of dramatics, who is a member of the English faculty. Students act in plays, direct, build scenery, and supervise staging and lighting. Courses in drama are offered by the English, the modern languages, and the classics departments. The 1972-73 Powder and Wig productions included Tom Stoppard’s *Rosencrantz and Guildenstern Are Dead*, a group of eight one-act plays ranging in time and style from Strindberg’s *The Stronger* and Pirandello’s *The Vise* to Samuel Beckett’s mime play, *Act Without Words II*, and Claude van Itallie’s *America Hurrah!* Student-produced and directed productions included an original play, Sartre’s *No Exit*, and the musical, *Jacques Brel Is Alive*... From time to time, outstanding dramatic artists are brought to campus in one-person shows, and occasionally touring groups appear under college sponsorship.

**SPEECH AND DEBATE**

A tradition of public speaking has resulted in the endowment of prizes for several contests. These events, as well as debating, are supervised by the professor of speech in the department of English. Debating teams compete with other colleges, and Colby is represented at various intercollegiate speech contests.

**FILMS**

Film Direction, formed in 1962 by students and faculty, brings films of high quality in various film genres. In addition, there are regular movie showings by Sunday Cinema and films brought by departments. Colby is a member of the University Film Study Center, an organization
which coordinates and supports the study of film and television among fourteen New England colleges and universities.

**FRATERNITIES AND SORORITIES**

Colby recognizes the fraternity system as a cooperative feature of campus life. There are chapters of nine fraternities and three national sororities. Eight of the fraternities occupy separate houses on the campus, controlled by the administration and their prudential committees.

In order of founding, the fraternities are: Delta Kappa Epsilon, Zeta Psi, Delta Upsilon, Phi Delta Theta, Alpha Tau Omega, Lambda Chi Alpha, Kappa Delta Rho, Tau Delta Phi, and Pi Lambda Phi. The sororities are Sigma Kappa (founded at Colby), Chi Omega, and Alpha Delta Pi. The sororities maintain chapter rooms in Runnals Union.

The board of trustees requires that fraternities and sororities select members without regard to race, religion, or national origin. Hazing of any kind is prohibited.

**STUDENT ORGANIZATIONS**

More than seventy student organizations are active on campus. Some have religious affiliations, while others are academic. Among the latter are Sigma Delta Pi (Spanish honor society), Chi Epsilon Mu (chemistry), Delta Phi Alpha (German), Phi Sigma Iota (Romance languages), Pi Sigma Alpha (political science), and the Pre-Med Society. Student publications include the weekly newspaper, *The Echo*; the yearbook, *The Oracle*; the literary magazines, *Ergo* and *Pequod*; and the *Photography Journal*.

Service organizations are the Blue Key Society, Student Judiciary, and the Panhellenic Council.

Other groups include *AfroTC Cadet Corps, American Guild of Organists — Student Chapter, Archaeology Club, Baroque Society, Chess Club, Colby Domes (poetry), Colby Environmental Council, Colby Graphic Arts Workshop, Crafts Guild, Darkroom Associates, Film Direction, International Relations Club, Modern Dance Club, Outing Club, Radio Colby (WMHB — AM-FM), Student Organization*
for Black Unity, Yachting Club, Young Democrats, and Young Republicans.

There are other societies and clubs described under appropriate catalogue headings.

In addition, each class acts as an organization, with elected officials. Student Government plays an important and integral part in the life of the college.

**GENERAL REGULATIONS**

All students are responsible for knowledge of the regulations published in the *Student Handbook*, as well as the annual catalogue. The *Student Handbook* rules concern student residences, organizations, social activities, and intercollegiate athletics.

The college reserves the right to dismiss any student whose presence its officers believe to be detrimental to the general welfare of the college.

**ATTENDANCE**

Students are expected to attend class regularly and are held responsible for all work done in any class from which they are absent. Each student is, however, permitted at least two unexcused absences from each course in any semester. The maximum number allowed, if beyond two, is determined by individual instructors. Each instructor explains at the first meeting of every semester what constitutes unsatisfactory attendance in his class. Any student whose attendance the instructor judges to be unsatisfactory is warned by the dean of students. Flagrant repetitions may lead to dismissal from the course without credit. For abandoning a course without permission, the student shall receive an F.

Official excuses for absence are granted only by the deans of students, and only for: (1) critical emergencies, (2) athletic or other organizational trips, or (3) illness certified by the college physician or his authorized representative.

Medical excuses are 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) students treated by the medical staff at the dispensary, infirmary, or hospital, (3) students visited by the college
physician in dormitories or other places of residence. Medical excuses are not granted on a retroactive basis unless one of these classifications is satisfied.

All excuses from hour exams must come from the infirmary or, in cases of critical emergency, from the deans of students.

Absences caused by exclusion from classes because of nonpayment of college bills are treated in the same manner as other absences, except that the dean of students has the authority to issue an official excuse when convinced that no fault lies with the student.

No student on academic probation may be excused from any class because of extracurricular or athletic activities.

**BEHAVIOR**

The administrative officers of the college have a responsibility for maintaining and encouraging an atmosphere on campus consonant with the college's function as a community of students and teachers.

The trustees have delegated to various sectors of the college, including Student Government, extensive autonomy in the conduct of student affairs. Colby College assumes that those who accept admission to the student body are able and willing to conduct themselves with the maturity consistent with this responsibility. Each student retains the right to organize his own personal life and behavior within the standards agreed upon by the college community, so long as he does not interfere with the rights of others or with the educational process.

The college respects the laws and ordinances of the civil jurisdictions within which it lies. The college does not stand in loco parentis for its students, nor is the campus to be considered a sanctuary from civil law.

The college has always encouraged temperance in the use of alcoholic beverages. The laws of the State of Maine forbid possession of alcoholic beverages by any person under the age of eighteen. Where drinking leads to disruptive behavior, a student faces sanctions.

The college does not tolerate violations of federal or state drug laws. Such violations may result in dismissal from the college.
HEALTH POLICY  Physicians in the Colby College Health Services treat students on the same basis as community physicians treat the patients under their care.

The college feels that the best interests of students are served by having full medical counseling and treatment from physicians thoroughly informed about personal medical history.

The college respects the rights of these physicians to use their professional judgment in meeting the health needs of students today.

Upon recommendation of the college physician, the college reserves the right to require a student to withdraw for medical reasons. If, in the doctor's opinion, a student becomes unable to carry on normal student functions, or when his presence is or may become a hazard to himself or others, withdrawal will be required. Following any medical withdrawal, recommendations from an attending physician may be required before the student is readmitted to the college.

The officers, faculty, and medical staff of the college reserve the right to refuse to divulge information regarding a student's psychological or psychiatric condition, or matters of an intimate nature.

SPECIAL DIETS  Short-term arrangements are made for special diets at the request of the college physician. A scientifically developed vegetarian diet is available.

AUTOMOBILES  For a number of reasons, including the desire to preserve the natural quality of the campus environment, parking lots are limited in number and size. Having a car at Colby therefore has its inconveniences as well as conveniences.

Students, faculty, and staff are assigned lots according to their place of residence or work, and are discouraged from using their cars simply to move about campus.

Most scholarship students are not permitted to have cars on campus, and other students are urged to consider their needs carefully before bringing cars to the college.

Penalties for illegal parking or operation on campus are necessarily severe, and, after a small number of violations,
a student may lose his privilege to have a car on campus. The annual registration fee for a car is $10.

Details of rules relating to the use of motor vehicles may be found in the Student Handbook.

HOUSING AND STUDENT LIVING

Students are housed in twenty-six living units: eighteen college residences (some of them coeducational) and eight fraternity houses. All freshmen not living at home or with relatives are required to live in college housing. Individual dormitories have broad social autonomy, including control over such matters as parietal hours, quiet hours, and judicial systems. These regulations are reviewed by each residence unit in the fall. The college has charge of the maintenance and security of its buildings.

In special circumstances, some upperclass students are permitted to live off campus, with permission from their parents and the deans of students.
II

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Descriptions of major programs can be found as follows: (1) departmental, with the appropriate department; (2) those combining two departments, with the division of the first-named department; (3) interdivisional, in separate section on interdisciplinary programs, page 68.

Courses are offered within five divisions:

**DIVISION OF HUMANITIES**

Courses in the departments of Art; Classics, including classics in English translation, Greek, and Latin; English; Modern Foreign Languages, including French, German, Italian, Japanese, Portuguese, Russian, and Spanish; and Music. Additional courses in Comparative Literature.

**DIVISION OF SOCIAL SCIENCES**

Divisional courses in education and courses in the departments of Administrative Science; Economics; History and Government; Philosophy and Religion; Psychology; and Sociology.

**DIVISION OF NATURAL SCIENCES**

Courses in the departments of Biology; Chemistry; Geology; Mathematics; and Physics and Astronomy. Additional courses in Computer Science.

**DIVISION OF AEROSPACE STUDIES**

Courses in Aerospace Studies.

**DIVISION OF PHYSICAL EDUCATION AND ATHLETICS**

Courses in Physical Education.

In the departmental statements following, members of the active faculty for the academic year 1972-73 are listed.
Division of Humanities

Chairman, Professor Howard

Interdepartmental Majors

Interdepartmental majors are offered in classics-English and classics-philosophy. Attention is also called to interdisciplinary majors in American studies, ancient and medieval western studies, and East Asian studies.

Requirements for the major in classics-English

In English: six semester courses approved by the departments.

In classics: either three years of Latin above the level of 114 or three years of Greek.

Requirements for the major in classics-philosophy

In classics: either three years of Latin above the level of 114 or three years of Greek, subject to departmental approval.

In philosophy: Philosophy 123 or 211, 212; 331, 332; 491 or 492.

For each of the above majors, at least one upper-division January program is required to be taken in the major.

The point scale for retention of each of the above majors applies to all courses that may be credited toward the major. All requirements for the major must be met in conventionally graded courses.

ART

Chairman, Professor Carpenter

Professor Carpenter; Associate Professors W. Miller and Meader; Assistant Professor Matthews; Mrs. M. Miller and Mr. Gibbons.

Requirements for the major in art

Art 121, 122, 221 (or 211); at least three semester courses chosen from 252 (or 271), 311, 312, 313, 314, 318, 353; additional courses in art to bring the total to 29 semester hours; at least six semester hours chosen from other fields of study related to the individual student's interests within the major (e.g., history, philosophy, music, English). These courses should be selected with the advice and approval of the student's adviser in the sophomore or junior years.

The point scale for retention of the major applies to courses taken in the department. All requirements for the major must be met in conventionally graded courses. A departmental examination is to be passed in the senior year.

1On leave, 1972-73.
2Part-time.
CLASSICS

Chairman, ASSOCIATE PROFESSOR D. KOONCE
Professor Howard¹; Associate Professors D. Koonce and Westervelt; Assistant Professor Knapp².

Requirements for the major in classics
Three years of Latin above 114 and three years of Greek.

Requirements for the major in Greek
Four years of Greek and two semesters of ancient history. Two further semesters of ancient history may be substituted for one year of language.

Requirements for the major in Latin
Four years of Latin above 114 and two semesters of ancient history. Two further semesters of ancient history may be substituted for one year of language.

Attention is called to interdepartmental majors in classics-English and classics-philosophy, and to the interdisciplinary major in ancient and medieval western studies.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses in the department. All requirements for the major must be met in conventionally graded courses.

ENGLISH

Chairman, PROFESSOR BENBOW
Professors Strider, A. Comparetti³, Benbow, Cary⁴, Sutherland; Associate Professors Mackay, Suss, Witham, Curran, Brancaccio, and W. Wyman; Assistant Professors H. Koonce, Mizner, Sweney, E. Kenney, Bassett, Stratman, R. Gillespie, J. Wyman, S. Kenney³, E. Pestana³, Arnold, and Hall; Mr. Keeney.

Requirements for the major in literature in English
For the class of 1974: two semester courses from each of the following groups: (1) 251, 253, 255; (2) 257, 259, 271, 273. Also 317 or 321; 493 or 494; and four other courses in English numbered 300 or above, excluding courses noted below. English 111-114, 115, 116, 118, 131, 152, 211, 212, 231, 233, 391, 393, 396, 411 do not count for the fulfillment of major requirements.

In addition, each student must elect two semester courses in history, or in the history of philosophy, music, or art, or literature in a foreign language.

For the class of 1975 and after: two semester courses from each

¹Chairman, first semester; on leave, second semester.
²Second semester only.
³Part-time.
⁴On leave, 1972-73.
of the following groups: (1) 251, 253, 255; (2) 257, 259, 271, 275.
One course from each of the following groups: (1) 311, 312, 315, 319; (2) 331, 332, 333, 335; 317 or 321; 493 or 494; and two other courses numbered 300 or above, excluding courses noted below.

English 111-114, 115, 116, 118, 131, 152, 211, 212, 231, 233, 391, 393, 396, 411 do not count for the fulfillment of major requirements.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all English courses that may be used to fulfill major requirements. All requirements for the major must be met in conventionally graded courses.

Students planning for graduate study in English should elect at least one course in each period, English 321, 322, and have familiarity with American literature. Such students ought to be proficient in a foreign language; some universities still require two languages, and a few demand an additional classical language. Work in classical or foreign literature, history, philosophy, art, and music reinforces preparation in the major.

Attention is called to the interdepartmental major in classics English, and to interdisciplinary majors in American studies and ancient and medieval western studies.

MODERN FOREIGN LANGUAGES

Chairman, PROFESSOR HOLLAND

Professors Kellenberger, Bundy, and Holland; Associate Professors P. Bither, Biron, Schmidt, Kempers, Cauz, and H. Kueter; Assistant Professors F. Pérez, C. Ferguson, P. Doel, L. Ferguson, Filosof, Kerkham, and Mursin; Mr. Doan, Mr. Weiss, and Mrs. Hanna.

Achievement test: If a student offers a foreign language for entrance credit and wishes to continue it in college, he must either have taken the CEEB achievement test in that language or make arrangements for placement during freshman week.

Note: In addition to the following major programs, the department also offers instruction in the Italian, Japanese, Portuguese, and Russian languages and in Italian and Japanese literatures in translation. Work can be done in some of the less commonly taught languages through the critical language program.

Requirements for the major in French

Twenty-four semester hours in courses numbered 200 or higher, with the exception of 411 and 411-1.

1 On leave, second semester, 1972-73.
2 Second semester, 1972-73.
Requirements for the major in German
Twenty-four semester hours in courses numbered above 118 with the exception of 411 and 411-L.

Requirements for the major in Spanish
Eight semester courses in Spanish numbered above 115, with the exception of 411 and 411-L.

In French, German, and Spanish, a maximum of eight hours of pass/fail course work in courses numbered below 300 may be counted toward the major requirement.

The point scale for retention of any major within the department is based on courses in the major language only.

Teacher certification: Students desiring certification for teaching any of the above languages must take 411 in that language, and may in some cases be required to take other specified courses.

MUSIC

Chairman, ASSOCIATE PROFESSOR ARMSTRONG
Professors E. Comparetti and Ré; Associate Professor Armstrong; Assistant Professors Heinrich and D. Reuman1.

Requirements for the major in music
Music 123, 124, 163, 164, 263, 264, 411; at least nine additional hours in music history or theory courses numbered 200 or higher. Majors are urged to complete Music 123, 124, 163, 164 no later than the end of the sophomore year. Some skill at the keyboard is required of all majors; consult the department. Students wishing to pursue graduate study in musicology are advised that a reading knowledge of French and German is a general requirement for such study.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses in music history and theory. All requirements for the major must be met in conventionally graded courses.

Division of Social Sciences

Chairman, PROFESSOR WEISSBERG

INTERDEPARTMENTAL MAJORS
Interdepartmental majors are offered in administrative science-mathematics, economics-mathematics, philosophy-mathematics, and psychology-mathematics. Attention is called also to inter-

1Part-time.
disciplinary majors in American studies, ancient and medieval western studies, and East Asian studies.

Requirements for the major in administrative science-mathematics
In administrative science: 221, 222; 321, 322; 353; 413, 494; and Economics 141, 142.
In mathematics: at least 18 credit hours, including 113d; 212d; either 241, 242 or 381, 382; at least six hours must be at the 300 or 400 level.
Psychology 111d, 353, and Sociology 221, 222 are recommended but not required.

Requirements for the major in economics-mathematics
In economics: 141, 142; 233, 234; 393; 411; plus two additional semester courses.
In mathematics: 113d; 212d; 241 or 381; at least six hours elected from 311, 361, 362, 382, 421; additional hours to bring the mathematics total to a minimum of 18 credit hours.

Requirements for the major in philosophy-mathematics
In philosophy: 112 and either 123 or 211; 257; 331, 332; and one further course in the department.
In mathematics: at least 18 credit hours, including 113d, 212d, 361.

Requirements for the major in psychology-mathematics
In psychology: 111d, 271, 392, 472; one course selected from 213, 215, 272, 274, 331; one course selected from 234, 252, 261, 262, 353d.
In mathematics: 241, 242 or 381, 382; at least 12 additional credit hours, of which six must be at the 300 or 400 level.
For each of the above majors, at least one upper-division January program is required to be taken in the major.
The point scale for retention of each mathematics combination major applies to all courses offered toward the major. All requirements for the major must be met in conventionally graded courses.
Students should consult one of the advisers before planning to enter one of these majors and should register for the first course in mathematics in the freshman year.

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**Administrative Science**

*Acting Chairman, Associate Professor Knight*

*Professors Williams and W. Zukowski, Associate Professor Knight; Assistant Professor Landsman.*

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*On leave, 1972-73.*
Requirements for the major in administrative science
Administrative Science 221, 222, 321, 322, 413, 494; two semesters of mathematics; Economics 141, 142; Psychology 111d, 353 or Sociology 221e, 222 (although only one of the latter two course sequences is required, it is recommended that both be completed); and two semester courses selected from the following: Mathematics 241, 242, 243, 244; Economics 233, 234; or any additional courses in administrative science.

The point scale for retention of the major applies to administrative science courses and to Mathematics 241, 242, 243, 244 and Economics 233, 234, where these courses are used to satisfy major requirements. All requirements for the major must be met in conventionally graded courses.

Students planning graduate work in administration should consult the chairman of the department early in their college career.

Attention is called to the interdepartmental major in administrative science-mathematics.

ECONOMICS

Chairman, ASSOCIATE PROFESSOR HOGENDORN
Professor Pullen; Associate Professors Hogendon and Gemery;
Assistant Professors Cox, Dunlevy, and Hanna.

Requirements for the major in economics
Economics 141, 142, and eight (ten for class of 1976 and following classes) additional semester courses in economics, including Economics 234 and 411. Also required is a satisfactory percentile rating in the undergraduate program field test in economics, given in the spring of the senior year. Administrative Science 221, 222, or 321, 322, and Mathematics 241, 242, or 381, 382 may be substituted for two of the eight (four of the ten for class of 1976 and following classes) semester courses in advanced economics required for the major.

Students who wish to be recommended for graduate work in economics are urged to elect Economics 233, 234, 338, 393, 394, 411, and 494. A working knowledge of college mathematics through calculus and of elementary statistics is essential. If a student intends to be a candidate for the Ph.D. degree, he should also acquire a reading knowledge of French, German, and/or Russian.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies only to courses in economics, except that Administrative Science 221, 222, or 321, 322 and Mathematics 241, 242 or 381, 382 will be counted
if substituted for courses in advanced economics in fulfilling the major requirement. All requirements for the major must be met in conventionally graded courses.

Attention is called to the interdepartmental major in economics mathematics, and to the honors program (see description under Economics 491, 492).

Office of Education, Associate Professor Jacobson; Assistant Professor E. Pestana

Colby offers a three-year, interdepartmental program of courses and field experiences which meets the minimal requirements for secondary-school-teacher certification in the fields of English social studies, science, mathematics, Latin, American studies environmental studies, and modern foreign languages. Because requirements vary from state to state, however, each student must assume responsibility for obtaining the pertinent information which he needs. For those students who wish to defer their education courses, many graduate schools offer the Master of Arts in Teaching program which includes a paid teaching internship and regular courses, leading to not only the M.A.T. degree but a teaching certificate in the state.

Program of studies

Sophomore year: Education 213, 253, 254; Psychology 252. Junior year: Philosophy 333; Education 356, 353, 354. Senior year: Education 441, 442, 453, 454, and full-time teaching internship during January. Courses numbered 411 in the departments of English and modern foreign languages may be required of students who desire to teach those subjects.

Every prospective teacher must consult with Professor Jacobson during the freshman year. A brochure is available from the dean of admissions or from the Office of Education, Room 207F, Mill Library.

1Part-time.

2For those students who wish to meet elementary-school-teacher or special-education certification, the sophomore and junior courses can be taken at Colby, and the balance of the program (which commonly requires 30 hours in education courses) completed elsewhere during summers or after graduation.

3Most states require a concentration of 30 hours or more in a "major" (a commonly taught secondary-school subject) and 18 hours or more in education courses including student teaching. (N.B.) Some states including Maine and New Hampshire, also require a concentration of 18 hours or more in a "minor" (a commonly taught secondary-school subject).
HISTORY AND GOVERNMENT

Chairman, Professor Mavrinac

Professors Mavrinac, Gillum, Raymond, and Weissberg; Associate Professors Berschneider, Bridgman, and Foner; Assistant Professors Elison, Kany, Rosen, and Maisel; Messrs. Sacks and Farr.

The department offers majors both in history and in government. Attention is also called to interdisciplinary majors in American studies, ancient and medieval western studies, and East Asian studies.

Requirements for the major in history

For members of the class of 1976 and subsequent classes, twelve semester courses in history, of which up to two may be in ancient history. Majors in history planning to do professional work in history are encouraged to enroll in a senior seminar, but this is not required. A comprehensive examination is to be passed in the senior year, given on a major field in which the student has taken at least four semester-courses, at least two of which are at the 300 or 400 level, and a minor field of two different subjects, at least one of which is at the 300 or 400 level. 100-level courses may not be offered for the comprehensive examination; a two-semester sequence may be offered only in its entirety. The fields of history from which a major or minor field may be chosen are American, Afro-American, English, European, and East Asian.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses in history and government. With the exception of History 131, 132, all requirements for the major must be met in conventionally graded courses.

Requirements for the major in government

Ten semester courses in government. Students are expected to take at least one semester course in government numbered in the 400's. A comprehensive examination is to be passed in the senior year.

The point scale for retention of the major applies to all courses in government. All requirements for the major must be met in conventionally graded courses.

PHILOSOPHY AND RELIGION

Chairman, Professor Parker

Professors R. Reuman, Todrank, and Parker; Associate Professor

1On leave, first semester.
2Acting Chairman of History, first semester.
3Acting Chairman of Government, first semester.
4Part-time lecturer.
Hudson; Assistant Professors Thorwaldsen and McArthur; Mr. Longstaff.

Requirements for the major in philosophy
Philosophy 112, 211, 331, 332, 353, and twelve additional hours in philosophy, only six of which may be in 100-level courses.

Requirements for the major in philosophy and religion
At least one upper-division January program is required to be taken in the major.

The point scale for retention of each of the above majors applies to all courses that count toward the major. All requirements for the major must be met in conventionally graded courses.

Attention is called to interdepartmental majors in philosophy, mathematics, and classics-philosophy (see list of requirements under Division of Humanities), and to the interdisciplinary major in ancient and medieval western studies.

PSYCHOLOGY

Chairman, PROFESSOR GILLESPIE
Professors Johnson, J. Gillespie, and Jenson; Associate Professor P. Perez and Zohner; Assistant Professors DeSisto and Lester.

Requirements for the major in psychology
Biology 111, 114; Psychology 111d, 114, 271, 392, 472; two courses selected from 213, 215, 272, 274, 331; two courses selected from 234, 252, 261, 262, 353d.

The point scale for retention of the major applies to all courses offered toward the major, as prescribed above. All requirements for the major must be met in conventionally graded courses.

Attention is called to the interdepartmental major in psychology-mathematics.

SOCIOLOGY

Chairman, ASSOCIATE PROFESSOR GEIB
Professor Birge; Associate Professors Geib and Rosenthal; Assistant Professors R. Doel and Morrione; Mr. Kingdon.

Requirements for the major in sociology
Sociology 221, 222 and eight additional courses in sociology, including Sociology 411, 412; any combination of four courses selected from history, government, psychology, and economics. A written comprehensive examination is to be passed in the senior year.

At least one upper-division January program is required to be taken in the major.

1On leave, first semester, 1972-73.
2Acting chairman, first semester, 1972-73.
The point scale for retention of the major applies to all courses in sociology. All requirements for the major must be met in conventionally graded courses.

Division of Natural Sciences

Chairman, Professor Bancroft

INTERDEPARTMENTAL MAJORS

Interdepartmental majors are offered in geology-biology, geology-chemistry, and physics-mathematics. Attention is also called to the interdisciplinary major in environmental studies.

Requirements for the major in geology-biology

In geology: 121, 122 or 141, 142 or 161, 162; 212, 281; two additional semester courses numbered 200 or higher.

In biology: 111, 114, 271; twelve additional credit hours. Substitutions may be made for 111 and 271 with departmental approval.

Other courses: Chemistry 141, 142; Mathematics 121d and one additional mathematics course numbered above 121. Physics 141, 142 is recommended.

A comprehensive examination is to be passed in the senior year in either geology or biology.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses in geology and biology.

Requirements for the major in geology-chemistry

In geology: beginning in the sophomore year 241, 242; 281, 282; 321, 322.

In chemistry: 141e, 142; 331, 332; 341, 342. Physics 121, 122 and Mathematics 121d, 122d.

Students should consult one of the major advisers regarding election of languages and other required courses in the freshman and sophomore years.

The point scale for retention of the major applies to all courses in geology and chemistry.

Requirements for the major in physics-mathematics

In physics: 121, 122 plus four additional semester courses as approved. Most physics courses have prerequisites or corequisites in mathematics.

In mathematics: 113d, 121d, 122d, 212d, 311, and one additional semester course as approved.

Note: If advanced placement or credit is given in either
department, additional courses must be selected from that depart-
ment to a total of 18 credit hours or more.

The point scale for retention of the major applies to all course:
in physics and mathematics.

Colby College has access to the PDP-10 computer at Bowdoin
College through remote terminals in the Keyes Science Building
and Lovejoy Building. Courses are given each semester in Intro-
duction to Computer Science. Orientation programs in the use
of the terminals and the computer language BASIC are also given
for any students who are interested. Every student who elects an
elementary mathematics course will receive instruction in the use
of the terminals.

**BIOLOGY**

*Chairman, Professor Scott*

Professors Scott and Terry; Associate Professor Easton; Assistant
Professors Fowles, Gilbert, and Champlin.

**Requirements for the major in biology**

Two semesters of mathematics, including 121d; Chemistry 141,
142; 32 credit hours in biology including 111, 114, 271, 272; one
additional year of science and participation in the biology semi-
nar in the senior year. Chemistry 447 or 467 may be credited
towards the biology major. Students who enter with Mathematics
121d or equivalent are required to take one more semester of
mathematics. The comprehensive examination in the major is
administered about the middle of the senior year.

The point scale for retention of the major applies to Chemistry
141, 142; the first two semester courses in college mathematics;
and all courses in biology. All requirements for the major must
be met in conventionally graded courses.

Biology 111, 114, 271, and 272 constitute a core program and
are normally prerequisite to all other biology courses. With
special permission of the department a student may arrange to
take certain higher numbered courses with Biology 271, 272.
The inclusion of geology is advised for majors preparing for
Teaching or for work in the field aspects of biology. Students
preparing for graduate study in the biological sciences, including
those planning to enter dental, medical, or veterinary schools,
must take Mathematics 122d, Physics 121, 122, and organic
chemistry. For most of these, at least one further course in
mathematics should be elected, with the advice of the major
department. Requirements for the Ph.D. degree in areas of
biological science usually include a reading knowledge of two
modern foreign languages.
Students are encouraged to take courses at approved summer laboratories, and such courses may be approved for credit toward the major requirement.

Attention is called to the interdepartmental major in geology-biology, and the interdisciplinary major in environmental studies.

**CHEMISTRY**

Chairman, Professor Reid
Professors Reid and Machemer; Associate Professor Ray; Assistant Professors Maier and W. Smith.

The department offers two major programs for the liberal arts student: the basic major and the ACS major (accredited by the American Chemical Society). Both majors involve the same core curriculum, but the basic allows more opportunity for study outside the chemistry department. The ACS major is more sharply focused toward further work in university graduate schools; a student graduating in this program receives official certification from the American Chemical Society.

Requirements for the basic major in chemistry
Chemistry 141e, 142; 241e, 242; 331; 341, 342; Mathematics 121d, 122d; Physics 121, 122. Other courses or substitutions should be selected in consultation with the chairman of the chemistry department.

Requirements for the ACS accredited major in chemistry
All courses required for the basic major, plus Chemistry 332; 411; 431. Two other semester courses may be taken as electives.

Both upper-division January programs should be taken in the major.

The point scale for retention of the major applies to all chemistry courses. All prospective chemistry majors should meet with the chairman as early as possible during the freshman year in order to plan their full chemistry programs. With the exception of Chemistry 432 and 434, all requirements for the major must be met in conventionally graded courses.

It should be noted that recently the ACS accredited program has been modified by the American Chemical Society, with the elimination of any required modern foreign language.

A sound program in the basic major meets most of the objectives of the ACS accredited one and will prepare a student to enter many professional or graduate schools, e.g., dental, medical, or veterinary schools (for these, certain biology courses should be included in the students' programs); law; graduate schools of biochemistry, chemistry, environmental science, oceanography, and others. Students who plan careers in high school science teaching should add courses in education.
Completion of either chemistry major, with biochemistry, provides an excellent basis for graduate work in biochemistry, the medical sciences, and pharmacology.

At the end of their junior year, chemistry majors are encouraged to obtain summer employment in industrial or professional laboratories.

Seminars for the chemistry department are held on Tuesday evenings. Important topics are developed and discussed; chemistry majors are expected to attend, and seniors are required to participate.

Attention is called to the interdepartmental geology-chemistry major.

Chairman, Professor Koons
Professor Koons; Assistant Professors Coleman, H. Pestana, and Allen.

Requirements for the major in geology
Geology 121, 122, or 141, 142 (the preferred sequence), or 161, 162; 212; 214; 221 or 271; 242; 261; 281; 352; one year of college mathematics; and Chemistry 141, 142. Geology 321, 322 may be substituted for 214, and are recommended for professional preparation, as is one semester of Geology 491, 492.

At least one upper-division January program is required in the major. A comprehensive examination is to be passed in the senior year.

Students planning to teach in the secondary schools may select the earth science option; the requirements are: Geology 141, 142; 212; 214; 221, 222; 261; 281; 292; Chemistry 141. A comprehensive examination is to be passed in the senior year.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses taken in the department. All requirements for the major must be met in conventionally graded courses.

Students planning professional careers in geology should remember that graduate schools will require for admission a summer field course or its equivalent, at least one year in physics and biology, and, frequently, additional mathematics; and that candidates for the doctorate must demonstrate a reading knowledge of two foreign languages.

Attention is also called to interdepartmental majors in geology-biology and geology-chemistry, and the interdisciplinary major in environmental studies.
MATHMATICS

*Acting Chairman, PROFESSOR COMBELLACK*¹

Professors Combellack and L. Zukowski²; Assistant Professors Fuglister, Hayslett, Knox, and Small.

**Requirements for the major in mathematics**

Mathematics 113d, 121d, 122d, 212d, 361, 362, 421, 431 plus twelve credit hours selected from the following: 311, 314, 316, 332, 352, 381, 382, 422, 432.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses taken in the department. All requirements for the major must be met in conventionally graded courses.

A brief introduction to the use of computer terminals will be included in each of the mathematics courses numbered 113d, 121d, 122d, 212d. For students electing more than one of the above courses the work will be graduated accordingly.

Attention is called to the interdepartmental majors in administrative science-mathematics, economics-mathematics, philosophy-mathematics, physics-mathematics, and psychology-mathematics.

¹¹972-73.

²On leave, 1972-73.

PHYSICS

*Chairman, PROFESSOR BANCROFT*

Professor Bancroft; Associate Professor Dudley; Assistant Professor Metz.

The department seeks to train students to think analytically in terms of the fundamental principles of physics. Subject matter in courses is selected to illustrate basic laws with wide applicability. The course offerings provide excellent background for graduate study in physics, astronomy, or the other natural sciences.

**Requirements for the major in physics**

Twenty-four credit hours in physics, including 121, 122, 211, 311, 332; Mathematics 121d, 122d, 212d; six additional credit hours in natural science.

Students preparing for graduate work in physics, a related science, or engineering should plan to elect eight additional hours of physics, including Physics 441, and six additional hours of mathematics, including Mathematics 311d. Mathematics 121d, 122d should be taken during the freshman year. It is strongly recommended that Chemistry 141, 142 be taken during the sophomore year, and that the college language requirement be fulfilled in French, German, or Russian.
Students seeking advanced standing in physics should consult the chairman of the department before electing courses.

The point scale for retention of the major applies to all courses taken in the Division of Natural Sciences. All requirements for the major must be met in conventionally graded courses.

Attention is called to the interdepartmental major in physics-mathematics.

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**Interdisciplinary Studies**

Interdisciplinary majors are offered in American studies, ancient and medieval western studies, East Asian studies, and environmental studies. In addition, courses are offered in Black studies and coordinated studies. Each is administered by an advisory committee and utilizes courses in several departments of the college.

**American Studies**

*Director, Professor Bassett*

*Advisory Committee: Professors Bassett (English), Brancaccio (English), Bridgman (History and Government), Foner (History and Government), Geib (Sociology), Gemery (Economics), Longstaff (Philosophy and Religion), Maisel (History and Government), W. Miller (Art), and six students majoring in American studies elected by fellow majors.*

The American studies program, revised in 1971, replaces the former American civilization major. A student majoring in American studies at Colby is taught—in single courses and through a combination of courses—the subject matter of America’s past and present, with special effort devoted to the integration and knowledge of more than one academic discipline. Built around a core of courses in American history and American literature, the American studies program strives for genuinely interdisciplinary insights into the complexities of American thought and culture.

*Requirements for the major in American studies*

Five courses, to include a senior seminar, in an area of concentration in either American literature or American history. These courses must demonstrate adequate chronological breadth, and include offerings at the 200, 300, and 400 levels.

Three courses in the area, American literature or history, not chosen as the area of concentration.

One senior seminar or special topics course with an American emphasis in a department other than the area of concentration.
Additional courses with an American emphasis to bring the total to at least fourteen courses. These may be selected from a list available from the major adviser, and include offerings in art, biology, economics, education, geology, government, music, philosophy, psychology, religion, and sociology.

No courses numbered below 200 may be used to satisfy major requirements.

An oral comprehensive examination to be passed in the senior year, with examiners from the disciplines of American literature, American history, and a third academic specialty.

At least one upper-division January program is required to be taken in the major.

The point scale for retention of the major applies to all courses offered toward the major. All requirements for the major must be met in conventionally graded courses.

Courses approved for the major
ART: 271 American Art; 491, 492 Special Problems.
BIOLOGY: 352 Ecological Theory.
EDUCATION: 336 History and Government of Education.
ENGLISH: 271d Introduction to American Literature; 335 Early American Authors; †[336] American Realism and Naturalism I; 337d Introduction to American Studies: English; 338 American Realism and Naturalism II; 352 Contemporary American Fiction; 353 Twentieth-Century Poetry; 375d2 Black American Literature; 423, 424 Major American Romantics; 491, 492 Topics in Literature; 493, 494 Seminars in English and American Literature.
GEOLOGY: †[221, 222] Map Interpretation and Geomorphology of the United States.

MUSIC: 491, 492 Special Topics.

PHILOSOPHY: *352 American Philosophy; 353 Contemporary Analytic Philosophy; 491, 492 Special Topics.

PSYCHOLOGY: 353 Social Psychology; 491, 492 Special Topics.

RELIGION: [217] Religion in America; 281 Cultural Euthenics; *316 Contemporary Western Theology; 491, 492 Special Topics.


ANCIENT AND MEDIEVAL WESTERN STUDIES

Director, MRS. D. KOONCE

Advisory Committee: Professors Berschneider (History and Government), Carpenter (Art), Gillum (History and Government), Heinrich (Music), Howard (Classics), Kellenberger (Modern Languages), D. Koonce (Classics), MacKay (English), Miller (Art), Parker (Philosophy and Religion), Thorwaldsen (Philosophy and Religion), Westervelt (Classics).

The major allows for concentration in either ancient or medieval studies. While some experience is required in both areas, ancient study may serve as background for a medieval concentration; conversely, medieval study may serve as an extension of primarily ancient interests. The chief objective of the major is to serve students with a general interest in cultural history. For those who wish to continue in academic life, however, the major is useful in comprising an approved minor for secondary school teaching, and offering acceptable training for graduate programs in ancient history and medieval studies. An advisory committee to assist with problems in developing individual programs of study consists of faculty engaged in teaching the major.

Requirements for the major in ancient and medieval western studies

Thirty-six hours of study with a minimum of twelve hours in the area of lesser concentration, including nine hours of history, nine
hours of literature, three hours of philosophy, six hours of art and/or music, six further hours in any of the above areas, which may include special topics courses, three hours of coordinating seminars associated with paired courses.

At least one upper-division January program is required to be taken in the major. A comprehensive paper or examination to be passed in the senior year.

The point scale for retention of the major applies to all courses offered toward the major. All requirements for the major must be met in conventionally graded courses.

Courses approved for the major

ANCIENT HISTORY: *252d1 Bronze Age Greece; *254 Topics in Roman History; 352 Athens in the Fifth Century; [353] Greece in the Fourth Century.

ART: 121 Introduction to Art through the Middle Ages; 311 The Art of Ancient Greece and Rome; *313 Art of the Renaissance in Northern Europe.

CLASSICS: 232 Greek Drama; 234d1 Early Greek Poetry.

ENGLISH: 251d Introduction to Old and Middle English Literature; 311d2 Studies in Medieval Literature.


ITALIAN: [211] Dante.


PHILOSOPHY: 331 History of Ancient Philosophy; *373 History of Medieval Philosophy.

BLACK STUDIES

Director, Professor Brancaccio

Advisory Committee: Professors Brancaccio (English), Foner (History and Government), Gemery (Economics), Johnson (Psychology), W. Wyman (English).

Activities in the area of Black studies began in 1969 with the formation of a Black Studies Subcommittee of the Educational Policy Committee. The work of this committee has involved the encouragement of curriculum development, scholarly exchanges through visiting lecturers, faculty attendance at professional meetings such as the one held annually in Atlanta at the Center for Afro-American Studies, exchanges of students, and faculty visits to other colleges to keep abreast of developing programs. The committee also encourages the development of January program topics in this area. The history courses listed below may be offered as a field of concentration within the history major.
Courses offered in Black studies include:

**ENGLISH:** 375d2 Black American Literature.

**HISTORY:** 297 Black History I, from the Afro-American Background to the Civil War; 298 Black History II, from the Civil War to the End of World War I; 399 Black History III, from World War I to the Present; 432 Seminar in Black History.

**MUSIC:** *152 Topics in Afro-American Music.

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**CENTER FOR COORDINATED STUDIES**

*Director, Professor H. Koonce*

_Faculty Chairman, Professor Westervelt_

**Faculty Associates:** Professors Bassett (English), Easton (Biology), Gilbert (Biology), Johnson (Psychology), Kenney (English), D. Koonce (Classics).

**Faculty Affiliates:** Professors Bundy (Modern Languages), Champlin (Biology), DeSisto (Psychology), Elison (History and Government), Geib (Sociology), Gilbert (Biology), Hudson (Philosophy and Religion), Kerkham (Modern Languages), MacKay (English), Sacks (History and Government).

The concept and conduct of the Center for Coordinated Studies, which works in close liaison with other interdisciplinary programs, is as described on page 20 of this catalogue. Its offerings, reflecting the needs and experience of the participants, are subject to frequent modification. A separate brochure, outlining the center's function in greater detail and describing current programs, is available on request.

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**EAST ASIAN STUDIES**

*Director, Professor Elison*

**Advisory Committee:** Professors Carpenter (Art), Elison (History and Government), Gillum (History and Government), Kerkham (Modern Languages), Mavrina (History and Government), Hudson (Philosophy and Religion), Rosen (History and Government), Thorwaldsen (Philosophy and Religion).

The program of East Asian studies contributes a new dimension to the traditional liberal arts curriculum by exposing the student to rich cultures beyond the scope of western civilization. The academic major in East Asian studies is in addition meant to be preparation for further specialized studies in graduate school. Study abroad during the junior year is encouraged.

**Requirements for the major in East Asian studies**

A minimum of two years of training in an East Asian language, and 21 additional credit hours obtained from courses in East Asian studies, selected with the approval of the program director.

The point scale for retention of the major applies to all courses
offered toward the major. All requirements for the major must be met in conventionally graded courses.

Courses approved for the major

EAST ASIAN STUDIES: 491, 492 Special Topics.
RELIGION: 321, 322 East Asian and Indian Religions; †[391, 392] Religion Seminars (East Asian and Indian Texts in Translation).

ENVIRONMENTAL STUDIES

Director, Professor Gilbert

STEERING COMMITTEE: Professors Bancroft (Physics); Combellack (Mathematics); Gilbert (Biology); Kany (Assistant Dean of Faculty), Chairman; Koons (Geology); Reid (Chemistry); Scott (Biology).

ADVISORY COMMITTEE: Professors R. Doel (Sociology); Gilbert (Biology), Chairman; Koons (Geology); Weissberg (Government); two students representing the Colby Environmental Council; Mr. F. Keene (North Kennebec Regional Planning Commission); Mrs. R. Strider (Waterville Conservation Commission); Mr. M. Wiebe (Maine Department of Parks and Recreation).

A multidisciplinary major in environmental studies, based primarily on the natural sciences, was instituted in March 1971. Academic aims are to provide an understanding of ecosystems, an appreciation for contributions which different disciplines make to the field, an awareness about the roles of institutions that affect the environment, and a working experience with some aspect of the local, regional, or state environment.

Requirements for the major in environmental studies

In biology: one semester course selected from 117, 135, or 271; one semester course selected from 111, 118, or 136; and 352.
In chemistry: two semester courses selected from 111, 112, or 121, 122, or 141, 142.

In geology: two semester courses selected from 121, 122, or 141, 142, or 161, 162; one semester course selected from 112, 114, or 292, and 491, 492.

In mathematics: 241 or 381.

In physics: Physics 121 or Astronomy 112 (for the class of 1977 and after).

From the science areas, a student is urged to take at least two courses with laboratory.

An additional ten credit hours from the approved list of courses in biology, chemistry, computer science, geology, mathematics, and physics (for the class of 1977 and after, this requirement will be for an additional seven credit hours).

Nine credit hours selected from the approved list of courses in administrative science, economics, government, psychology, and sociology.

At least one January program in environmental studies.

The point scale for retention of the major applies to all courses offered toward the major. All requirements for the major must be met in conventionally graded courses.

Courses approved for the major

ASTRONOMY: 131 Descriptive Astronomy.


CHEMISTRY: 111 Studies in Environmental Biochemistry; 112 Topics in Chemistry; 121E, 122 General Chemistry; 141E, 142 General Chemistry and Elementary Analysis.

GEOLOGY: 112 Oceanography I; 114 Oceanography II (with laboratory); 121E, 122 Introduction to Geological Science I; 141E, 142 Introduction to Geological Science II (with laboratory); 161E, 162 Problems in Geology; *292 Meteorology; 491, 492 Special Problems in Geology.


PHYSICS: 121 General Physics.

Approved courses from the Division of Natural Sciences include those listed above and the following

BIOLOGY: *311 Field and Systematic Botany; †[313] Invertebrate Zoology; †[319] Biology of the Lower Plants; *333 Chordate
Evolution; *354 Marine Ecology; †[356] Inland Ecology; 358 Ecology Field Study.

CHEMISTRY: 241e, 242 Organic Chemistry.

COMPUTER SCIENCE: [112] Introduction to the Computer.

GEOLGY: †[221, 222] Map Interpretation and Geomorphology of the United States.


PHYSICS: 122 General Physics.

Approved courses from the Division of Social Sciences

ADMINISTRATIVE SCIENCE: 354 Law; 413 Organizational Behavior.


GOVERNMENT: 314 American Constitutional Law; 338 International Law; 393 State and Local Government.


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Division of Aerospace Studies

Chairman, PROFESSOR FINNEGAN
Professor Finnegan; Captains Lester and Mans.

Eligible students may qualify for a commission as an Air Force officer by completing the Senior Air Force ROTC program. Either a two-year or a four-year program may be selected.

The traditional four-year program requires the student to pursue the General Military Course of Aerospace Studies during his freshman and sophomore years. Upon completion of the first two years of Air Force ROTC, qualified students enroll in the Professional Officer Course for their junior and senior years. A four-week field training course is held during one summer at an Air Force base.

Students may qualify for the two-year Professional Officer Course by completing the Officer Qualifying Test and attending a six-week summer field training course at an Air Force base in the summer between the sophomore and junior years. Students apply for this two-year program during their sophomore year. A limited number of scholarships are available for selected freshmen and sophomores meeting eligibility requirements.
Division of Physical Education and Athletics

Chairman, Associate Professor Winkin
Associate Professors Winkin and M. Bither; Assistant Professors McGee, Covell, Scholz, Nelson, Hodsdon, Hodges, and Schulten; Miss Mandeville and Messrs. Whitmore and Mukai.

The Department of Physical Education and Athletics offers required physical education classes, intramural sports, intercollegiate athletics (varsity and junior varsity), and informal recreational activities.

PHYSICAL EDUCATION

Coordinator, Mrs. M. Bither
Physical Education 1, 2: one year of physical education is required of all Colby students for graduation. Waivers are available for skilled students who do well in the screening tests in swimming, leisure-time sports, fitness, and posture. An additional graduation requirement is to demonstrate ability to bob, float, and keep oneself above water.

A program of instruction in a wide variety of activities is offered on a coeducational basis. Activities presently in the program are aquatics: swimming, life saving, water-safety instructors’ course, synchronized swimming, recreational swimming; leisure-time sports: tennis, golf, squash, handball, skating, skiing, fencing, badminton, hiking and outdoor education, riding, bowling; dance: modern, movement class, folk, ballet; team sports: touch football, basketball, volleyball, softball, field hockey, lacrosse; other activities: fitness, judo, gymnastics, body mechanics, Pound Away Club.

INTRAMURALS

Coordinator, Mr. Covell
Programs in intramurals are on a coeducational basis; each student is free to engage in the activities of his choice. Competition is organized in touch football, basketball, hockey, volleyball, skiing, track, squash, swimming, softball, tennis, cross-country, golf, basketball free-throw, and bicycle race. As new interests develop, the program will be increased.

INTERCOLLEGIATE ATHLETICS

Athletics for men include varsity teams in indoor and outdoor track, cross-country, golf, lacrosse, tennis, skiing, squash, and
swimming, and both varsity and junior varsity teams in football, basketball, hockey, and baseball. Teams for women are in field hockey, tennis, gymnastics, fencing, and women's ice hockey (club). Faculty members in the department of physical education and athletics are team coaches.

The rules that govern intercollegiate sports are those adopted by the athletic conferences in which Colby holds membership. Colby is a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference, the New England Small College Athletic Conference, the Maine Intercollegiate Athletic Association, the Association for Intercollegiate Athletics for Women, and the Eastern Association for Intercollegiate Athletics for Women.

Division of Special Programs

Recognizing the fact that diverse interests exist in every community, and that even the most technically trained individual has a need to continue his education, Colby College maintains a division of special programs with a full-time director.

During the academic year, this division arranges such annual conferences as the Colby Institute for Management and the Sloan Institute on Hospital and Health Administration. Each summer, around 2,500 individuals from throughout the nation and other countries are on campus for courses and seminars ranging from Great Books to Occupational Hearing Loss. High-school teachers of science and mathematics attend the six-week Summer Science Institute, sponsored by Colby and the National Science Foundation.

Continuing education programs in medicine and allied health fields constitute a significant portion of summer activities. Doctors enroll in the Lancaster Course in Ophthalmology, Seminar in Nuclear Medicine, Neurosurgical Techniques, and Otolaryngology. Colby's medical programs are fully accredited by the American Medical Association's Council on Medical Education. Other summer programs include such topics as Estate Planning and Tax Institute, Church Music, American Guild of Organists, Orff Schulwerk, Noise Control Engineering, and Industrial Hearing Testing.

Adult courses and Colby telecourses, although not offered every year, are maintained in special programs, as is the use of Colby facilities by outside groups.
The division is also responsible for the administration of the January Program of Independent Study.

Information may be obtained by writing to Robert H. Kany, Director.
Courses of Study

Each course is known by a title and also, for convenience of reference and ease in record-keeping, by subject and number: American Art is also Art 271.

The first digit indicates the class or classes eligible to take the course:
100 — open to freshmen,
200 — ordinarily open to sophomores, and classes above,
300 — ordinarily open only to juniors and seniors,
400 — ordinarily restricted to seniors.

The second digit may be:
zero — either semester of a year-course, with credit given only on completion of the two semesters;
an even number — either member of a pair of closely related semester courses (special permission of the department is required to take the second without the first); or an odd number — an independent semester course.

The last digit shows the semester in which the course is offered. Courses ending in odd numbers are first semester (fall) courses while those ending in even numbers are given in the second semester.

Thus Art 271 may be elected no earlier than the sophomore year (as it is a "200 course"); it is an independent one-semester course (shown by the 7, an odd number); and it is given in the first semester (since the final digit is also odd).

The letter d after a course number indicates that the course is repeated each semester. The d followed by the number 1 or 2 is used to designate a course being given out of its usual semester. Geology 313d2 would be an independent semester course for juniors or seniors ordinarily given in the fall but this year being presented in the spring instead.

The letter e after a number indicates an E course, the first of two closely related semester courses. When so designated, a mark of E may be given for the first. E designates provisional failure, but the deficiency may be made up by satisfactory completion of the sequentially related course in the immediately following semester. When thus made up, the first semester mark is changed to D. An E course finally carries a separate permanent mark for each semester.

The letter L following a course number indicates that it represents a laboratory or other auxiliary session that may be elected, for added credits, concurrently with the course of the same number.

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

[] Brackets indicate that the course will not be offered in 1973-74.

* An asterisk indicates that the course will probably not be offered in 1974-75.

† A dagger indicates that the course will probably be offered in 1974-75.

A schedule of hours and rooms for courses listed in this catalogue is available at the registrar's office at registration periods. Courses listed are subject to withdrawal at the discretion of the college administration.

*Credit hours shown are per semester unless otherwise noted.*
## Administrative Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>321, 322</td>
<td>Principles of Accounting</td>
<td>The underlying theory and analytical aspects of accounting as a control device and tool of management, including an examination of the role of accounting in modern society — its relationship to law, economics, and social policy. <em>Three credit hours.</em></td>
<td>Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222.</td>
<td>Three</td>
</tr>
<tr>
<td>321, 322</td>
<td>Finance</td>
<td>An analytically structured approach to decision-making in the financial area. Money and capital markets are considered. <strong>Prerequisite:</strong> Administrative Science 221, 222 and Economics 241, 242 or special permission. <em>Three credit hours.</em></td>
<td>Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222.</td>
<td>Three</td>
</tr>
<tr>
<td>341, 342</td>
<td>Advanced Accounting</td>
<td>Advanced study of accounting theory with stress on analytical, interpretative, and managerial aspects of the subject. Concepts relating to major current accounting questions are examined. <strong>Prerequisite:</strong> Administrative Science 221, 222. <em>Three credit hours.</em></td>
<td>Administrative Science 221, 222 or Economics 241, 242. <strong>Prerequisite:</strong> Administrative Science 221, 222 or Economics 241, 242.</td>
<td>Three</td>
</tr>
<tr>
<td>343, 344</td>
<td>Marketing</td>
<td>Development of the broad concept of marketing as an all-pervasive organizational and societal function. The analytical and decision-making processes involved are studied through an introduction to quantitative techniques and the application of the social and behavioral sciences. <strong>Prerequisite:</strong> Administrative Science 221, 222 or Economics 241, 242. <em>Three credit hours.</em></td>
<td>Administrative Science 221, 222 or Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222 or Economics 241, 242.</td>
<td>Three</td>
</tr>
<tr>
<td>353</td>
<td>Managerial Economics</td>
<td>The decision-making process examined in an economic context. <strong>Prerequisite:</strong> Administrative Science 221, 222 and Economics 241, 242 or special permission. <em>Three credit hours.</em></td>
<td>Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222.</td>
<td>Three</td>
</tr>
<tr>
<td>354</td>
<td>Law</td>
<td>The processes of law which underlie personal and institutional relationships. <em>Four credit hours.</em></td>
<td>Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222.</td>
<td>Four</td>
</tr>
<tr>
<td>311</td>
<td>The Consumer in Society</td>
<td>Consumer behavior is examined within the framework of the financial and social institutions which comprise our complex society. Emphasis is given to those aspects related to financial goals, alternatives, and decisions. <em>Three credit hours.</em></td>
<td>Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222.</td>
<td>Three</td>
</tr>
<tr>
<td>412</td>
<td>Investments</td>
<td>The principles of investment, with special attention to investment analysis, the investment process, and criteria for investment decisions.</td>
<td>Administrative Science 221, 222 and Economics 241, 242 or special permission. <strong>Prerequisite:</strong> Administrative Science 221, 222.</td>
<td>Three</td>
</tr>
</tbody>
</table>
413  
**Organizational Behavior**  
Mr. Landsman

This course utilizes an historical and sociological orientation as it examines the existing empirical data and theoretical concepts dealing with the behavior of people in business and other organizations.

**Prerequisite:** Administrative Science 221, 222, 321, 322. Three credit hours.

491, 492  
**Special Topics**  
Staff

Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work.

**Prerequisite:** Permission of the instructor. One to four credit hours.

494  
**Senior Seminar**  
Mr. Zukowski and Mr. Landsman

Topics concerned with the broad administrative spectrum. Choice depends upon the interest and needs of the particular class.

**Prerequisite:** Administrative Science 221, 222, 321, 322, 413 and two additional semester courses in Administrative Science or from the approved group (see major requirements). Four credit hours.

### Aerospace Studies

133d  
**World Military Systems**  
Mr. Lester

A study and analysis of the purposes and causes of war and the factors and instruments of national power. The military instrument of the United States is examined in detail, including a broad view of the events and elements in the history of air power, the Department of Defense, and the three military services. The study concludes with an investigation of the sources of conflict in the world today and an assessment of the progress and prospect for peace. May not be included in basic 105 graded hours by students with 120-hour graduation requirement. Three credit hours.

*313d  
**National Security Forces in Contemporary American Society**

An examination of the broad range of American civil-military relations and the environmental context in which defense policy is formulated, focusing on the armed forces as an integral element of society. Special themes include: the role of the professional...
### Aerospace Studies

#### Aerospace Studies
An introduction to the theoretical aspects of leadership including a study of military management functions, principles, and techniques. Conducted primarily in seminar. May not be included in basic 105 graded hours by students with 120-hour graduation requirement. **Three credit hours.**

### Ancient History

#### Ancient History
**IN THE DEPARTMENT OF CLASSICS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>252d1</td>
<td>Greek History</td>
<td>Mrs. Koonce</td>
<td>Greece from the neolithic period to the sixth century, with emphasis on the Bronze Age generally and the Mycenaean period in particular. Open to freshmen with permission of the instructor. <strong>Three credit hours.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>254</td>
<td>Roman History</td>
<td>Mr. Howard</td>
<td>Topics in Roman history. Open to freshmen with permission of the instructor. <strong>Three credit hours.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>252</td>
<td>Problems in Greek History</td>
<td>Mrs. Koonce</td>
<td>Athens in the fifth century. <strong>Prerequisite:</strong> Permission of the instructor. <strong>Three credit hours.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>352</td>
<td>Problems in Greek History</td>
<td>Mrs. Koonce</td>
<td>Greece in the fourth century. <strong>Prerequisite:</strong> Permission of the instructor. <strong>Three credit hours.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Art

#### Art
First semester: an analytical approach to the visual arts and the historical development of European art through the Middle Ages.
<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>141, 142</td>
<td><strong>Drawing</strong>&lt;br&gt;Miss Matthews&lt;br&gt;Presented the fundamentals of representational drawing. Half of the time is spent working from the figure. Out-of-class drawing is very important. No previous drawing experience is needed. Enrollment limited. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>211d</td>
<td><strong>Introduction to Painting Problems</strong>&lt;br&gt;Mr. Meader&lt;br&gt;An initial confrontation with problems inherent in two-dimensional image-making with paint. Characteristics of formal structure, of representation, and of materials will be explored in a systematic manner. Suggested for students anticipating further work in painting. Enrollment limited. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>221, [222]</td>
<td><strong>Principles of Design</strong>&lt;br&gt;Mr. Meader&lt;br&gt;Emphasizes problems of form in two-dimensional structures, with some attention to the third dimension as well. The course will deal with both theoretical considerations and practical design problems. Enrollment limited. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[252]</td>
<td><strong>Architecture</strong>&lt;br&gt;The history of architecture in western Europe and America. Course work includes problems in architectural design and analysis, and the making of models of historical buildings. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>261, 262</td>
<td><strong>Beginning Sculpture</strong>&lt;br&gt;Miss Matthews&lt;br&gt;Designed to help the student to acquire a foundation in the sculptural techniques of wood and stone carving and welding. It is recommended that the student take both semesters. Enrollment limited. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>271</td>
<td><strong>American Art</strong>&lt;br&gt;Mr. Miller&lt;br&gt;Architecture, sculpture, and painting from colonial times to the present. Lectures and problems make use of the original material in the Colby collections. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>311</td>
<td><strong>The Art of Ancient Greece and Rome</strong>&lt;br&gt;Mr. Miller&lt;br&gt;Architecture, sculpture, and painting from the Archaic period into Roman times.&lt;br&gt;<em>Prerequisite: Art 121 or permission of the instructor. Three credit hours.</em></td>
</tr>
<tr>
<td>[312]</td>
<td><strong>Art of the Renaissance in Italy</strong>&lt;br&gt;The art of the fifteenth and sixteenth centuries in Italy, with emphasis on the major painters and sculptors.&lt;br&gt;<em>Prerequisite: Art 121, 122 or permission of the instructor. Three credit hours.</em></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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</tr>
<tr>
<td>313</td>
<td>Art of the Renaissance in Northern Europe</td>
</tr>
<tr>
<td>314</td>
<td>Baroque Art</td>
</tr>
<tr>
<td>[318]</td>
<td>European Art since 1800</td>
</tr>
<tr>
<td>314d</td>
<td>Advanced Painting</td>
</tr>
<tr>
<td>336</td>
<td>Advanced Sculpture</td>
</tr>
<tr>
<td>[353]</td>
<td>The Graphic Arts</td>
</tr>
<tr>
<td>354</td>
<td>History of Independent Film</td>
</tr>
<tr>
<td>371d</td>
<td>Advanced Painting</td>
</tr>
</tbody>
</table>
### Art of Ancient India

**Special reference** to Hindu and Buddhist architecture and sculpture.

*Prerequisite:* Permission of the instructor. *Two credit hours.*

### Seminar in Art Criticism

- **411**
  - **Seminar in Art Criticism**
  - **Mr. Carpenter**
  - Primarily for senior art majors. Practice in employing critical method, reading, and discussion of various approaches to art criticism are directed toward study of the present state of knowledge in this field. Nongraded. *Three credit hours.*

### Art Teaching Staff

- **411-L**
  - **Directed practice** in conduct of discussion sections in art history. Open to a limited number of upperclass art majors. Nongraded. *One credit hour.*

### Special Problems Staff

- **491, 492**
  - **Special Problems**
  - Individual study of special problems in the practice, history, or theory of the visual arts.
  - *Prerequisite:* Permission of the instructor. *One to four credit hours.*

### Seminar in East Asian Art

- **494**
  - **Seminar in East Asian Art**
  - A reading course in the art of China and Japan, with weekly discussions. Open only to East Asian studies majors. *Three credit hours.*

## Astronomy

**In the Department of Physics and Astronomy**

### World Systems

- **112**
  - **World Systems**
  - **Mr. Dudley**
  - Major turning points in man's understanding of the physical universe. The course examines the history and content of revolutionary changes of thought about motion from Copernicus to Einstein, and provides an introduction to special relativity. Occasional laboratory work is designed to illustrate the concepts discussed. Satisfies the laboratory science requirement. Enrollment limited. *Three credit hours.*

### Descriptive Astronomy

- **131**
  - **Descriptive Astronomy**
  - **Mr. Bancroft**
  - The earth, solar system, stars, galaxies, and universe. The course begins with a survey of what we know about our own planet, and progresses to a study of more complex systems. Some discussion of current theories of stellar evolution, the origin of the universe, and the observational evidence will be included. *Three credit hours.*
Biology

111
THE CELL, MENDELIAN GENETICS, MECHANISM OF EVOLUTION
STAFF

An introduction to concepts of cell structure and function, Mendelian genetics, and the mechanism of evolution. Four credit hours.

114
VERTEBRATE BIOLOGY: DEVELOPMENT, ANATOMY, AND ORGAN PHYSIOLOGY
STAFF

An introduction to the comparative anatomy and embryology of the vertebrates.

Prerequisite: Biology 111 or equivalent. Four credit hours.

115, 116
CONCEPTS IN BIOLOGY
STAFF

Primarily designed for students majoring in the social sciences or humanities. Each course examines a few biological concepts in some depth. The relative amounts of time spent in the field, in the laboratory, or in discussion of theory vary according to the topic covered. Satisfies the laboratory science distribution requirement. Enrollment limited. Three credit hours.

117
ECOLOGY AND FIELD BIOLOGY
MR. GILBERT

Natural patterns of the New England landscape will be studied through field trips to selected habitats. Lectures will relate these patterns to various environmental factors. Ecological concepts underlying the philosophy of “Spaceship Earth” will be discussed. Satisfies the laboratory science distribution requirement. Enrollment limited. Three credit hours.

118
ECOLOGY AND POPULATION BIOLOGY
MR. GILBERT

Population dynamics, topics in evolution, and animal behavior. The human “Population Bomb” and its ecological consequences will be discussed. Enrollment limited. Three credit hours.

31
HUMAN EVOLUTION
MR. EASTON

The evolutionary origin of Man, through study of selected original papers and short publications. Attention given to the basic theory of evolution and the forces which are effective in the process. Enrollment limited.

Prerequisite: Permission of the instructor. Three credit hours.

32
HUMAN EMBRYOLOGY AND REPRODUCTION

Human reproduction, from germ cell formation through the gestation period, with attention to physiologic and anatomic changes in mother and fetus as they occur during the process. Satisfies
<table>
<thead>
<tr>
<th>Course</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>135</td>
<td>MR. EASTON</td>
</tr>
<tr>
<td><strong>PLANT BIOLOGY</strong></td>
<td><strong>MR. FOWLES</strong></td>
</tr>
<tr>
<td>136</td>
<td>MR. FOWLES</td>
</tr>
<tr>
<td><strong>UNDERSTANDING EVOLUTION</strong></td>
<td><strong>MR. FOWLES</strong></td>
</tr>
<tr>
<td>271</td>
<td>MR. GILBERT AND MR. FOWLES</td>
</tr>
<tr>
<td><strong>INTRODUCTION TO ECOLOGY; INTRODUCTION TO PLANTS</strong></td>
<td><strong>MR. GILBERT AND MR. FOWLES</strong></td>
</tr>
<tr>
<td>272</td>
<td>MR. CHAMPLIN</td>
</tr>
<tr>
<td><strong>CELL BIOLOGY</strong></td>
<td><strong>MR. CHAMPLIN</strong></td>
</tr>
<tr>
<td>311</td>
<td>MR. FOWLES</td>
</tr>
<tr>
<td><strong>FIELD AND SYSTEMATIC BOTANY</strong></td>
<td><strong>MR. FOWLES</strong></td>
</tr>
<tr>
<td>†313</td>
<td><strong>INVERTEBRATE ZOOLOGY</strong></td>
</tr>
<tr>
<td>314</td>
<td>MR. FOWLES</td>
</tr>
<tr>
<td><strong>PLANT METABOLISM, GROWTH AND BEHAVIOR</strong></td>
<td><strong>MR. FOWLES</strong></td>
</tr>
</tbody>
</table>

135 **PLANT BIOLOGY**

An introduction to the principles of biology as illustrated by plants, with emphasis on structure, activities, and reproduction of green plants. Satisfies the laboratory science distribution requirement. Enrollment limited. *Three credit hours.*

136 **UNDERSTANDING EVOLUTION**

The scope, significance, and mechanisms of evolution. Enrollment limited. *Three credit hours.*

271 **INTRODUCTION TO ECOLOGY; INTRODUCTION TO PLANTS**

Part I: introduction to ecological principles; structure of natural communities, energy-flow, and nutrient-cycling within ecosystems; population dynamics. Field trips will be taken to selected sites representative of terrestrial, fresh-water, and marine habitats.

Part II: introductory survey of the plant kingdom, including life cycles and evolutionary relationships; physiology, morphology, and anatomy of the higher plants. Lecture and laboratory. *Prerequisite: Biology 111 or equivalent. Four credit hours.*

272 **CELL BIOLOGY**

An introduction to the study of cellular and molecular biology; an examination of the structure and function of nuclear and cytoplasmic components with an emphasis on experimental findings. Laboratory will include instruction in basic histological and cytochemical techniques. *Prerequisite: Biology 271 or equivalent and Chemistry 141, 142 (may be taken concurrently), or permission of the instructor. Four credit hours.*

311 **FIELD AND SYSTEMATIC BOTANY**

Plant variation and evolution, illustrating the diversity of problems investigated by plant systematists and the variety of techniques used in studying these problems. Assembly of a plant collection is required. *Four credit hours.*

†313 **INVERTEBRATE ZOOLOGY**

The morphology, physiology, and classification of the invertebrates in lecture and in laboratory. The first few weeks of the semester are spent largely in the field, gaining familiarity with invertebrate fauna and preparing collections. *Four credit hours.*

314 **PLANT METABOLISM, GROWTH AND BEHAVIOR**

The essential mechanisms of plant growth and development; photosynthesis, trans-location, and enzymology will be studied. *Four credit hours.*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>315</td>
<td>Physiology</td>
<td>An introduction to the physiological processes, including enzyme action, respiration, permeability, muscular contraction, nervous and hormonal coordination. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>317</td>
<td>Histology and Histological Technique</td>
<td>The structure of the cells, tissues, and organs of the vertebrate body and aspects of their function. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>318</td>
<td>Microbiology</td>
<td>The biology of bacteria and viruses. 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. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>319</td>
<td>Biology of the Lower Plants</td>
<td>Comparative studies of the morphology, development, physiology, and significance of algae, fungi, and bryophytes. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>331</td>
<td>Embryology</td>
<td>Vertebrate development, with emphasis on the experimental findings which led to our knowledge of the morphological and chemical processes underlying that development. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>333</td>
<td>Chordate Evolution</td>
<td>Origin of vertebrate form through consideration of homologies in extinct and living organisms. The laboratory will consist of examination and dissection of representative higher invertebrates and vertebrates. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>352</td>
<td>Ecological Theory</td>
<td>Distributional patterns within ecosystems; community structure and energetics; growth and regulation of populations, competition, and analysis of mathematical models; readings from contemporary sources will be discussed. Two credit hours.</td>
<td></td>
</tr>
<tr>
<td>354</td>
<td>Marine Ecology</td>
<td>Field and laboratory studies of estuarine and coastal waters; quantitative sampling methods and analysis of data will be accomplished through group and individual projects. 354 must be taken together with or following 352. Two credit hours.</td>
<td></td>
</tr>
<tr>
<td>356</td>
<td>Inland Ecology</td>
<td>Field and laboratory studies of terrestrial and fresh-water systems. Quantitative sampling methods and analysis of data will be accomplished through group and individual projects. 356 must be taken together with or following 352. Two credit hours.</td>
<td></td>
</tr>
</tbody>
</table>
358
Ecology Field Study
MR. GILBERT
A trip to a south-temperate or tropical area during the spring recess. Students must cover their own travel expenses.
Prerequisite: Biology 352, at least concurrently, or permission of the instructor. One credit hour.

372
Genetics
MR. CHAMPLIN
The mechanisms of inheritance in prokaryotic and eukaryotic organisms, with an emphasis on experimental findings. The physical and chemical bases for the behavior of genes in individuals and populations are examined. Three credit hours.

374
Genetics
MR. CHAMPLIN
Lecture and text material the same as Biology 372 but with the addition of laboratory sessions. Four credit hours.

401, 402
Biology Seminar
STAFF
Discussion of contemporary topics in biology. Nongraded. One credit hour for the year.

491, 492
Special Problems
STAFF
Normally open only to senior biology majors whose work in the department has been of better than average quality.
Prerequisite: Special permission of the department. One to four credit hours. Credit to be arranged through consultation.

All courses at the 300 level have as prerequisite: Biology 272 or permission of the department.

Chemistry

111
Studies in Environmental Biochemistry
MR. MAIER
A few situations in which polluting and ultimately toxic chemicals intrude upon the proper functioning of biochemical systems will be studied in great detail. Fundamentals of collateral branches of chemistry will be studied briefly when they apply to the nature of these systems. The goal of the course will be the development of analytical attitudes toward the role of a given chemical in the environment. A complete survey of biochemistry or of all polluting chemicals will not be attempted. Designed for environmental studies majors or as a nonlaboratory course for nonscience majors. It is not suitable as training for further study of chemistry in graduate school or as part of the undergraduate chemistry requirement for medical school. Three credit hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>112</td>
<td>Topics in Chemistry</td>
<td>The course is designed as a one-semester science course without laboratory credit for non-science majors. Chemistry is treated as a subdivision of natural philosophy rather than of technology. A small number of topics will be covered in some depth but at a level involving limited use of mathematics. Subjects covered will include atomic structure, nuclear energy, radioactivity, energy relationships, and environmental problems. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>121, 122</td>
<td>General Chemistry</td>
<td>Selected fundamental principles in inorganic chemistry; stoichiometry; ionic equilibria; atomic and molecular structure. Satisfies science distribution requirement but not laboratory science. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>141, 142</td>
<td>General Chemistry and Elementary Analysis</td>
<td>Lecture and text material the same as 121, 122 but with laboratory sessions added. First semester: stoichiometry and ionic equilibria, with laboratory practice in introductory quantitative analysis. Second semester: atomic and molecular structure, with the laboratory devoted chiefly to systematic semimicro qualitative analysis. Three hours of lecture, one hour of discussion, and three hours of laboratory per week. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>221, 222</td>
<td>Organic Chemistry</td>
<td>The chemistry of carbon compounds, aliphatic, aromatic, and heterocyclic, from the point of view of synthesis, structure, properties, and uses. Prerequisite: Chemistry 122. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>241, 242</td>
<td>Organic Chemistry</td>
<td>Lecture and text material the same as 221, 222 but with laboratory sessions added: separations, purifications, syntheses, determination of important properties, elementary analysis. Three hours of lecture, one hour of discussion, and six hours of laboratory per week. Prerequisite: Chemistry 142. Five credit hours.</td>
<td></td>
</tr>
<tr>
<td>331</td>
<td>Quantitative Analysis</td>
<td>A theoretical and practical study of fundamentals of gravimetric and volumetric methods of analysis. Laboratory work emphasizes the acquisition of manipulative skills. Lectures are devoted to principles underlying chemical analysis, literature of analytical chemistry, precision, and sources of error. Two hours of lecture and a minimum of six hours per week of laboratory work. Prerequisite: Chemistry 142. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>332</td>
<td>Instrumental Analytical Chemistry</td>
<td>Theoretical and practical instruction in special instrumental methods. Laboratory work involves potentiometric determinations, atomic, ultra-violet, infra-red, and nuclear magnetic reso-</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
<td>Credits</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>341, 342</td>
<td>Physical Chemistry</td>
<td>Mr. Ray</td>
<td>4</td>
</tr>
<tr>
<td>411</td>
<td>Inorganic Chemistry</td>
<td>Mr. Smith</td>
<td>3</td>
</tr>
<tr>
<td>431</td>
<td>Qualitative Organic Analysis</td>
<td>Mr. Reid</td>
<td>4</td>
</tr>
<tr>
<td>432</td>
<td>Advanced Organic Chemistry</td>
<td>Mr. Reid</td>
<td>2</td>
</tr>
<tr>
<td>434</td>
<td>Advanced Physical Chemistry</td>
<td>Mr. Smith</td>
<td>3</td>
</tr>
<tr>
<td>467, 468</td>
<td>Biochemistry</td>
<td>Mr. Maier</td>
<td></td>
</tr>
</tbody>
</table>


Prerequisite: Chemistry 331; Mathematics 122d (may be taken concurrently with Chemistry 341); Physics 122. Five credit hours.
of laboratory per week. Biology 111 and 114 are recommended as preparation.

Prerequisite: Chemistry 242. Four credit hours.

Laboratory work of a special (semiresearch) nature may be arranged with the instructor. Three to nine hours per week. One to three credit hours.

Classics (IN TRANSLATION)

IN THE DEPARTMENT OF CLASSICS

These courses require no knowledge of Latin or Greek. Attention is called also to courses in Ancient History.

133
INTRODUCTION TO GREEK THOUGHT
MRS. KOONCE AND MR. WESTERVELT

A study of some aspects of Greek culture, to include Homer's Odyssey, selections from Hesiod and the elegiac and lyric poets, the Antigone and the Electra of Sophocles, the Libation Bearers of Aeschylus, and the Electra of Euripides, with readings in Herodotus, Thucydides, and Plato. Discussions to focus particular attention on changing attitudes toward vengeance and justice from Homer to Plato and on the rise of the individual that culminated in the creation of Athenian democracy. Three credit hours.

132
GREEK DRAMA
MR. WESTERVELT

Greek tragedy with particular emphasis on the Oresteia of Aeschylus, the Oedipus of Sophocles, and the Hippolytus of Euripides. Open to freshmen with permission of the instructor. Three credit hours.

134d1
EARLY GREEK POETRY
MR. WESTERVELT

The Iliad and the Odyssey of Homer in the light of the techniques of oral poetry. Three credit hours.

Comparative Literature

OFFERED BY THE DEPARTMENTS OF CLASSICS, ENGLISH, AND MODERN LANGUAGES

The psychological novel, tracing its development from early forms through works of the twentieth century. Representative major
works of various countries will be studied in English. *Three credit hours.*

[338]
**LITERARY MOVEMENTS**

Studies in the anti-hero from Childe Harold to his leather-jacketed descendents of the 1950's. *Three credit hours.*

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**Computer Science**

**IN THE DIVISION OF NATURAL SCIENCES**

[112d]
**INTRODUCTION TO THE COMPUTER**

Seminar on present and potential uses and effects of computers in a technological society; the computer as information machine; examination of various applications. Practical experience in computer use through illustrative programming problems. Enrollment limited. *Two credit hours.*

---

**East Asian Studies**

**OFFERED BY THE DEPARTMENTS OF ART, HISTORY AND GOVERNMENT, MODERN FOREIGN LANGUAGES, AND PHILOSOPHY AND RELIGION**

491, 492
**SPECIAL TOPICS**

*Staff*

Individual study of special problems in East Asian civilization, offered in the departments which participate in the program. *Prerequisite: Permission of the instructor and the program director. Three credit hours.*

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**Economics**

141, 142
**PRINCIPLES OF ECONOMICS**

*Staff*

Principles of economics and their applications to modern economic problems. Formerly listed as Economics 241, 242. *Three credit hours.*

231d
**ECONOMIC ANALYSIS AND PUBLIC POLICY**

*Staff*

The methods of economic analysis studied in the first-year course will be applied to various matters of current economic policy. Each section will consider different policy problems, examples of which might include the economics of warfare, welfare, population growth, the mystique of growth, economics of ecology and the environment, urban economics, poverty and discrimination.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
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</thead>
</table>
| 333        | Macroeconomic Theory                            | Mr. Dunlevy       | Aggregate economic analysis, with emphasis upon the Keynesian theory of the determination of income and employment. Examination of recent post-Keynesian developments and critical analysis of historical development of the theory and policies associated with it. Formerly listed as Economics 336.  
  *Prerequisite:* Economics 141, 142. Three credit hours. |
| 334        | Microeconomic Theory                            | Instructor        | Theoretical concepts involved in the determination of price and output in a market economy. Analysis of both commodity and factor markets will be undertaken. Required of all majors. Formerly listed as Economics 331.  
  *Prerequisite:* Economics 141, 142. Three credit hours. |
| 321, 322   | Economics of Government Regulation               | Instructor        | Economic power in a private-enterprise economy and the role of government in this context. An examination of selected industries.  
  *Prerequisite:* Economics 141, 142. Three credit hours. |
| 338        | Money and Banking                               | Mr. Hanna         | The money market: supply models of money creation, and alternative approaches to the demand for money. The role of money, credit, and banking in the American economy, and the applicability of monetary policy to the problems of economic stability. Formerly listed as Economics 341, 342.  
  *Prerequisite:* Economics 141, 142. Three credit hours. |
| 333-344    | Comparative Economic Development                | Mr. Hogendorn     | Growth and development in various settings. The first semester will concentrate on developing areas and their drive toward economic betterment. Analysis of the techniques involved and the problems to be encountered in the growth process will be undertaken. Emphasis is on Africa, India, Southeast Asia, and Latin America. The second semester will consider the basic types of economic systems encountered in the developed world, with special attention to the problems of planning. Emphasis is on Western Europe, Japan, the Soviet Union, and China. Formerly listed as Economics 334 and 391.  
  *Prerequisite:* Economics 141, 142. Three credit hours. |
<table>
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>352</td>
<td>Fiscal Policy</td>
<td>The theory and policy of economic stabilization, the goals of stabilization policy and the use of the federal budget to achieve them. The Phillips curve and the use of direct controls. The role of intergovernmental fiscal relations will also be considered.</td>
<td>Economics 141, 142</td>
<td>3</td>
</tr>
<tr>
<td>353</td>
<td>Public Labor Relations and Manpower Policy</td>
<td>Development of public policy toward unions and collective bargaining. Some critical issues of manpower policy-minority group problems, discrimination in employment and in unions, national manpower needs and resources, investment in human capital. Formerly included in Economics 361, 362.</td>
<td>Economics 141, 142</td>
<td>3</td>
</tr>
<tr>
<td>355</td>
<td>Wages, Employment, and Collective Bargaining</td>
<td>Wage determination and manpower allocation in union and nonunion labor markets. Implications of collective bargaining for such current issues as employment, inflation, national wage policy and nonwage conditions of work. Formerly included in Economics 361, 362.</td>
<td>Economics 141, 142</td>
<td>3</td>
</tr>
<tr>
<td>372</td>
<td>European Economic History</td>
<td>The framework of economic analysis applied to European historical patterns and trends. Aspects of industrialization, capital accumulation, technology change, trade and migration, and effects of entrepreneurial and government decisions.</td>
<td>Economics 141, 142</td>
<td>3</td>
</tr>
<tr>
<td>374</td>
<td>American Economic History</td>
<td>The framework of economic analysis applied to American historical patterns and trends. Aspects of industrialization, capital accumulation, technology change, trade and migration, and effects of entrepreneurial and government decisions.</td>
<td>Economics 141, 142</td>
<td>3</td>
</tr>
<tr>
<td>381, 382</td>
<td>International Economics</td>
<td>The nature of international economic relations, including the theory of international trade, international monetary analysis,</td>
<td>Economics 141, 142</td>
<td>3</td>
</tr>
</tbody>
</table>
monetary reform, capital movements and unilateral transfers, commodity agreements and cartels, international economic organizations.

*Prerequisite:* Economics 141, 142. Three credit hours.

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*393
Introduction to Econometrics
Mr. Hanna

Applications of basic mathematical and statistical concepts to economic analysis. Model building: specifications, estimations, tests, and forecasting. Quantitative tools and the links between economic prior and posterior decisions. Formerly listed as Economics 394.

*Prerequisite:* Economics 141, 142. Three credit hours.

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*394
Econometrics
Mr. Dunlevy

Introduction to the empirical testing of economic relationships. Regression theory, multiple regression, the least-squares assumptions, errors in the variables, serial correlation, and other problems. Simultaneous equations, identification, various estimating techniques.

*Prerequisite:* Economics 141, 142 and either Economics 393, Mathematics 241, or Mathematics 381. Three credit hours.

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111
History of Economic Thought
Mr. Gemery

An examination and appraisal of the development of economic theory. Major writing from the mercantilist period through the Keynesian is included. Extensive use of source material. Required of all majors.

*Prerequisite:* Economics 141, 142 and senior standing. Three credit hours.

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91, 492
Special Topics in Economics
Taft

Independent study devoted to a topic chosen by the student with the approval of the department. Students may be invited by the department to prepare a thesis in the second term, successful completion and defense of which will result in the degree being awarded “with honors in economics.”

*Prerequisite:* Senior standing as economics major. One to four credit hours.

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94
Senior Seminar
Mr. Hanna

Advanced topics in economic analysis and policy will be considered in a seminar held once weekly. Students will be expected to prepare and deliver seminar papers on advanced topics in economic analysis and policy.

*Prerequisite:* Senior standing as economics major. Three credit hours.
Education

213
Sociology of Education
Mr. Jacobson

An introduction to education, focusing on human relations. Open to prospective teachers; required for teaching recommendation. See also Education 253.

Prerequisite: Permission of the instructor. Three credit hours.

252d1
Developmental Psychology
Mr. Zohner

Listed as Psychology 252d1 (q.v.). Required for certification. Three credit hours.

253, 254
Field Experience in Education
Mrs. Pestana

One hour daily to be served as an assistant teacher in a local elementary school. 253 required for teaching recommendation. Nongraded.

Prerequisite: Concurrent enrollment in Education 213 or Psychology 252 and permission of the instructor. One credit hour.

333
Philosophy of Education
Mr. Hudson

Listed as Philosophy 333 (q.v.). Required for certification. See also Education 353. Three credit hours.

336
History and Government of Education
Mr. Jacobson

The history and government of American educational systems. Open to prospective teachers; required for certification.

Prerequisite: Permission of the instructor. Three credit hours.

352
American Philosophy
Mr. Hudson

Listed as Philosophy 352 (q.v.). Three credit hours.

353, 354
Field Experience in Education
Mrs. Pestana

One hour daily to be served as an associate teacher in a local junior high school. 353 required for teaching recommendation. Nongraded.

Prerequisite: Concurrent enrollment in Philosophy 333 or Education 336 and permission of the instructor. One credit hour.

441, 442
Internship
Mr. Jacobson

The teaching-learning process. Open to prospective secondary-school teachers with commonly taught majors. These courses and full-time teaching internship during January required for certification. See also Education 453. Nongraded.
**Education, English**

**453, 454**
**Field Experience in Education**
**MR. JACOBSON**

- Prerequisite: Concurrent enrollment in Education 441 or 442 and permission of the instructor. One credit hour.
- Independent study of advanced topics and areas of individual interest in research and development. Prerequisite: Permission of the instructor. One to three credit hours.

**491, 492**
**Special Topics**
**STAFF**

- Prerequisite: Permission of the instructor. Three credit hours.

**English**

**111, 112, 113, 114**
**English Fundamentals**
**MR. ARNOLD**

- Courses offering tutorial aid and intensive drill in the fundamentals of written English for those whose native language is not English or whose training in English is limited. Nongraded. Prerequisite: Recommendation of the department. A student may be passed to English 115 at the end of any term of English 111, 112, 113, 114. Three credit hours.

**115**
**English Composition**
**MR. KENNEY AND STAFF**

- Frequent practice in expository writing. Emphasis will be on the rhetorical modes of organization and the development of analysis and argument. Three credit hours.

**116**
**Expository Writing**
**MR. ARNOLD**

- For those who desire further practice in the fundamentals of composition. Prerequisite: English 115 or exemption. Three credit hours.

**118**
**Creative Writing**
**MR. GILLESPIE**

- Introduction to the writing of poetry, with emphasis upon student manuscripts. Prerequisite: English 115 or exemption. Three credit hours.

**152d**
**Introduction to Literature**
**MR. MACKAY AND STAFF**

- Fundamental principles of the composition and oral delivery of speeches. Two credit hours.

An introduction to the analytic study of the structure and meaning of major works of literature. Particular attention will be paid to ways in which a nonrational rhetoric of imagery and paradox
may communicate emotions, intuitions, and insights. May be repeated once for added course credit with departmental permission.

*Prerequisite:* English 115 or exemption. *Three credit hours.*

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>211</td>
<td>Introduction to Literature in English</td>
<td>Mr. Mackay</td>
<td>Literature in the English language (medieval through Renaissance) through a study of selected English authors.</td>
<td><em>Prerequisite:</em> English 152. <em>Three credit hours.</em></td>
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<tr>
<td>212</td>
<td>Introduction to Literature in English</td>
<td>Mr. Kenney</td>
<td>Literature in the English language (eighteenth through twentieth centuries) through a study of selected English authors.</td>
<td><em>Prerequisite:</em> English 152. <em>Three credit hours.</em></td>
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<tr>
<td>231d2</td>
<td>Advanced Expository Writing</td>
<td>Mr. Koonce</td>
<td>Rhetorical principles and characteristics of style in the works of outstanding prose writers. Frequent exercises in imitation will supplement a considerable amount of original composition.</td>
<td><em>Prerequisite:</em> Permission of the instructor; enrollment limited. <em>Three credit hours.</em></td>
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<tr>
<td>233</td>
<td>Argumentation and Debate</td>
<td>Mr. Witham</td>
<td>Principles of argumentation with application in extended persuasive speeches and formal debate.</td>
<td><em>Prerequisite:</em> English 131 or permission of the instructor. <em>Three credit hours.</em></td>
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<tr>
<td>251d</td>
<td>Introduction to Old and Middle English Literature</td>
<td>Mr. Mackay</td>
<td>Readings will consist of <em>Beowulf</em> and other old English elegiac and heroic poetry, old and middle English religious and secular lyrics, and <em>The Canterbury Tales.</em></td>
<td><em>Prerequisite:</em> English 152. <em>Three credit hours.</em></td>
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<tr>
<td>253d</td>
<td>Introduction to the English Renaissance</td>
<td>Mr. Arnold and Mr. Benbow</td>
<td>An exploration of the nature of the English Renaissance through a study of its prose, poetry, and drama. Consideration will be given to the major literary traditions, to intellectual background, and to selected works of Marlowe, Shakespeare, Sidney, Spenser, Surrey, Wyatt.</td>
<td><em>Prerequisite:</em> English 152. <em>Three credit hours.</em></td>
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<tr>
<td>255d</td>
<td>Introduction to the Poetry of the Seventeenth Century</td>
<td>Mr. Koonce</td>
<td>The major poetic and intellectual traditions in the seventeenth century as represented by Donne, Jonson, Herbert, Marvell, Dryden, and selected minor poets.</td>
<td><em>Prerequisite:</em> English 152. <em>Three credit hours.</em></td>
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<td>Course Number</td>
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<td>257d</td>
<td>INTRODUCTION TO EIGHTEENTH-CENTURY LITERATURE</td>
<td>Selected works of Pope, Swift, Johnson, Blake, and other major writers of the eighteenth century.</td>
<td>English 152. Three credit hours.</td>
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<td>MR. SWENEY</td>
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<td>259d</td>
<td>INTRODUCTION TO ROMANTICISM</td>
<td>The major Romantic poets, with ancillary reading in the essay, novel, and minor poetry of the period.</td>
<td>English 152. Three credit hours.</td>
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<td>MR. MIZNER AND MISS CURRAN</td>
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<td>271d</td>
<td>INTRODUCTION TO AMERICAN LITERATURE</td>
<td>Major American authors, primarily from the nineteenth century, with particular consideration given to the development of an American tradition in poetry and fiction.</td>
<td>English 152. Three credit hours.</td>
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<tr>
<td>273d2</td>
<td>INTRODUCTION TO VICTORIAN LITERATURE</td>
<td>The Victorian consciousness, particularly the “divided self,” seen through the work of Tennyson, Browning, Thackeray, Dickens, Matthew Arnold, and others.</td>
<td>English 152. Three credit hours.</td>
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<td></td>
<td>MISS CURRAN</td>
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<tr>
<td>311d2</td>
<td>STUDIES IN MEDIEVAL LITERATURE</td>
<td>Medieval literature exclusive of Chaucer’s Canterbury Tales. Topics will vary from year to year.</td>
<td>English 152. Three credit hours.</td>
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<td>INSTRUCTOR</td>
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<tr>
<td>312</td>
<td>STUDIES IN THE RENAISSANCE</td>
<td>The poetry of Edmund Spenser. Attention will be focused upon The Faerie Queene and the problem of Renaissance epic.</td>
<td>English 152. Three credit hours.</td>
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<td>MR. ARNOLD</td>
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<td>315</td>
<td>STUDIES IN THE SEVENTEENTH CENTURY</td>
<td>An exploration of the relationships between Tudor-Stuart and Restoration drama. Among the dramatists studied will be Marlowe, Jonson, Webster, Milton, Dryden, Shadwell, Otway, and Congreve.</td>
<td>English 152. Three credit hours.</td>
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<td></td>
<td>MR. KOONCE</td>
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<tr>
<td>317</td>
<td>INTRODUCTION TO SHAKESPEARE</td>
<td>Lectures on major comedies, histories, and tragedies, selected to cover Shakespeare’s career and to illustrate the nature of Shakespearean drama. English 317 and 321 may not both be taken for credit.</td>
<td>English 152. Three credit hours.</td>
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<td>MR. ARNOLD</td>
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<tr>
<td>319</td>
<td>MILTON</td>
<td>Milton’s poetry and prose.</td>
<td>English 152. Three credit hours.</td>
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<td>MR. ARNOLD</td>
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| 321, 322 | A study of selected plays with special attention to the intellectual background and to Shakespeare's development as a dramatist. English 317 and 321 may not both be taken for credit.  
*Prerequisite:* English 152. *Three credit hours.* |
| 331d2 | The development of the novel as a major art form. Readings in Defoe, Richardson, Fielding, Smollett, Sterne, and others.  
*Prerequisite:* English 152. *Three credit hours.* |
| 332 | Romantic prose, both fiction and nonfiction. Though some attention will be given to Romantic criticism, the emphasis will be on the familiar essay, the novel, and the effort to develop new prose genres.  
*Prerequisite:* English 152. *Three credit hours.* |
| 333 | The union and expansion of Romantic and earlier Victorian modes in the work of Swinburne, the Pre-Raphaelites, Pater, Hopkins, Hardy, Wilde, and others.  
*Prerequisite:* English 152. *Three credit hours.* |
| 335 | Selected prose and poetry from the Puritan period, the Age of Reason, and the pre-Romantic movement in American literature.  
*Prerequisite:* English 152. *Three credit hours.* |
| [336] | The development of fictional techniques in America during the late nineteenth and early twentieth centuries. Readings will be drawn from the following authors: Twain, James, Crane, Howells, Norris, Garland, and Dreiser. English 336 and 338 may not both be taken for credit.  
*Prerequisite:* English 152. *Three credit hours.* |
| 337d | A study of a selected aspect of American culture and life, employing the tools of other academic disciplines to supplement the basic literary orientation of the instructor. May be repeated once for added course credit with departmental permission.  
*Prerequisite:* English 152. *Three credit hours.* |
<p>| 338 | An experimental approach to realism and naturalism in American literature. The aim of the course is to explore works of fiction through techniques of the drama—readings, improvisation, body movement, scenic analysis, and performance. The course is... |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Instructor</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>351</td>
<td>Edwardian Literature</td>
<td>Mr. Kenney</td>
<td>English 152. Three credit hours.</td>
</tr>
<tr>
<td>352</td>
<td>Contemporary American Fiction</td>
<td>Mr. Basset</td>
<td>English 152. Three credit hours.</td>
</tr>
<tr>
<td>353</td>
<td>Twentieth-Century Poetry</td>
<td>Instructor</td>
<td>English 152. Three credit hours.</td>
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<tr>
<td>354</td>
<td>Contemporary British Fiction</td>
<td></td>
<td>English 152. Three credit hours.</td>
</tr>
<tr>
<td>367, 368</td>
<td>Modern Drama</td>
<td>Mr. Suss</td>
<td>English 152. Three credit hours.</td>
</tr>
<tr>
<td>371</td>
<td>History of Literary Criticism</td>
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<td>English 152. Three credit hours.</td>
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<tr>
<td>73d2</td>
<td>History of the Language</td>
<td>Mr. Mackay</td>
<td>English 152. Three credit hours.</td>
</tr>
</tbody>
</table>

also intended as an experiment with the open classroom, away from lecture and discussion and toward the cooperative spirit of a performance group. English 336 and 338 may not both be taken for credit.

Prerequisite: English 152. Three credit hours.

The intellectual, social, and artistic turmoil of the transitional years, 1880-1920; readings will be selected from the works of Ford, Conrad, Forster, Lawrence, Wilde, and Yeats.

Prerequisite: English 152. Three credit hours.

Lectures covering the fiction of Fitzgerald, Hemingway, Faulkner, Dos Passos, Steinbeck, Warren, Mailer, Bellow, Barth, and others, with emphasis upon the pattern of fictional experience of the hero in conflict with the modern world.

Prerequisite: English 152. Three credit hours.

Critical reading and discussion of major poets of the modern tradition: Yeats, Frost, Stevens, Pound, Eliot, Thomas, and others.

Prerequisite: English 152. Three credit hours.

Lectures on the British novel since World War I, emphasizing the works of Virginia Woolf and D. H. Lawrence and considering such other writers as Aldous Huxley, Graham Greene, Joyce Cary, William Golding, and Iris Murdoch.

Prerequisite: English 152. Three credit hours.

The modern theatre in America and Europe, approached through critical reading and discussion of outstanding plays of the late nineteenth and twentieth centuries, with lectures on the important theatrical movements of the times.

Prerequisite: English 152. Three credit hours.

The development of English criticism.

Prerequisite: English 152. Three credit hours.

English language changes involving sound, spelling, syntax, inflexion, and vocabulary from Anglo-Saxon times to the present.

Course materials will consist of a basic historical text supplemented by illustrative selections from English and American literature.

Prerequisite: English 152. Three credit hours.
374d1
THE LITERATURE OF EXISTENTIALISM
MR. MIZNER
Readings in the novel and drama of England, France, Russia, and Germany.
Prerequisite: English 152. Three credit hours.

375d2
BLACK AMERICAN LITERATURE
MR. BRANCACCI
The writings of Black Americans from the beginnings to the present, with special emphasis on autobiography and fiction.
Prerequisite: English 152. Three credit hours.

391d2
ADVANCED FICTION WORKSHOP
MR. GILLESPIE
Practice in the writing of short stories, with major emphasis upon student manuscripts.
Prerequisite: English 118 or permission of the instructor. Three credit hours.

393
ADVANCED POETRY WORKSHOP
MR. GILLESPIE
Practice in the writing of poetry, with major emphasis upon student manuscripts.
Prerequisite: English 118 or permission of the instructor. Three credit hours.

396d
ORAL INTERPRETATION
MR. WITHAM
Principles of selection, analysis, and preparation of poetry, prose, and drama for oral presentation before an audience.
Prerequisite: English 152. Three credit hours.

411
THE TEACHING OF ENGLISH
MR. BRANCACCI
Reading and discussion of current issues and methods in the teaching of English, and participation in the Center for Coordinated Studies. Nongraded.
Prerequisite: Concurrent enrollment in Education 441 or permission of the instructor. Three credit hours.

423, 424
MAJOR AMERICAN ROMANTICS
MR. GARY
The golden age of Romanticism in American literature. First semester: representative works of Poe, Emerson, Thoreau; second semester: Whitman, Melville, Hawthorne.
Prerequisite: English 152. Three credit hours.

491, 492
TOPICS IN LITERATURE
STAFF
Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work.
Prerequisite: Permission of the chairman. Three credit hours.

493, 494
SEMINARS IN ENGLISH AND AMERICAN LITERATURE
STAFF
Topics which change each semester may cover an author, a genre, or a literary movement.
Prerequisite: Permission of the department. Three credit hours.
### French

**In the Department of Modern Foreign Languages**

Unless otherwise specified, all courses numbered above 114 are conducted in French.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
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<tbody>
<tr>
<td>111, 112</td>
<td>Elementary French</td>
<td>Introduction to the language by an audio-lingual method, with emphasis on understanding, speaking, and reading. Use of taped materials in the language laboratory is a regular part of the class work. <em>Four credit hours.</em></td>
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<tr>
<td>113, 114</td>
<td>Intermediate French</td>
<td>Continued practice in the oral-aural skills; increasing emphasis on reading (short stories) and writing. These studies, and the review of grammar, are supplemented with drill work in the laboratory. <em>Prerequisite:</em> French 112 or two years of high-school French and appropriate score on the placement test. <em>Three credit hours.</em></td>
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<tr>
<td>125, 126</td>
<td>Introduction to French Literature</td>
<td>Introduction to French literature through the reading of selected masterpieces illustrative of the major genres. Intensive reading and <em>analyse de texte.</em> <em>Prerequisite:</em> French 114 or three years of high-school French and appropriate score on the placement test. Qualified students may be admitted to the second semester without the first. <em>Three credit hours.</em></td>
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<tr>
<td>223, 224</td>
<td>French Civilization</td>
<td>A history of French society and its culture from the Middle Ages to the present. Supplementary readings in French literature as examples of social or intellectual attitudes. <em>Prerequisite:</em> French 126. <em>Three credit hours.</em></td>
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<tr>
<td>241, 242</td>
<td>Contemporary French Literature</td>
<td>Introduction to literature of the twentieth century, with representative works in prose, poetry, and theatre. <em>Prerequisite:</em> French 126 or permission of the instructor. <em>Three credit hours.</em></td>
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<tr>
<td>337</td>
<td>French Romanticism</td>
<td>Study of the Romantic movement in France with particular emphasis on the poetry of Lamartine, Vigny, Musset, and Hugo.</td>
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</tbody>
</table>
Prerequisite: French 242 or permission of the instructor. Three credit hours.

Study of *Les Fleurs du mal* and some of the critical writings of Baudelaire, as well as the poetry of Verlaine, Rimbaud, Mallarmé, and Valéry.

Prerequisite: French 242 or permission of the instructor. Three credit hours.

The major authors of the seventeenth century with particular emphasis on the classical period of Louis XIV. Supplementary readings in the social and intellectual background of the period.

Prerequisite: French 242 or permission of the instructor. Three credit hours.

The philosophical movement in France, with particular attention to Montesquieu, Voltaire, Diderot, and Rousseau. Literary history of the age with readings from important works in the field of belles-lettres.

Prerequisite: French 242 or permission of the instructor. Three credit hours.

The major novelists of the nineteenth century, with special emphasis on Stendhal, Balzac, Flaubert, and Zola.

Prerequisite: French 242. Three credit hours.

Critical readings in some of the major novelists of France from Proust to Robbe-Grillet. In the second semester, some consideration will be given to contemporary novelists of French Canada.

Prerequisite: French 242 or permission of the instructor. Three credit hours.

A study of playwrights and the French stage from Jarry to Arrabal.

Prerequisite: French 242 or permission of the instructor. Three credit hours.

Problems and methods of teaching French. Readings, discussions, practice work, and criticism. Some attention is also directed to the FLES program. Counts as three hours in education toward the Maine Secondary School Teaching Certificate. Conducted in English. Nongraded.

Prerequisite: French 222 or 242. Three credit hours.
Directed practice in conduct of introductory language courses. Open to a limited number of students enrolled in French 411. Nongraded. Two credit hours.

Characteristics of French style as seen in various authors. Representative readings and free composition, with some work in the history of the language. 
Prerequisite: Permission of the instructor. Three credit hours.

Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. 
Prerequisite: Permission of the instructor. Two to four credit hours.

Topics which change each semester may cover an author, a genre, or a literary movement. 
Prerequisite: Permission of the instructor. Three credit hours.

Geology

A descriptive introduction to physical, dynamical, and biological oceanography. Topics will include: the structure and composition of the ocean and its floor; tides, currents, and other important dynamical features; the nature of ocean life. The value of the oceans for food and physical resources will be discussed. Three credit hours.

Course 112, supplemented by laboratory experience and by field trips to nearby oceanographic institutes and to the seashore. Enrollment limited to 25 students. Four credit hours.

The physical and biological evolution of the earth, with emphasis on mechanisms and processes. Satisfies science distribution requirement but not laboratory science. Three credit hours.

1 Of the year sequences 121e, 122, 141e, 142, 161e, 162, not more than one sequence may be offered for course credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
</table>
| 141c, 142   | Introduction to Geological Science II\(^1\)  
MR. ALLEN | The physical and biological evolution of the earth, with emphasis on mechanisms and processes; laboratory and field sessions. Enrollment limited to one laboratory section of 25 to 30 students recommended for those planning to major in geology or environmental studies. *Four credit hours.* |
| 161e, 162   | Problems in Geology\(^1\)  
STAFF | A study of 8 to 10 major problems under active investigation about which there is disagreement among competent scholars. At least one problem each semester involves extensive individual laboratory or field investigation. Not an introduction to geological mechanisms and processes, and not for students planning to major in geology. One section deals with environmental problems; enrollment limited to 20 to 25 students per section. *Three credit hours.* |
| 212d1       | Sedimentation and Sedimentary Rocks  
MR. PESTANA | Mechanical and chemical processes of sedimentation, environments, methods of mechanical analysis of sediments, and a description and classification of the sedimentary rocks. *Four credit hours.* |
| 214         | Rocks in Hand Specimen  
MR. ALLEN | Identification and description of rocks in hand specimen, and study of the modes of formation. Igneous, sedimentary, and metamorphic rocks are considered systematically. Field occurrences will be emphasized whenever possible. May not be taken for credit in addition to Geology 321, 322.  
*Prerequisite:* Geology 122 or 142 or 161, 162 (may be taken concurrently). *Four credit hours.* |
| \([221, 222]\) | Map Interpretation and Geomorphology of the United States | Origin, history, and classification of landforms, based on study of topographic maps of the United States, leading to an analysis of the structure and geologic history of the geomorphic provinces of the United States.  
*Prerequisite:* Geology 122 or 142 or 161, 162. *Three credit hours.* |
| \([241, 242]\) | Geologic Structures and Field Methods | Analysis of rock structures and their significance, and techniques of field mapping.  
*Prerequisite:* Geology 122 or 142 or 161, 162. *Four credit hours.* |

\(^1\)Of the year sequences 121c, 122, 141c, 142, 161e, 162, not more than one sequence may be offered for course credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>261, 262</td>
<td>Invertebrate Paleontology</td>
<td>Morphology of invertebrates and general principles, including nomenclature, taxonomy, paleoecology, evolution, correlation, and techniques of identification.</td>
<td>For 261: Geology 122 or 142 or 162 or one year of biology; for 262: Geology 261 or Biology 313.</td>
<td>Four credit hours.</td>
</tr>
<tr>
<td>271</td>
<td>Glacial Geology</td>
<td>The origin and development of glaciers, with special attention to the Pleistocene of New England. An extended field mapping problem will be assigned.</td>
<td>Geology 122 or 142 or 162. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>281, 282</td>
<td>Mineralogy</td>
<td>Physical properties and chemical structure of minerals leading to investigation of the chemical composition and optical properties of minerals with the petrographic microscope and emission spectrograph.</td>
<td>Chemistry 141 (may be taken concurrently) or permission of the instructor. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>292</td>
<td>Meteorology</td>
<td>Physical properties of the atmosphere; the origin and classification of weather types; air mass analysis and principles of prediction; and meteorology of air quality. Does not satisfy the science requirement. Two credit hours.</td>
<td></td>
<td>Two credit hours.</td>
</tr>
<tr>
<td>321, 322</td>
<td>Igneous and Metamorphic Petrology</td>
<td>Hand-specimen and thin-section examination of igneous and metamorphic rocks to determine structure, composition, and origin. May be taken for credit in addition to Geology 214.</td>
<td>Geology 282. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>352</td>
<td>Stratigraphy</td>
<td>Principles of stratigraphy. Includes a study of the relationships and correlation of sedimentary rocks. Laboratories include work with index fossils and a detailed analysis and correlation of well samples.</td>
<td>Geology 212, and Geology 261 or Biology 313. Four credit hours.</td>
<td></td>
</tr>
<tr>
<td>491, 492</td>
<td>Special Problems in Geology</td>
<td>Field and laboratory problems in geology or environmental problems, with regular reports and a final written report.</td>
<td>Permission of the instructor. One to four credit hours.</td>
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</tbody>
</table>
German

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

Unless otherwise specified, all courses numbered above 114 are conducted in German.

111, 112
Elementary German

Staff

Introduction to the language by an audio-lingual method, with emphasis on understanding, speaking, and reading. Use of tape materials in the language laboratory is a regular part of the class work. Four credit hours.

113, 114
Intermediate German

Staff

Continued practice in the oral-aural skills; increasing emphasis on reading and writing through use of modern prose and poetry. These studies, and the review of grammar, are supplemented with drill work in the laboratory.

Prerequisite: German 112 or two years of high-school German and appropriate score on the placement test. Three credit hours.

117, 118
Intensive Intermediate German

Staff

Review of basic grammar, with continued practice in recognizing and using German patterns. Intensive reading of short stories, with emphasis on vocabulary building, supplemented with laboratory drills.

Prerequisite: German 111, 112 with grade of B or higher, or equivalent. Four credit hours.

131
Advanced German

Staff

An analysis of German grammatical patterns studied in the context of contemporary German literature.

Prerequisite: German 114. Three credit hours.

132
German Composition and Conversation

Staff

Continued study of grammar and idioms; the writing of compositions; required listening assignments in language laboratory; practice in comprehension of oral German.

Prerequisite: German 131 or permission of the instructor. Three credit hours.

211, 212
Reading in Literature, Science, Current Events

Staff

Designed to provide students with the opportunity to maintain and firmly establish their language skills. Nongraded.

Prerequisite: German 114 or equivalent. One credit hour.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>225, 226</td>
<td>Introduction to German Literature</td>
<td>Introduction to German literature through the reading of selected masterpieces. In-depth study of selected works, with collateral readings. Formerly listed as German 125, 126.</td>
<td>Permission of the instructor. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>*333</td>
<td>Nineteenth-Century Theatre</td>
<td>Representative works of the major dramatists of the nineteenth century.</td>
<td>German 226 or equivalent. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>++[336]</td>
<td>The Novelle</td>
<td>Extensive readings in the novelle of the nineteenth and twentieth centuries.</td>
<td>German 226. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>*338</td>
<td>Nineteenth-Century Poetry</td>
<td>Selected poems of the major poets of the nineteenth century.</td>
<td>German 226 or equivalent. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>*347; [348]</td>
<td>The Metaphysical Estrangement of Man in Modern German Literature</td>
<td>Selections from the era of Gerhart Hauptmann's naturalism to that of Heinrich Böll's social criticism will be read and discussed in an attempt to discover the effects that man's metaphysical estrangement has produced upon the individual and upon the society in which he lives. The readings may consist of drama, prose, poetry, or the semester may be spent entirely on one specific genre.</td>
<td>German 226 or equivalent. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>352</td>
<td>The German Novel since the Seventeenth Century</td>
<td>Four novels, one from each century since the seventeenth, and each reflecting the historical, cultural, and intellectual climate of its era, will be studied and discussed in depth.</td>
<td>German 226 or permission of the instructor. Three credit hours.</td>
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<tr>
<td>Course</td>
<td>Title</td>
<td>Description</td>
<td>Prerequisite</td>
<td>Credits</td>
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</table>
| 411     | Teaching of Modern Foreign Languages                                  | Problems and methods of teaching German. Readings, discussions, practice work, and criticism. Some attention is also directed to the FLES program. Counts as three hours in education toward the Maine Secondary School Teaching Certificate. Conducted in English. Nongraded.  
  *Prerequisite:* German 226 or equivalent.  
  *Three credit hours.* | | |
| 411-L   | Language Teaching staff                                               | Directed practice in conduct of introductory language courses. Open to a limited number of students enrolled in German 411. Nongraded.  
  *Two credit hours.* | | |
| 491, 492| Topics in German Literature staff                                     | Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work.  
  *Prerequisite:* Permission of the instructor.  
  *Three credit hours.* | | |
| 493, 494| Seminar in German Literature staff                                    | Topics may vary from year to year, and may cover an author, a genre, or a literary movement. In 1973-74 the topic for 493 will be "Herman Hesse—The Novels"; the topic for 494 will be "Günter Grass."  
  *Prerequisite:* Permission of the instructor.  
  *Three credit hours.* | | |

### Government

#### IN THE DEPARTMENT OF HISTORY AND GOVERNMENT

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
</table>
| 131, 132| An Introduction to a Study of the Political Order                      | An introduction to thought about the art and science of politics and to diverse forms of political action. Each instructor approaches politics in terms of a different problem. A description of the work for each section is available at registration. Students may not study with the same instructor more than one semester.  
  *Open to freshmen only.*  
  *Three credit hours.* | | |
| 135     | Introduction to the Traditional Political Systems of East Asia        | An analysis of the political institutions of China and Japan in the premodern period. These will be explored as examples of political structures which evolved almost entirely outside of western influence and as systems which continue to be factors in the shaping of modern East Asian politics and institutions.  
  *Three credit hours.* | | |
<p>| 136     | The Chinese Revolution                                                | China will be used as a case study to explore the following questions: conditions under which a political system survives or | | |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Prerequisite</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>233</td>
<td>Theories of Comparative Government</td>
<td>MR. SACKS</td>
<td>Government 233 or equivalent, or permission of the instructor</td>
<td>Three</td>
</tr>
<tr>
<td>234</td>
<td>European Politics</td>
<td>MR. SACKS</td>
<td></td>
<td>Three</td>
</tr>
<tr>
<td>239</td>
<td>Politics and Government in the People's Republic of China</td>
<td>MISS ROSEN</td>
<td>Britain, France, and West Germany viewed in terms of the relationship between political culture and political structure.</td>
<td>Three</td>
</tr>
<tr>
<td>257</td>
<td>The American Presidency</td>
<td>MR. MAISEL</td>
<td>The political process as it operates in a revolutionary regime.</td>
<td>Three</td>
</tr>
<tr>
<td>258</td>
<td>The American Congress</td>
<td>MR. MAISEL</td>
<td>The growth, scope, and limitations of the powers of the federal executive in American politics.</td>
<td>Three</td>
</tr>
<tr>
<td>314</td>
<td>American Constitutional Law</td>
<td>MR. MAVRINAC</td>
<td>The United States Supreme Court and constitutional litigation as part of the American political process.</td>
<td>Three</td>
</tr>
<tr>
<td>321, 322</td>
<td>Political Theory</td>
<td>MR. MAVRINAC</td>
<td>Some of the principal western approaches to the nature of the political order, with emphasis on the historical delineation of the fundamentals of constitutional theory.</td>
<td>Three</td>
</tr>
</tbody>
</table>
**333**  
**Totalitarian Government and Politics**  
**Mr. Mavrincac**  

The ideological framework, organization, operation, and evolution of such political institutions as those of the Communist world, Nazi Germany, and Fascist Italy, with major attention given to the USSR. *Three credit hours.*

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**335**  
**International Relations**  
**Mr. Weissberg**  

Principles of international politics, stressing such topics as the balance of power, collective security, diplomacy, and nationalism. *Three credit hours.*

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†[336]  
**International Organization**  

The structure, politics, and current operation of international organizations within the nation-state system, with particular emphasis on the United Nations. *Three credit hours.*

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**338**  
**International Law**  
**Mr. Weissberg**  

The body of rules and principles of behavior which govern states in their relations with each other, as illustrated in cases and texts. *Three credit hours.*

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[352]  
**German Politics**  

The political institutions of the German Federal Republic (West Germany). The course will also deal with politics during the Weimar and Hitler periods but will emphasize contemporary Germany. *Three credit hours.*

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[355]  
**Political Behavior**  

The relationship between citizens and their government, emphasizing the behavior of interest groups and others who organize to affect governmental action. The relationship between individual citizens and the government will also be discussed. *Three credit hours.*

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**356**  
**Parties and the Electoral Process**  
**Mr. Maisel**  

An analysis of partisan politics and elections, emphasizing the role of parties, and dealing with candidates, their staffs, the electorate, and the media. *Three credit hours.*

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**357**  
**French Politics**  
**Mr. Sacks**  

An analysis of the fundamentals of French politics. *Three credit hours.*

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†[358]  
**British Politics**  

An analysis of the political institutions of Great Britain and Northern Ireland, with some attention to current problems, such
<table>
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<tr>
<th>Course Code</th>
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<th>Instructor</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>371</td>
<td>East Asian Political Thought</td>
<td>Miss Rosen</td>
<td>Analysis of works by leading political thinkers of China from Confucius to Mao Tse-tung and of Japan in the nineteenth and twentieth centuries. Three credit hours.</td>
</tr>
<tr>
<td>376</td>
<td>Chinese Foreign Policy</td>
<td>Miss Rosen</td>
<td>An examination of the foreign policies of the People's Republic of China in terms of the interplay of national interests, ideology, and the revolutionary experience of the Chinese Communist Party. The underlying assumptions and objectives of Chinese policy towards the United States, the Soviet Union, and Africa will be particularly explored. Open to sophomores with permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>[377]</td>
<td>Special Problems in Local Government</td>
<td></td>
<td>Problems vary from year to year, but the general orientation is to a theoretical consideration of the local government process as a part of the general political process in a society. Generally, the constitutional society is the point of reference, and the comparative experience of America, England, and France is emphasized. From time to time, consideration is given to the analogous problem in the totalitarian society. Three credit hours.</td>
</tr>
<tr>
<td>391</td>
<td>Public Administration</td>
<td></td>
<td>The politics of American bureaucracy, centering on the bureau chief and his relationships with other components of our political system: the president and his supporting staff; the congress and its committees; the courts; interest groups; parties; and the communications media. Three credit hours.</td>
</tr>
<tr>
<td>393</td>
<td>State and Local Government</td>
<td>Mr. Farr</td>
<td>The evolution of the federal system, with particular emphasis on current intergovernmental programs together with a comparative analysis of state and local governments, their organizational patterns and political climates. Formerly listed as Government 392. Three credit hours.</td>
</tr>
<tr>
<td>[398]</td>
<td>Comparative Foreign Policies</td>
<td></td>
<td>Comparative study of the impact of institutional structures, ideology, various definitions of national aims, and competing military, intelligence, and diplomatic institutions on the formation of foreign policy and the international behavior of the major powers. Three credit hours.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
<td>Description</td>
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<tr>
<td>414</td>
<td>Seminar in Comparative Politics</td>
<td>MR. SACKS</td>
<td>A comparative analysis of the political &quot;machine&quot; phenomenon in the United States, Europe, and the Third World, with a view towards generating and evaluating comparative propositions about this form of political life. Three credit hours.</td>
</tr>
<tr>
<td>435</td>
<td>Seminar in American National Government and Politics</td>
<td>MR. MAISEL</td>
<td>The American national government as organization and process, and the elements of national political life. Prerequisite: Permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>[438]</td>
<td>Seminar in Contemporary Political Problems</td>
<td></td>
<td>An examination of the relationship between the government and the press in the United States today. Prerequisite: Permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>457</td>
<td>Foreign Policy of the United States</td>
<td>MR. WEISSBERG</td>
<td>Problems of planning and executing American foreign policy. Prerequisite: Government 335 or equivalent or permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>*458</td>
<td>Seminar on the United Nations</td>
<td>MR. WEISSBERG</td>
<td>Conducted in the form of a political or judicial organ of the United Nations. Case studies will be presented and analyzed, each participant assuming the role of a representative of the nation-state which is involved in the dispute. In 1973-74, this seminar will focus on the International Court of Justice. Prerequisite: Permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>476</td>
<td>Seminar in East Asian Government</td>
<td>MISS ROSEN</td>
<td>Problems in the political thought and institutions of China. The general topic to be explored each year will be chosen jointly by participating students and the instructor. Prerequisite: At least one course on China or permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>491, 492</td>
<td>Topics in Government</td>
<td>STAFF</td>
<td>A study of government through special topics. Prerequisite: Government major and special permission of the department chairman. Three credit hours.</td>
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</tbody>
</table>
# Greek

## IN THE DEPARTMENT OF CLASSICS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111, 112</td>
<td>Elementary Greek</td>
<td>Mrs. Koonce and Mr. Westervelt</td>
<td>Readings in Homer's <em>Iliad</em>. <em>Four credit hours.</em></td>
</tr>
<tr>
<td>131</td>
<td>Introduction to Greek Literature I</td>
<td>Mr. Westervelt</td>
<td>Further readings in Homer. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>132</td>
<td>Introduction to Greek Literature II</td>
<td>Mrs. Koonce</td>
<td>Plato: <em>Apology, Crito</em>, selections from the <em>Phaedo</em>. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><em>351</em></td>
<td>Greek Literature</td>
<td>Mr. Howard</td>
<td>Thucydides. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><em>352</em></td>
<td>Greek Literature</td>
<td>Mrs. Koonce</td>
<td>Sophocles. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><em>353</em></td>
<td>Greek Literature</td>
<td>Mrs. Koonce</td>
<td>Demosthenes. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><em>354</em></td>
<td>Greek Literature</td>
<td></td>
<td>Euripides. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><em>355</em></td>
<td>Greek Literature</td>
<td></td>
<td>Herodotus. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><em>356</em></td>
<td>Greek Literature</td>
<td></td>
<td>Plato. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[413]</td>
<td>Seminar</td>
<td></td>
<td>Aeschylus. <em>Three credit hours.</em></td>
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</tbody>
</table>
Aristophanes. *Three credit hours.*

Reading in a field of the student's interest, with essays and conferences. *One to three credit hours.*

**History**

*IN THE DEPARTMENT OF HISTORY AND GOVERNMENT*

**131, 132**

**INTRODUCTION TO HISTORY**

The several sections provide varied approaches to methods of historical analysis. Recent examples have been: dynamics of revolution; humanism; twentieth-century France; modern Europe; contemporary American society. A description of work proposed for each section is available at registration. Limited to freshmen. *Three credit hours.*

**133, 134**

**INTRODUCTION TO THE HISTORY OF EAST ASIA**

Selected problems in the premodern and modern history of China and Japan, which may include: continuity and change in a traditional society; the intellectual dimension of culture; the integrative factors of a period in history; cross-cultural encounters; reform and revolution. *Three credit hours.*

**221, 222**

**HISTORY OF EAST ASIAN CIVILIZATION**

The interaction of cultures in East Asia. First semester: the traditional civilization in China and Japan, with some attention to peripheral areas. Second semester: Chinese and Japanese reactions to western stimuli in the nineteenth and twentieth centuries, the problems of wealth and power, and the trials of revolution and war. *Three credit hours.*

**223, 224**

**SURVEY OF UNITED STATES HISTORY**

United States history from the Age of Discovery to the present. Although chronological symmetry is maintained, an effort is made to demonstrate the particular value of political, economic, and constitutional interpretations. Open to a limited number of freshmen. Formerly listed as History 281, 282. *Three credit hours.*

**231**

**MEDIEVAL CIVILIZATION, 476-1300**

Medieval civilization from the decline of Roman unity to the beginnings of the Renaissance. Emphasis will be placed on both western and nonwestern (Byzantine and Moslem) influences in
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Instructor</th>
<th>Credit Hours</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>[232]</td>
<td>Renaissance and Reformation, 1300-1648</td>
<td>Mr. Berschneider</td>
<td>Three</td>
<td>Intellectual and cultural history of the period of transition from the “first Europe” of Christendom to the “second Europe” of sovereign, independent states. Three credit hours.</td>
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<tr>
<td>237</td>
<td>The Emergence of Modern Britain, 1688-1867</td>
<td>Mr. Gillum</td>
<td>Three</td>
<td>England during the American, French, and Industrial Revolutions. Three credit hours.</td>
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<tr>
<td>238</td>
<td>Britain since 1867</td>
<td>Mr. Gillum</td>
<td>Three</td>
<td>Britain from the Age of Imperialism through the era of World Wars, and to the dissolution of the Empire. Three credit hours.</td>
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<tr>
<td>271</td>
<td>Presidential Elections and the American Economy, 1952-1972</td>
<td>Mr. Bridgman</td>
<td>Three</td>
<td>The anatomy of selected presidential campaigns; the evolution of the economic state as compared to the political state. Emphasis will be placed on cultural interpretations. Three credit hours.</td>
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<tr>
<td>297</td>
<td>Black History I</td>
<td>Mr. Foner</td>
<td>Three</td>
<td>The history of the Black American and race relations from the African background to the 1850’s. Three credit hours.</td>
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<tr>
<td>298</td>
<td>Black History II</td>
<td>Mr. Foner</td>
<td>Three</td>
<td>The history of the Black American and race relations from the 1850’s through the Progressive Era, stressing emancipation, reconstruction, the New South, the Du Bois-Washington conflict, the Niagara Movement, and the rise of the NAACP. Three credit hours.</td>
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<tr>
<td>[311]</td>
<td>Tutorial in History</td>
<td></td>
<td>One to three</td>
<td>Individual work in history, especially for juniors, built around weekly one-hour tutorial sessions between each tutee and the instructor. Enrollment limited to six students. Prerequisite: Permission of the instructor. One to three credit hours by prior arrangement.</td>
</tr>
<tr>
<td>[323, 324]</td>
<td>European Diplomatic History</td>
<td></td>
<td></td>
<td>Diplomacy, its methodology and history. The first semester will examine the development of the modern European state system and the diplomatic relations which existed among the major powers from 1815 to ca. 1875. The second semester will empha-</td>
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</tbody>
</table>
size the extension of this system throughout the world in the development and waning of European hegemony from ca. 1875 to ca. 1945. Comparisons will be drawn between what purports to be the "old diplomacy" and the "new diplomacy" in the establishment of "concerts of power" for the maintenance of "peace."

Prerequisite: One year course or equivalent in history or government or permission of the instructor. Three credit hours.

*331
THE BRITISH EMPIRE AND COMMONWEALTH
MR. GILLUM

A history of the British Empire after the American Revolution, the governmental and economic development of the Empire, and its evolution into the modern Commonwealth of Nations.

Prerequisite: One year course or equivalent in history or permission of the instructor. Three credit hours.

*334
MEDIEVAL ENGLAND: THE ORIGINS OF THE COMMON LAW
MR. GILLUM

English history, from the Saxon invasion to 1485, as a background to the development of the principles of the Common Law. Open to sophomores by permission. Three credit hours.

†[337]
TUDOR-STUART ENGLAND

The contest of religious doctrines and the conflict of political concepts, from the Renaissance monarchy of Henry VII to the "Glorious Revolution" of 1688. Open to sophomores by permission. Three credit hours.

†[341], 342
HISTORY OF RUSSIA AND THE USSR

The expansion of the Russian state and the political and social development of the Russian people under the Tsarist and Soviet regimes. In 1973-74, 342 may be taken without 341.

Prerequisite: One year course or equivalent in history or government or permission of the instructor. Three credit hours.

*351
INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE
MR. BERSCHNEIDER

The changing ideas of history expressed by representative speculators from Hegel to Heidegger, and the effect of these ideas on the development of modern ideologies and the conflict in cultural values which might explain what has often been called "the crisis of our age."

Prerequisite: One year course or equivalent in history or permission of the instructor. Three credit hours.

[353]
MODERN FRANCE

The theme of "Liberalism and the Challenge of Fascism" will be presented in analyzing and evaluating the currents of thought and action which have given character to republicanism in modern France.
**Prerequisite:** One year course or equivalent in history or permission of the instructor. *Three credit hours.*

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>[354]</td>
<td>The French Revolution and Napoleon</td>
<td>European history from 1789 to 1815, with emphasis on political and social developments in France. Formerly listed as History 372. <strong>Prerequisite:</strong> One year course or equivalent in history or government or permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[356]</td>
<td>Modern Germany</td>
<td>The governmental and economic development and the international influence of Germany from 1848 to the present time. Formerly listed as History 375. <strong>Prerequisite:</strong> One year course or equivalent in history or government or permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[359]</td>
<td>Modern Japanese History</td>
<td>The history of Japan from ca. 1800 to the present day, concentrating on problems of historiography and ideology. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>363, 364</td>
<td>Cultural History of Japan</td>
<td>First semester: from the origins of the Japanese people to the collapse of the Ashikaga Shogunate at the end of the fifteenth century. Second semester: the period of the Country at War, the reunification of Japan at the end of the sixteenth century, and Japan's progress in the Tokugawa realm of peace and seclusion. Institutional history is not neglected, but concentration is on the literary, religious, and artistic manifestations of Japanese culture. Much emphasis is placed upon such special topics as the history of medieval Buddhism, the confrontation of Japanese and Jesuit, and the history of the Tokugawa popular theatre. Augmented credit possible, with permission of the instructor, for students with reading knowledge of Japanese. <em>Three or four credit hours.</em></td>
</tr>
<tr>
<td>[373]</td>
<td>The Young Industrial State, 1877-1932</td>
<td>The course of American ideology during the first era of apparently fullblown industrial development, from the end of the Reconstruction period to that of the Great Depression. Concentration upon such matters as urbanization, unions, errant populist movements, and the emergent nativism, with emphasis upon cultural interpretations. <em>Three credit hours.</em></td>
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<tr>
<td>Course Code</td>
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<tr>
<td>374</td>
<td>Contemporary America, 1929 to Present Mr. Bridgman</td>
<td>The United States from the onset of the Great Depression to the present, integrating social, economic, and political interpretations of this period. Three credit hours.</td>
</tr>
<tr>
<td>375</td>
<td>American Colonial History</td>
<td>The period of European colonization of North America and of the emergence of the American social and political &quot;system&quot; of 1776 and 1787 that prefigures the United States of the nineteenth and twentieth centuries. Three credit hours.</td>
</tr>
<tr>
<td>376</td>
<td>The Era of the American Revolution, 1763-1789</td>
<td>Interpretations of the coming of the Revolution, the Declaration of Independence, the War, the Articles of Confederation, and the Constitution. Foundations of American institutions and traditions are viewed. Three credit hours.</td>
</tr>
<tr>
<td>377</td>
<td>Historical Introduction to American Studies: The United States, 1824-1850 Mr. Foner</td>
<td>Jacksonianism, the rise of the Whig Party, the plantation system, the institution of slavery, abolitionism, women's rights, urbanism, and Manifest Destiny. Social and intellectual developments will be examined together with political and economic issues. Changing interpretations of historians will also be investigated. Prerequisite: Concurrent enrollment in English 337d1. Open to sophomore majors in American studies. Three credit hours.</td>
</tr>
<tr>
<td>378</td>
<td>The United States, 1850-1880 Mr. Foner</td>
<td>Political, economic, and social developments, including such subjects as disunion and reunion, the Gilded Age, the intellectual and social responses to industrialization and urbanization. Prerequisite: One year course in history or equivalent or permission of the instructor. Three credit hours.</td>
</tr>
<tr>
<td>*391d2</td>
<td>The American Civil War Mr. Raymond</td>
<td>The origins and the military and political history of the Civil War from about 1850 to 1865. Three credit hours.</td>
</tr>
<tr>
<td>394</td>
<td>The American South, 1801-1861 Mr. Bridgman</td>
<td>The American south and its peculiar institutions. An effort is made to illustrate how this area accomplished a partial transition from agrarianism to industrialism. Formerly listed as History 393. Three credit hours.</td>
</tr>
<tr>
<td>†395</td>
<td>The Early National Republic, 1801-1845</td>
<td>The United States during a foreshortened half-century of its evolution, concentrating on such subjects as the two-party system, the westward movement, the States Rights mannerism, and the dogma of Manifest Destiny. Considerable reliance is placed upon politic, contemporaneous observers such as Harriet Marti-</td>
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neau, James Cooper, Mrs. Frances Trollope, and Michel Chevalier, with emphasis upon cultural and social interpretation. *Three credit hours.*

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<th>Course Code</th>
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<tbody>
<tr>
<td>399</td>
<td>Black History III</td>
<td>Mr. Foner</td>
<td>The history of the Black American and race relations from World War I to 1965, stressing the great migration, the Red Summer of 1919, the Garvey Movement, the Harlem Renaissance, Blacks and the New Deal and World War II, and the postwar protest and civil rights movements. <em>Prerequisite:</em> History 297, 298 or permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[416]</td>
<td>Seminar in American History</td>
<td></td>
<td>Special topics in American history. <em>Prerequisite:</em> Permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[418]</td>
<td>Seminar in European History</td>
<td></td>
<td>Methods of research and a critical study of sources and documents in the history of the Crusades. <em>Prerequisite:</em> Permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>432</td>
<td>Seminar in Black History</td>
<td>Mr. Foner</td>
<td>Group discussion and individual reports based on readings and research on selected topics in Black history from 1965 to the present, including current ideologies and activities in the Black community. <em>Prerequisite:</em> Permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>[433]</td>
<td>Seminar in English History</td>
<td></td>
<td>Reading and research on various topics in English history, with special attention devoted to political history in the nineteenth or twentieth centuries. <em>Prerequisite:</em> Permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>491, 492</td>
<td>Topics in History</td>
<td>Staff</td>
<td>A study of history through special topics. <em>Prerequisite:</em> History major and permission of the department chairman. <em>Three credit hours.</em></td>
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**Italian**

**IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES**

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<th>Course Code</th>
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<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>[211]</td>
<td>Dante</td>
<td></td>
<td><em>The Divine Comedy</em> and <em>The New Life</em>, in English translation. No knowledge of Italian is required.</td>
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</tbody>
</table>
**Japanese**

**IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>111, 112</td>
<td><strong>Elementary Japanese</strong></td>
<td>Introduction to the modern language, with practice in reading, conversation, and writing. Use of taped materials in the language laboratory is a regular part of the class work. <em>Four credit hours.</em></td>
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</table>
| 113, 114    | **Intermediate Japanese**                       | Continued practice in the oral-aural skills. This and the review of grammar are supplemented by language laboratory and language tables.  
*Prerequisite:* Japanese 112 or equivalent. *Four credit hours.*                                                                 |
| 131         | **Introduction to Japanese Culture**            | An introduction to Japanese culture through critical reading (in translation) of selected literary works of a given period. No knowledge of Japanese required.  
*Prerequisite:* Enrollment in the Center for Coordinated Studies or permission of the instructor. *Three credit hours.*                                                                                     |
| 152         | **The Modern Japanese Novel in Translation**    | Study of the major Japanese novelists: Tanizaki, Kawabata, Dazai, Mishima, and others. Special attention given to the development and amalgamation of “western” and more purely “Japanese” fictional techniques. *Three credit hours.*                                                                 |
| 153         | **An Introduction to Early Chinese and Japanese Literatures in Translation** | Representative works of prose, poetry, and theatre from the classical periods of Chinese and Japanese literatures. Topics may include Chinese poetry, the classical Japanese novel, the Japanese No drama, the popular Chinese novel and popular Japanese fiction, poetry (the haiku and comic linked verse), and drama. *Three credit hours.* |
| 491, 492    | **Topics in East Asian Literature and Language** | Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work.  
*Prerequisite:* Permission of the instructor. *Two to four credit hours.*                                                                                             |

*Prerequisite:* Completion of a semester course in literature at the college level. *Three credit hours.*
Latin

IN THE DEPARTMENT OF CLASSICS

11, 112

INTRODUCTORY LATIN
MR. HOWARD AND MR. WESTERVELT

First semester: intensive elementary Latin. Second semester: selected readings from Latin authors. Four credit hours.

13, 14

INTERMEDIATE LATIN
MR. HOWARD AND MRS. KOONCE

First semester: Catullus. Second semester: one play of Terence. Prerequisite: At least three years of high-school Latin. Three credit hours.

[131]

INTRODUCTION TO LATIN LITERATURE

Plautus. Three credit hours.

[351]

LATIN LITERATURE

Lucretius. Three credit hours.

[352]

LATIN LITERATURE

Livy. Three credit hours.

[353]

LATIN LITERATURE

Roman elegy. Three credit hours.

[354]

LATIN LITERATURE

Cicero: selected speeches. Three credit hours.

*355

LATIN LITERATURE
MR. HOWARD

Roman satire. Three credit hours.

*356

LATIN LITERATURE
MR. HOWARD

Cicero: letters. Three credit hours.

[357]

LATIN LITERATURE

Horace: Odes and Ars Poetica. Three credit hours.
[358] **Latin Literature**

Tacitus. *Three credit hours.*

[359] **Latin Literature**

Virgil: *Eclogues* and *Georgics.* *Three credit hours.*

[371] **Latin Literature**

Terence. *Three credit hours.*

†[414] **Seminar**

Virgil: *Aeneid.* *Three credit hours.*

491, 492 **Independent Reading in Latin Literature**

Reading in a field of the student’s interest, with essays and conferences. *One to three credit hours by prior arrangement.*

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**Mathematics**

113d **Linear Algebra**

Basic concepts and techniques of higher algebra that will be useful to nonmajors as well as majors in mathematics. Systems of equations and matrices are used as vehicles for this study. *Three credit hours.*

121d **Calculus I**

Elementary differential and integral calculus. *Three credit hours.*

122d **Calculus II**

Further study of differential and integral calculus, with selected applications. 

*Prerequisite:* Mathematics 121d. *Four credit hours.*

212d **Calculus III**

A continuation of Calculus II. 

*Prerequisite:* Mathematics 122d. *Four credit hours.*

241, 242 **Elementary Statistics**

First semester: descriptive statistics; elementary probability theory; binomial and normal distributions; elementary sampling theory; tests of hypothesis; confidence intervals; nonparametric
statistics; correlation. Applications are emphasized. Second semester: continuation, including regression, analysis of variance, and time series. Neither course open to mathematics majors.

*Prerequisite:* Mathematics 121d. 241: four credit hours; 242: two credit hours.

**243, 244**

**Finite Mathematics**

MRS. ZUKOWSKI

Selected topics from modern mathematics useful in the biological and social sciences; including probability, elements of modern algebra, and an introduction to linear programming and the theory of games. Statistics is not treated but is offered in other courses. Not open to mathematics majors.

*Prerequisite:* Mathematics 113d or 121d. Three credit hours.

**311d**

**Differential Equations**

**Instructor**

Solutions of elementary differential equations and an introduction to partial differential equations.

*Prerequisite:* Mathematics 212d. Three credit hours.

**314**

**Topics in Analysis**

Solutions of differential equations, including Bessel's, by series; Fourier series; the vibrating string problem; the operator del and the integral theorems; and finite differences.

*Prerequisite:* Mathematics 311. Two credit hours.

**316**

**The Laplace Transform**

Theory and applications of the Laplace transform.

*Prerequisite:* Mathematics 311. One credit hour.

**332**

**Introductory Numerical Analysis and Programming**

**Instructor**

Solution by numerical methods of linear and nonlinear equations, systems of equations, and differential equations; numerical integration; polynomial approximation; matrix inversion; error analysis. A time-sharing computer system will be used to solve problems.

*Prerequisite:* Some programming experience, Mathematics 113d and 212d or permission of the instructor. Three credit hours.

**352**

**Complex Variables**

MR. COMBELLACK

The arithmetic and calculus of complex numbers. The basic properties of analytic functions, including an introduction to residues and conformal mapping.

*Prerequisite:* Mathematics 212d. Three credit hours.

**361, 362**

**Higher Algebra**

MRS. ZUKOWSKI

Introduction to algebraic structures such as groups, rings, integral domains, fields, and related topics; further study of linear algebra.

*Prerequisite:* Mathematics 113d and 122d. Three credit hours.
Mathematical Statistics

Random variables; special probability distributions; moment generating functions; maximum likelihood estimators; sampling distributions; regression; tests of hypotheses; confidence intervals; linear models; analysis of variance. Although applications are discussed, emphasis is on theory.

Prerequisite: Mathematics 212d. Three credit hours.

Advanced Calculus

More advanced topics of one variable calculus and an introduction to real analysis. Some of the topics included are: equivalence and countability; uniform continuity; summability; limit superior and limit inferior; sequences and series of functions; Weierstrass approximation theorem; Lebesgue measure and integration.

Prerequisite: Mathematics 212d and senior standing or permission of the instructor. Three credit hours.

Introduction to Topology

General topology, including such topics as elementary point set topology, mappings, and metric spaces.

Prerequisite: Mathematics 421, passed or taken concurrently. Three credit hours.

Higher Geometry

Properties of various geometries with emphasis on axiomatic development.

Prerequisite: Mathematics 361, 362. Three credit hours.

Special Topics

Independent study in an area of mathematics of particular interest to the student.

Prerequisite: Mathematics major and permission of the department. Two to four credit hours.

Modern Foreign Languages

Independent study of a critical language, involving weekly tutorial sessions with a native speaker of the language. Final course evaluation made by resident faculty member or by visiting faculty member from a college or university where the language is taught regularly. In 1972-73, Chinese and Swahili were offered. Possible offerings for 1973-74, depending upon demand, include Chinese, Swahili, and Portuguese.
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<th>Course Code</th>
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<tbody>
<tr>
<td>193, 194</td>
<td>Critical Languages: Second Level Staff</td>
<td>The continued independent study of one of the critical languages as described above. The successful completion of 194 satisfies the college requirement in foreign language. Credit varies depending on level of attainment. Prerequisite: Modern Languages 191, 192 and permission of the department chairman. Three or four credit hours.</td>
</tr>
<tr>
<td>491, 492</td>
<td>Independent Topics in Modern Languages Staff</td>
<td>Individual projects in language or literature in which the student has demonstrated the interest and competence necessary for independent work. Prerequisite: Permission of the department chairman. Two to four credit hours.</td>
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**Music**

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<tr>
<th>Course Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>123d, 124d</td>
<td>Introduction to Music Staff</td>
<td>Introduction to the western musical tradition and development of perceptive listening through the study of selected works from the Middle Ages to the present. No previous knowledge of music assumed. Formerly listed as Music 141, 142. Three credit hours.</td>
</tr>
<tr>
<td>[132]</td>
<td>Chansons and Lieder</td>
<td>A detailed study of art songs, French chansons, and German lieder, with emphasis given to the songs and song cycles of Schubert, Schumann, Brahms, Mahler, Wolf, Debussy, and contemporary composers. Formerly listed as Music 113. Three credit hours.</td>
</tr>
<tr>
<td>[152]</td>
<td>Topics in Afro-American Music Instructor</td>
<td>Beginning with the music of West Africa, the development of Black music from colonial times to the present, with emphasis on performance practices, instruments utilized, and the ways by which Black life is revealed through music. Three credit hours.</td>
</tr>
<tr>
<td>163, 164</td>
<td>Theory and Practice of Music Staff</td>
<td>Musical notation, clefs, scales, intervals, and chord structure. Ear training stressed through rhythmic, intervallic, and melodic dictation and sight-singing. Melody writing and elementary harmony included. Formerly listed as Music 121, 122. Three credit hours.</td>
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191, 192
Applied Music: Individual Study staff

Instruction in voice and instruments for qualified students. Possible offerings in 1973-74, depending upon demand, include bassoon, clarinet, classical guitar, flute, oboe, organ, piano, trumpet, violin, violoncello, and voice. For additional information concerning fees and related matters, see the applied music statement following Music 491, 492. Interested students should consult the department before registering. May be repeated for additional credit; may not be included in basic 105 graded hours required for graduation. Nongraded.

Prerequisite: Music 163, 164 (may be taken concurrently) and permission of the department. One or two credit hours.

193, 194
Applied Music: Ensemble staff

Optional credit for participation in musical organizations and ensembles, for students of applied music. In addition to the college band, choir, glee club, and symphony orchestra, the department will undertake to form small ensemble groups as the need arises. Interested students should consult the department for additional information before registering for credit. May be repeated for additional credit; may not be included in basic 105 graded hours required for graduation. Nongraded.

Prerequisite: Concurrent enrollment in Music 191, 192 and permission of the department. One credit hour.

†[213]
Medieval Music

Music in Europe through the Romanesque and Gothic Middle Ages, the *Ars Nova*, and Burgundian school. Analyses of such forms as Gregorian chant, liturgical drama, mass, motet, and early secular forms. Studies of transcription of musical manuscripts. Reading knowledge of music required. Formerly listed as Music 115.

Prerequisite: Music 123d, 124d or equivalent. Three credit hours.

*232
Music of the Renaissance
Mr. Armstrong

Music of western Europe in the late fifteenth and sixteenth centuries (Ockeghem to Giovanni Gabrieli), with particular attention to the mass, the motet, the chanson, the madrigal, and instrumental music. Formerly listed as Music 116.

Prerequisite: Music 123d, 124d or equivalent. Three credit hours.

†[234]
Baroque Music

Music in western Europe from Monteverdi to Bach and Handel. Formerly listed as Music 216.

Prerequisite: Music 123d, 124d or equivalent. Three credit hours.
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<tr>
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<th>Description</th>
<th>Prerequisite</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>*252</td>
<td>Romantic Music</td>
<td>Nineteenth-century music from Schubert to Gustav Mahler and Richard Strauss, with special emphasis on instrumental music.</td>
<td>Prerequisite: Music 123d, 124d or equivalent.</td>
<td>Three credit hours</td>
</tr>
<tr>
<td>*254</td>
<td>Contemporary Music</td>
<td>Trends in the art of music following the time of Wagner and the late Romantics. Consideration of varied techniques of twentieth-century composers. Formerly listed as Music 312.</td>
<td>Prerequisite: Music 123d, 124d or equivalent.</td>
<td>Three credit hours</td>
</tr>
<tr>
<td>263, 264</td>
<td>Harmony</td>
<td>Harmonization of given and original melodies; analysis of compositions selected from major composers. Second semester: special emphasis on chromatic chord formations; some keyboard harmony. Formerly listed as Music 221, 222.</td>
<td>Prerequisite: Music 163, 164.</td>
<td>Three credit hours</td>
</tr>
<tr>
<td>†[272]</td>
<td>Counterpoint</td>
<td>A study of the principles of sixteenth-, seventeenth-, and eighteenth-century polyphony. Composition of canons, inventions, and fugues. Analysis of representative works. Formerly listed as Music 215.</td>
<td>Prerequisite: Music 163, 164.</td>
<td>Three credit hours</td>
</tr>
<tr>
<td>†[321, 322]</td>
<td>The Viennese Classicists</td>
<td>A survey of the classical period, with special reference, in the first semester, to the music of Haydn and Mozart; in the second semester, Beethoven and Schubert. Detailed study and analysis of significant symphonies and chamber music.</td>
<td>Prerequisite: Music 123d, 124d or equivalent and 163, or permission of the instructor.</td>
<td>Three credit hours</td>
</tr>
<tr>
<td>*325, 326</td>
<td>Opera and Oratorio</td>
<td>The history and development of opera and oratorio. In the first semester, representative works from Monteverdi to Mozart are studied in detail; in the second semester, emphasis is on operatic and choral works of the Romantic period by Verdi, Wagner, Moussorgsky, and later composers.</td>
<td>Prerequisite: Music 123d, 124d or equivalent and 163, or permission of the instructor.</td>
<td>Three credit hours</td>
</tr>
<tr>
<td>371</td>
<td>Composition</td>
<td>Creative writing for students who wish to apply skills acquired in the study of theory and harmony to the solution of problems of form and style.</td>
<td>Prerequisite: Music 263, 264.</td>
<td>Three or four credit hours</td>
</tr>
</tbody>
</table>
411
Seminar in Music History
Mr. Armstrong

Research and critical analysis in various areas of western music history. Primarily for senior music majors.

Prerequisite: Permission of the instructor. Three or four credit hours.

491, 492
Special Topics
Staff

Individual topics in areas where the student has demonstrated interest and competence necessary for independent work. Primarily for senior music majors.

Prerequisite: Permission of the department. One to four credit hours.

Applied Music

Private lessons in voice and a variety of instruments are available, with or without academic credit, at additional cost. Students of applied music are invited to participate in the college band, choir, glee club, and symphony orchestra, with or without academic credit; small ensembles are also formed from time to time. For information concerning academic credit, see the statements for Music 191, 192 and 193, 194. In the case of Music 191, 192 a fee of $100 is charged for each semester of instruction in a two-credit course; for a one-credit course the fee is $60. Fees are payable on the semester bill. Students are not charged for membership in musical organizations or small ensembles.

All majors are expected to demonstrate some skill at the keyboard before graduation; consult the department. Students not already proficient are urged to remedy this deficiency as soon as possible by enrolling for piano study.

The department reserves some scholarship money to aid talented students of applied music; consult the chairman.

Philosophy

In the Department of Philosophy and Religion

112
Logic
Mr. McArthur

The techniques of formal reasoning and their application to argumentation in ordinary language. Formerly listed as Philosophy 212. Three credit hours.

123, 124
Introduction to Western Philosophy
Mr. Hudson and Staff

Some typical problems in western philosophy. First semester: ethics, theory of knowledge, and philosophy of science. Second semester: social and political philosophy, metaphysics, and philosophy of religion. Three credit hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>211</td>
<td>Moral Philosophy</td>
<td>Mr. Reuman</td>
<td>The bases of judgment on questions of good and bad, right and wrong; the application of ethical principles to questions of political obligations and social values. Three credit hours.</td>
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</tr>
<tr>
<td>*236d1</td>
<td>Social Philosophy</td>
<td>Mr. Reuman</td>
<td>Readings from Plato, Locke, Rousseau, and Marx; their relevance to contemporary problems. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>257</td>
<td>Philosophical Problems in Logic and Mathematics</td>
<td>Mr. McArthur</td>
<td>A treatment of philosophical problems arising from logic and mathematics, e.g., the nature of axiomatic theories, the limitations of the axiomatic method, the nature of logical and mathematical truth, nominalism and realism, and the relation of logic to philosophy. Formerly listed as Philosophy 357. Prerequisite: Philosophy 112 or permission of the instructor. Three credit hours.</td>
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</tr>
<tr>
<td>281, 282</td>
<td>Cultural Euthenics: A New Adam and a New Eden</td>
<td>Mr. Todrank</td>
<td>List as Religion 281, 282 (q.v.). Three or four credit hours.</td>
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</tr>
<tr>
<td>[313]</td>
<td>Aesthetics</td>
<td></td>
<td>Problems that arise in analyses and criticisms of the arts. Prerequisite: Three hours of philosophy or permission of the instructor. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>†[316]</td>
<td>Metaphysics</td>
<td></td>
<td>A contemporary approach to the problem of reality or being and such metaphysical topics as time, space, substance, and causality. Attention also to methods for dealing with metaphysical problems and of validating metaphysical claims. Three credit hours.</td>
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</tr>
<tr>
<td>†[317]</td>
<td>Philosophy of Science</td>
<td></td>
<td>Inductive logic and problems in the philosophy of science. Observation, law, explanation, theory, and associated concepts in the sciences will be considered. Three credit hours.</td>
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</tr>
<tr>
<td>†[319]</td>
<td>Ethics and General Theory of Value</td>
<td></td>
<td>Philosophic approaches to the nature of value, especially ethical judgments. Among the views considered will be intuitionism, emotivism, “good reasons” theory, and those relating to scientific findings. Prerequisite: Philosophy 211 or permission of the instructor. Three credit hours.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>331</td>
<td>History of Ancient Philosophy</td>
<td>Comparative study of the philosophical systems of Plato and Aristotle, with secondary attention to the pre-Socratics, Socrates, Epicurus, the Stoics, and Plotinus. Three or four credit hours.</td>
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<tr>
<td>332</td>
<td>History of Modern Philosophy</td>
<td>European philosophy from Descartes to the nineteenth century, with special attention to the works of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. Three or four credit hours.</td>
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<tr>
<td>333</td>
<td>Philosophy of Education</td>
<td>Philosophical positions held by theorists from Plato to Dewey; primarily for teacher candidates majoring in subjects commonly taught in high schools. Other students may elect this course with permission of the instructor. Three credit hours.</td>
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<tr>
<td>352</td>
<td>American Philosophy</td>
<td>Representative thinkers in each major period and movement in American philosophical thought, and an attempt to relate the teachings of these thinkers to contemporary philosophical, educational, and social issues. Three credit hours.</td>
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<tr>
<td>353</td>
<td>Contemporary Analytic Philosophy</td>
<td>Major figures in the analytic tradition from 1900 to the present, with particular emphasis on Russell, Wittgenstein, and Quine. Prerequisite: Two semester courses in philosophy or permission of the instructor. Three credit hours.</td>
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</tr>
<tr>
<td>[355]</td>
<td>Indian Thought</td>
<td>Types of Indian philosophy of the ancient period. Prerequisite: Two previous semester courses in philosophy and/or religion; no previous Indian thought. Three credit hours.</td>
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</tr>
<tr>
<td>[356]</td>
<td>Indian Thought</td>
<td>Types of Indian philosophy of the modern period. Prerequisite: Two previous semester courses in philosophy and/or religion. Three credit hours.</td>
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<tr>
<td>[359]</td>
<td>Nineteenth-Century Philosophy</td>
<td>Post-Kantian thinkers such as Hegel, Kierkegaard, Schopenhauer, Nietzsche, and Bergson. Special attention to the revolt against reason, evolution, and alienation. Prerequisite: Philosophy 331, 332 or permission of the instructor. Three or four credit hours.</td>
<td></td>
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</tr>
<tr>
<td>372</td>
<td>Philosophy of Religion</td>
<td>Some of the principal philosophical problems concerning the nature and justification of religious belief and experience, problems such as the nature of God, arguments for the existence of</td>
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</tbody>
</table>
God, the problem of evil, mysticism, and the relation of faith and reason.

*Prerequisite:* Religion 121, 122 and one course in philosophy, or permission of the instructor. *Three credit hours.*

<table>
<thead>
<tr>
<th>Course</th>
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<th>Prerequisites</th>
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</tr>
</thead>
<tbody>
<tr>
<td>373</td>
<td>History of Medieval Philosophy</td>
<td>Philosophy 331</td>
<td>History of philosophy from Augustine to Ockham. The principal issue studied is the problem of the reconciliation of faith and reason in the work of the scholastics. <em>Three or four credit hours.</em></td>
</tr>
<tr>
<td>374</td>
<td>Existentialism and Phenomenology</td>
<td>Philosophy 339</td>
<td>A survey of the principal thinkers of twentieth-century existential philosophy, with minor attention to phenomenology. Readings will be from some of the following: Heidegger, Sartre, Jaspers, Marcel, Buber, and Merleau-Ponty. Philosophy 359 is a desirable background but is not required. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>391, 392</td>
<td>Philosophy Seminars</td>
<td>Philosophy 331</td>
<td>Seminars in selected areas of philosophy. In 1973-74, the topics will be: 391, &quot;Plato and Platonism&quot; (Mr. Parker); 392, &quot;Nonviolence&quot; (Mr. Reuman - enrollment limited) and &quot;The Philosophy of Wittgenstein&quot; (Mr. McArthur). Open to majors and nonmajors. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>491, 492</td>
<td>Special Topics</td>
<td>Philosophy 331</td>
<td>Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. <em>Three credit hours.</em></td>
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</tbody>
</table>

**Physical Education**

An historic survey of the art of dance from its primitive ritual beginnings to its development as an art form in western civilization. The course includes lectures, films, an introduction to basic theory, composition, and movement experience. No dance experience necessary. Formerly listed as Physical Education 343, 344.

*Prerequisite:* Permission of the instructor. *Three credit hours.*
### 301, 302
**The Organization and Administration of Physical Education and Athletics**  
Mr. Winkin and Mr. Nelson

Administrative policies, practices, teaching methods, and standards pertaining to the execution of a modern program of physical education and athletics.  
*Prerequisite:* Permission of instructor. *Three credit hours.*

### 323, 324
**Principles and Methods of Physical Education for Secondary Schools**  
Mrs. Bither

Policies, practices, standards, and educational methods to enable students who will be teaching in secondary schools to enable students who will be teaching in secondary schools to teach with physical education and to coach girls’ athletics.  
*Prerequisite:* Permission of the instructor. *Three credit hours.*

### 341, 342
**Modern Dance Composition and Theory**  
Instructor

Compositional problems relating to the theories of various modern dance artists; an introduction to dance notation; a study of the modern dance repertory through films and direct movement experience. May not be included in the basic 105 graded hours required for graduation.  
*Prerequisite:* Physical Education 241, 242 and permission of the instructor. *Three credit hours.*

### 491, 492
**Problems In Dance**  
Instructor

Individual dance problems in areas where the student has the interest and competence to work independently. May not be included in the basic 105 graded hours required for graduation.  
*Prerequisite:* Physical Education 341, 342 and permission of the instructor. *One to three credit hours.*

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**Physics**

**In the Department of Physics and Astronomy**

### 121, 122
**General Physics**  
Mr. Metz

A quantitative introduction to the interpretation of theoretical and experimental problems in the fields of mechanics, electricity and magnetism, relativity, and the physics of atoms and nuclei. Physics 211 may serve as prerequisite for Physics 122. Laboratory. *Four credit hours.*

### 211
**Intermediate Mechanics**  
Mr. Bancroft

An introduction to analytical Newtonian mechanics, emphasizing the application of calculus to the analysis of mechanical systems. Laboratory.  
*Prerequisite:* Physics 121 or permission of the department. Mathematics 122d (may be taken concurrently). Open to fresh-
men with advanced standing in calculus who have had a strong preparation in physics. *Four credit hours.*

‡[212]

**GEOMETRICAL AND PHYSICAL OPTICS**

An introduction to optical instrumentation and to light as a wave phenomenon. The first order theory of geometrical optics is studied in some detail, followed by physical optics, including interference, diffraction, resolving power, and wavelength measurement. Spectroscopic problems and applications of the laser are discussed as class interests dictate. Laboratory.

*Prerequisite:* Physics 121 or 211, Mathematics 122d. *Four credit hours.*

*232

**THERMODYNAMICS**

Mr. Bancroft

Classical concepts of temperature, energy, entropy, heat, and work are developed, with applications chiefly to single component systems. Consideration of topics in kinetic theory and statistical mechanics then leads to demonstration of the connection between atomic theory and thermodynamics. Laboratory. Formerly listed as Physics 331.

*Prerequisite:* Physics 121 or 211, Mathematics 212d (may be taken concurrently). *Four credit hours.*

*311

**ELECTRICITY AND MAGNETISM**

Mr. Dudley

A treatment of electromagnetic phenomena, comprising electrostatics, magnetostatics, circuit theory, and Maxwell's equations. Laboratory. Formerly listed as Physics 321.

*Prerequisite:* Physics 122 and Mathematics 212 (may be taken concurrently). *Five credit hours.*

*332

**ATOMIC AND NUCLEAR PHYSICS**

Mr. Dudley

An intermediate treatment of quantum physics, illustrated by topics in atomic, nuclear, and solid state physics, and emphasizing the experimental evidence for modern theories of the structure of matter. Laboratory.

*Prerequisite:* Physics 211, 311. *Three credit hours.*

[351d]

**ELECTRONICS**

A semi-independent-study laboratory course in electronic principles, circuits, and instrumentation. Open each semester to the limit of available equipment.

*Prerequisite:* Physics 122, Mathematics 121d, and permission of the department. *Two or three credit hours.*

441, 442

**THEORETICAL PHYSICS**

Mr. Dudley and Mr. Meitz

First semester: topics from electrodynamics, relativity, and advanced mechanics; emphasis will be placed on mathematical methods. Formerly listed as Physics 322. Second semester: advanced quantum theory.
**Physics, Portuguese, Psychology**

**[451d]**
**Senior Laboratory**

Experiments drawn mainly from electricity and magnetism, with emphasis on precision and experimental technique.

*Prerequisite:* Physics 332. *Two credit hours.*

**491, 492**
**Topics in Physics**

Topics selected to meet the needs of the individual student. Suggested studies are introductory theoretical physics or special experimental problems, or both.

*Prerequisite:* Junior standing, at least, and permission. *Two to five credit hours.*

---

**Portuguese**

**IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES**

**121d2, †[122]**
**Portuguese as a Second Romance Language**

The spoken and written language of Portugal and Brazil, utilizing previous knowledge of a Romance language. Extensive use is made of taped materials.

*Prerequisite:* Successful completion of intermediate French or Spanish, or indication of equivalent proficiency by placement test. *Four credit hours.*

---

**Psychology**

**111d**
**Introduction to Psychology**

An overview of contemporary psychology, introducing concepts, theories, and methods current in the field. This course is prerequisite to any further work in the department. *Three credit hours.*

**114**
**Quantitative Methods**

Survey and critical evaluation of quantitative methods in psychology; basic statistical principles and techniques of data gathering, processing, and analysis.

*Prerequisite:* Psychology 111d. *Four credit hours.*

**213**
**Motivation**

A theoretical and historical analysis of current research in motivation, focusing on such topics as drive, reinforcement, consummatory behavior, aggression, emotion, sleep, and imprinting.
<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td><strong>Animal and Human Ethology</strong></td>
<td>Behavior from a biological viewpoint: a synthesis of ethology and comparative psychology, tracing developments from Darwin to the present. Topics include &quot;evolution&quot; and &quot;causation&quot; of behavior; cyclical, migratory, territorial, and social behavior. <em>Prerequisite</em>: Two semester courses in biology, and permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><strong>Psychological Tests and Measurements</strong></td>
<td>The theory and problems of psychological measurement, with special emphasis on the construction of psychological tests and their application in research and clinical practice. <em>Prerequisite</em>: Psychology 111d and Psychology 114 or permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><strong>Developmental Psychology</strong></td>
<td>Principles of development from conception through adolescence, examined from biological, sociocultural, and psychodynamic perspectives. <em>Prerequisite</em>: Psychology 111d or permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><strong>Personality and Abnormal Psychology</strong></td>
<td>First semester: problems, theories, and research concerned with the dynamics of behavior. Consideration of both clinical and experimental approaches, with emphasis on major systematic interpretations and current research. Second semester: special emphasis on the dynamics of abnormal behavior. <em>Prerequisite</em>: Psychology 111d. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><strong>Experimental Psychology</strong></td>
<td>Discussion of the planning, execution, and interpretation of research in psychology. <em>Prerequisite</em>: Psychology 111d, Psychology 114 or Mathematics 242, and permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td><strong>Neuropsychology</strong></td>
<td>The study of neural processes underlying experience and behavior; the ways in which the nervous system codes perception, movement, hunger, sleep, sex, apathy, interest, learning, and language. <em>Prerequisite</em>: Two semester courses in psychology, two semester courses in biology, and permission of the instructor. <em>Four credit hours.</em></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>274</td>
<td>Vision and Visual Perception</td>
</tr>
<tr>
<td>†[317]</td>
<td>Seminar in Developmental Psychology</td>
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<tr>
<td>†[331]</td>
<td>Learning</td>
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<tr>
<td>353d</td>
<td>Social Psychology</td>
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<tr>
<td>392d1</td>
<td>History and Systems of Psychology</td>
</tr>
<tr>
<td>472</td>
<td>Senior Seminar</td>
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<tr>
<td>491, 492</td>
<td>Special Topics</td>
</tr>
</tbody>
</table>
### Religion

**IN THE DEPARTMENT OF PHILOSOPHY AND RELIGION**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>21, 122</td>
<td>Introduction to Western Religion</td>
<td>The Judaeo-Christian tradition in historical perspective: basic beliefs, institutions, and movements characteristic of successive epochs, and their influence on western culture. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>217</td>
<td>Religion in America</td>
<td>The beliefs and practices of Protestantism, Catholicism, and Judaism as a background for an exploration of selected issues of current interest in American religion. Three credit hours.</td>
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</tr>
<tr>
<td>218</td>
<td>The Scientific Study of Religion</td>
<td>Methodologies and classical studies in the disciplines of anthropology, sociology, psychology, history of religions, economics, art history, and theology. Enrollment limited. Three credit hours.</td>
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<tr>
<td>223, 224</td>
<td>Biblical Literature</td>
<td>Biblical literature in terms of its historical and cultural context, its original meaning, and its relevance to the contemporary world. The first semester deals with the Old Testament; the second, with the Apocrypha and the New Testament. Three or four credit hours.</td>
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<tr>
<td>281, 282</td>
<td>Cultural Euthenics: A New Adam and a New Eden</td>
<td>First semester: the relationship between the life-style of modern man and the current environmental crisis, and the resulting urgent need for a new &quot;Adam&quot; and a new &quot;Eden.&quot; Second semester: an analysis of some of the economic, political, ethical, and religious aspects of essential reforms to achieve a new era for a new earth. Faculty members from other departments will participate in panel discussions of the basic issues. Formerly listed as Religion 371 and Philosophy 235, respectively. Three or four credit hours.</td>
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<tr>
<td>316</td>
<td>Contemporary Western Theology</td>
<td>A sampling of twentieth-century religious perspectives, including selections from liberal, neoorthodox, existential, secular, radical, and Black theologians, concluding with an examination of process theology and the theology of hope. Prerequisite: Religion 121, 122. Three credit hours.</td>
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<tr>
<td>319</td>
<td>Myth and Ritual</td>
<td>Archaic and primitive myths, with emphasis on creation stories and the rituals of renewal associated with cosmogenic mythology.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
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</tbody>
</table>
| 321, 322    | East Asian and Indian Religions | Mr. Thorwaldsen | History and characteristics of Indian and Oriental religions and Islam. Special attention is given to the Vedanta tradition of Hinduism, Theravada Buddhism, Zen in China and Japan, Sufism in Islam. Formerly listed as Religion 311, 312.  
**Prerequisite:** Permission of the instructor. Three credit hours. |
| 351         | The Book of Job | Mr. Longstaff | The main themes of the narrative and the speeches will be explored with reference to the genre, the original context, and the relevance of the book to contemporary events and problems.  
**Prerequisite:** Religion 121 or 223. Three credit hours. |
| 352         | The Theology of Paul | | Paul's letters, and the controversies which prompted them, will be studied as a basis for understanding Pauline Christianity and its place in the early church.  
**Prerequisite:** Religion 224. Three credit hours. |
| 353         | The Great Prophets of Israel | | An intensive study of several of the Old Testament prophets, their lives, and messages. The course will consider each prophet's impact on his own times, and will raise the question of the importance of prophecy in ancient and modern times.  
**Prerequisite:** Religion 223. Three credit hours. |
| 358         | Jesus of Nazareth | | A critical study of the Gospel materials dealing with the life and teaching of Jesus. Giving attention to method, the course will examine some of the recent literature on the topic.  
**Prerequisite:** Religion 224 and permission of the instructor. Three credit hours. |
| 372         | Philosophy of Religion | Mr. Parker | Listed as Philosophy 372 (q.v.). Three credit hours. |
| 373         | History of Medieval Philosophy | Mr. Thorwaldsen | Listed as Philosophy 373 (q.v.). Three or four credit hours. |
| 391, 392    | Religion Seminars | | Seminars in selected areas of religion. Specific subject matter is announced each year prior to registration. Open to majors and nonmajors. |
**491, 492**  
**Special Topics**  
**instructor**  
Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work.  
*Prerequisite:* Permission of the instructor. *Three credit hours.*

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**Russian**

**In the Department of Modern Foreign Languages**

**111, 112**  
**Elementary Russian**  
**Mr. Kempers**  
Introduction to the language by a modified audio-lingual method, with emphasis on understanding spoken Russian and on reading. Use of taped materials in the language laboratory is a regular part of the class work. *Four credit hours.*

**113, 114**  
**Intermediate Russian**  
**Mr. Kempers**  
Continued study of grammar, with emphasis on understanding spoken Russian and on reading, through the study of short stories and plays. Use of taped material in the language laboratory continues as an integral part of the course.  
*Prerequisite:* Russian 112, or two years of high-school Russian and appropriate score on the placement test. *Four credit hours.*

**225, 226**  
**Advanced Russian**  
**Mr. Kempers**  
Continued work on the language; intensive study of selected works of Russian literature.  
*Prerequisite:* Russian 114 or permission of the instructor. *Three or four credit hours.*

**491, 492**  
**Topics in Russian**  
**Mr. Kempers**  
Individual readings in areas of the student’s major interest.  
*Prerequisite:* Permission of the instructor. *Two to four credit hours.*

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**Sociology**

**‡[112]**  
**Interaction Process Analysis**  
Theories and methods of understanding interpersonal behavior as it occurs in small groups. An attempt to synthesize concepts, theory, and observation of the group.
Prerequisite: Freshman standing and permission of the instructor. Three credit hours.

221E, 222
Principles of Sociology
staff

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. Three credit hours.

331
Contemporary Social Problems
instructor

Analysis of selected problems in contemporary society. Attention given to areas such as urbanization, population, poverty, and the depletion of natural resources. Programs for the alleviation of social problems will be reviewed and evaluated. Three credit hours.

332
Human Ecology
Mr. Doel

The spatial distribution of people and institutions from early societies to the present day. Consideration will be given such topics as “natural regional areas,” urban zone and map theory, individual and institutional competition in space, and factors related to population concentration and environmental relationships. Formerly listed as Sociology 335.

Prerequisite: Sociology 221, 222. Three credit hours.

†[333]
Delinquency and Crime

Delinquency and crime in social and cultural perspective; conditions and situations which encourage antisocial conduct; the philosophy and practice of punishment, and programs for reducing or eliminating delinquency and crime.

Prerequisite: Sociology 221, 222. Three credit hours.

337
The Sociology of Child Development
instructor

The family as transmitter of the culture; relationships between social forces acting upon the family and the socialization process; and relationships between family characteristics, transmission, and socialization.

Prerequisite: Sociology 221, 222. Three credit hours.

352
Race and Minorities
Mr. Doel

Major problems of race and minority groups in the modern world.

Prerequisite: Sociology 221, 222. Three credit hours.

†[353]
Urban Sociology

An eclectic study of the city as a sociological phenomenon: 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. Three credit hours.
Contemporary societies as they relate to ideal-typical models of western technological development. Analysis of social processes effected by the transition from traditionalism to industrialism in newly developing nations.

*Prerequisite:* Sociology 221, 222. Three credit hours.

Introductory anthropology, with special emphasis on the implications of the social and cultural experiences of primitive people for modern society.

*Prerequisite:* Sociology 221, 222. Three credit hours.

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. Three credit hours.

Social classes of North America, as portrayed through the literature of community studies. Emphasis will center on the culture of the middle class, and on students' own experiences in the socialization process. Formerly listed as Sociology 371.

*Prerequisite:* Sociology 221, 222. Three credit hours.

The variety of basic research methods and techniques employed by sociologists. The reciprocal relation between theory and research, research design, sampling, scaling, and techniques for data collection are among the major topics studied. Second semester: prime focus directed at analysis and evaluation of existing sociological research. Students will also have the opportunity to design and execute a limited piece of individual research.

*Prerequisite:* Sociology 221, 222; permission of the instructor required for 382. Three credit hours.

Although an historical approach is used at times, this course is primarily theoretical. The mechanisms, functions, and the consequences of social change. Particular attention is given to the relevance of social change for the social order. Formerly listed as Sociology 392.

*Prerequisite:* Sociology 221, 222. Three credit hours.

Utilizing an historical perspective and sociological orientation, this course will examine the existing and empirical data and theoretical concepts dealing with the behavior of people in business and other organizations.
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>401, 402 Sociology Seminar</td>
<td>Major problems of sociology as a science. Much of the work is devoted to individual projects developed from group discussions. <em>Prerequisite:</em> Senior standing and permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>411 Normative Social Theory</td>
<td>Normative social theory, with special emphasis upon such works as Plato’s <em>Republic</em>, Owen’s <em>A New View of Society</em>, and Bellamy’s <em>Looking Backward</em>. <em>Prerequisite:</em> Sociology 221, 222. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>412 History of Sociological Theory</td>
<td>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 is emphasized. <em>Prerequisite:</em> Sociology 221, 222. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>416 Special Topics</td>
<td>Topics in selected areas of sociology. Specific subject matter is announced each year prior to registration. <em>Prerequisite:</em> Senior standing and permission of the instructor. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>491, 492 Topics in Sociology</td>
<td>Individual topics in areas where the student has demonstrated interest and competence necessary for independent work. <em>Prerequisite:</em> Senior standing and permission of the department. <em>Two to four credit hours.</em></td>
</tr>
</tbody>
</table>

A course which seeks to shed light on the plight of contemporary man through the examination of the various instances of collective behavior — crowds, masses, publics, and social movements — and the forces which mold each. Consideration is given also to public opinion, propaganda, communication and the major mass media, and their function in modern society.

*Prerequisite:* Sociology 221, 222. *Three credit hours.*

Note: This course may be offered cooperatively with Administrative Science 413. A student may not receive credit for both Sociology 393 and Administrative Science 413.

Psychology 353d, *Social Psychology*, is also applicable toward fulfillment of the major in sociology (see psychology listings for description of this course). *Three credit hours.*
Spanish

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

Unless otherwise specified, all courses numbered above 114 are conducted in Spanish.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111, 112</td>
<td>Elementary Spanish</td>
<td>Staff</td>
<td>Introduction to the language by an audio-lingual method, with emphasis on understanding, speaking, and reading. Use of taped materials in the language laboratory is a regular part of the class work. Four credit hours.</td>
</tr>
<tr>
<td>113, 114</td>
<td>Intermediate Spanish</td>
<td>Staff</td>
<td>Continued practice in the oral-aural skills, with increasing emphasis on reading and writing through use of reading from Spanish and Latin-American literature. Studies and grammar review supplemented with drill work in the laboratory. Prerequisite: Spanish 112 or two years of high-school Spanish and appropriate score on the placement test. Three credit hours.</td>
</tr>
<tr>
<td>115d</td>
<td>Spoken Spanish</td>
<td>Mr. Cauz</td>
<td>The theory and practice of Spanish pronunciation. Supplementary drills and exercises in the language laboratory. Does not fulfill language requirement. Nongraded. Prerequisite: Spanish 112 or equivalent. Two credit hours.</td>
</tr>
<tr>
<td>125, 126</td>
<td>Introducción Al Mundo Hispanico</td>
<td>Staff</td>
<td>The Hispanic tradition reflected in the works of major figures of Spain and Latin America. In-depth study of selected works with collateral readings. Prerequisite: Spanish 114. Three credit hours.</td>
</tr>
<tr>
<td>131d</td>
<td>Advanced Spanish</td>
<td>Mr. Pérez</td>
<td>An advanced review of grammar, with practice in written composition. Prerequisite: Spanish 114 or equivalent. Three credit hours.</td>
</tr>
<tr>
<td>221, 222</td>
<td>Contemporary Latin-American Literature</td>
<td>Mr. Holland</td>
<td>The development of Latin-American literature from the Modernistas through the contemporary period. Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>257</td>
<td>The Generation of 1898</td>
<td>Mr. Cauz</td>
<td>The more important members of the generation of 1898, with emphasis on Unamuno, Azorín, Baroja, Valle-Inclán, and Machado. Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
<td>Prerequisite</td>
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</tr>
<tr>
<td>271d</td>
<td>Protesta Y Violencia</td>
<td>An exploration and analysis of Hispanic literature of social protest and its violent manifestations.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>272</td>
<td>Latinoamérica: El Indio Y El Negro</td>
<td>The portrayal of the Indian and the Black in contemporary Latin-American literature.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>315</td>
<td>La España de Galdós</td>
<td>A panorama of nineteenth-century Spain seen through the novelist-istic documentation of Benito Pérez Galdós.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>351</td>
<td>The Theatre of the Golden Age</td>
<td>The theatre of the Golden Age, with emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcón, and Calderón de la Barca.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>352</td>
<td>The Novel of the Golden Age</td>
<td>The novel of the Golden Age, with particular attention to the picaresque novel, the Novelas Ejemplares, and Don Quijote of Cervantes.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>355</td>
<td>Spanish Drama and Poetry of the Nineteenth Century</td>
<td>Spanish poetry and drama in the nineteenth century, with emphasis on the more important Romantic and realistic dramatists and poets.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>356</td>
<td>Nineteenth-Century Spanish Novel</td>
<td>Major novelists of the nineteenth century, with special emphasis on Valera, Pereda, Galdós, and Pardo Bazán.</td>
<td>Prerequisite: Spanish 126. Three credit hours.</td>
</tr>
<tr>
<td>411</td>
<td>Teaching of Modern Foreign Languages</td>
<td>Problems and methods of teaching Spanish. Readings, discussions, practice work, and criticism. Some attention is also directed to the fles program. Counts as three hours in education toward the Maine Secondary School Teaching Certificate. Conducted in English. Nongraded.</td>
<td>Prerequisite: Six hours of Spanish beyond 126. Three credit hours.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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<td></td>
</tr>
<tr>
<td>411-L</td>
<td>Language Teaching Staff</td>
<td>Directed practice in conduct of introductory language courses. Open to a limited number of students enrolled in Spanish 411. Nongraded. Two credit hours.</td>
<td></td>
</tr>
<tr>
<td>491, 492</td>
<td>Topics in Spanish Literature Staff</td>
<td>Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. Prerequisite: Permission of the instructor. Two to four credit hours.</td>
<td></td>
</tr>
<tr>
<td>493, 494</td>
<td>Seminar in Spanish and Latin-American Literature</td>
<td>Topics which change each semester may cover an author, a genre, or a literary movement. Required for senior majors. Prerequisite: Permission of the instructor. Three credit hours.</td>
<td></td>
</tr>
</tbody>
</table>
Preparation for Graduate and Professional Schools

The director of career counseling advises on matters related to graduate study; information on graduate programs is available in his office. He works closely with department chairmen, major advisers, and members of faculty committees to inform students of opportunities for fellowships and scholarships in graduate schools. From this office, students may obtain information on admission tests for prospective applicants to graduate schools of arts and sciences, law, medicine, and business administration.

ARTS AND SCIENCES

Every year, Colby graduates enter many different graduate schools to work toward advanced degrees in art, music, history, classics, English, economics, modern languages, sociology, psychology, philosophy, or the natural sciences. Interested students should confer with the chairmen of their departments and their major advisers.

LAW AND GOVERNMENT SERVICE

The committee on professional preparation for law and government service advises students preparing for careers in these areas. The prelaw student may major in almost any field, but the student who has a specific goal in mind will profit from early consultation with members of the committee. The law-school admission test is given at the college each year.

MEDICINE AND DENTISTRY

Medical schools do not require a particular major but do require high standing and the inclusion of biology, chemistry, physics, mathematics, English, and foreign languages in the student's college program. It is strongly advised that mathematics be pursued at least through the first year of calculus. Organic chemistry, as well as general chemistry, is required.

The medical-college admission test is ordinarily taken in the spring of the student's junior year.

Although some dental schools admit applicants after three years, and sometimes after only two years, of college work, the leading schools prefer students with a college degree. Each applicant, regardless of his major, must meet the specific requirements in biology, chemistry, physics, and English, which differ with different dental schools.

The dental-college admission test is ordinarily taken in the spring of the junior or fall of the senior year.

Each interested student should consult a member of the com-
Colby College and the University of Rochester are affiliated in a joint program whereby a student may acquire an education in the liberal arts and also in engineering in a five-year period, with three years spent at Colby and two at Rochester. On successful completion of the program, the student may be awarded a Bachelor of Arts degree from Colby and a Bachelor of Science in Engineering degree from Rochester.

While at Colby the engineering student must attain mastery of the necessary mathematics and science to support him in the intensive study of engineering that will follow. In his Colby program, however, he is assured a broad grounding in the humanities and social sciences as well.

Students graduating in this program are exempt from Colby’s usual requirement of residence during the senior year.

The committee on professional preparation for engineering serves as adviser to students intending to enter graduate schools of engineering.

Colby has a long tradition of preparing graduates for the ministry. There are representatives of Colby alumni among the clergy of many denominations, and over the years a considerable number have done missionary work.

The theological preparation committee, in cooperation with the college chaplain, serves as adviser to students who plan to enter seminaries.

Because education is an eclectic, interdisciplinary study that draws heavily upon philosophy, history, sociology, and psychology, Colby does not offer a major in education per se. Instead, relevant subjects are offered by appropriate departments to enable the student to qualify for regular certification in Maine and most other states in the fields of English, social studies, science, mathematics, Latin, American studies, environmental studies, and commonly taught modern foreign languages. Because certification requirements vary, however, the student who plans to teach outside of Maine should obtain further information from the appropriate state department of education.

A fifth year of preparation at another institution will be required for those who want to defer professional education training, and for those who want to prepare for certification in pre-
school and elementary teaching, special education, guidance, administration, and special subjects such as art and music.

Most states expect certified teachers to obtain the master’s degree within five years. Master of Arts in Teaching programs are available, which commonly involve a semester of paid internship teaching, advanced work in the major field, and professional courses. These programs provide both the master’s degree and full certification.

The career counseling office and the office of education advise students interested in graduate work in the field of education.

The training for positions in business and industry offered by the graduate schools of business administration at Harvard, Chicago, Cornell, 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. The department of administrative science serves as general adviser for graduate work of this sort. Seniors who have such a program in mind are encouraged to take the admission test for graduate study in business.
III DIRECTORIES AND APPENDICES

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   HONORS, 183

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COLLEGE CALENDAR, 1973-74, INSIDE BACK COVER
The Corporation

**Corporate Name**  THE PRESIDENT AND TRUSTEES OF COLBY COLLEGE

<table>
<thead>
<tr>
<th>Officers</th>
<th>Name</th>
<th>Degree(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acting President</td>
<td>Ralph Samuel Williams, M.B.A., L.H.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>Chairman of the Board</td>
<td>Albert Carlton Palmer, B.A., M.A.</td>
<td></td>
<td>Stoneham, Massachusetts</td>
</tr>
<tr>
<td>Dean of the Faculty</td>
<td>Paul Gerhard Jenson, Ph.D.</td>
<td></td>
<td>Vassalboro, Maine</td>
</tr>
<tr>
<td>Administrative Vice-President</td>
<td>Ralph Samuel Williams, M.B.A., L.H.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>Administrative Vice-President</td>
<td>Robert White Pullen, Ph.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>President for Development</td>
<td>Edward Hill Turner, B.A.</td>
<td></td>
<td>Belgrade, Maine</td>
</tr>
<tr>
<td>Secretary</td>
<td>Ralph Samuel Williams, M.B.A., L.H.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>Secretary</td>
<td>Robert White Pullen, Ph.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Robert White Pullen, Ph.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Dane Joseph Cox, Ph.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
</tbody>
</table>

**List of Trustees**

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Degree(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>Charles Putnam Barnes II, LL.B.</td>
<td></td>
<td>Cape Elizabeth, Maine</td>
</tr>
<tr>
<td>1975</td>
<td>Clifford Allan Bean, M.B.A.</td>
<td></td>
<td>Concord, Massachusetts</td>
</tr>
<tr>
<td>1975</td>
<td>Norman L. Cahners, A.B., LL.D.</td>
<td></td>
<td>Boston, Massachusetts</td>
</tr>
<tr>
<td>1976</td>
<td>Alida Milliken Camp (Mrs.), B.A., M.A.</td>
<td></td>
<td>East Bluehill, Maine</td>
</tr>
<tr>
<td>1974</td>
<td>Harrison Chandler, B.A., M.A.</td>
<td></td>
<td>Los Angeles, California</td>
</tr>
<tr>
<td>1975</td>
<td>H. King Cummings, B.S., M.A.</td>
<td></td>
<td>Guilford, Maine</td>
</tr>
<tr>
<td>1977</td>
<td>Nissie Grossman, M.B.A.</td>
<td></td>
<td>Newton, Massachusetts</td>
</tr>
<tr>
<td>1975</td>
<td>Jean Hahlbohm Hampton, B.A., M.A.</td>
<td></td>
<td>Topsfield, Massachusetts</td>
</tr>
<tr>
<td>1977</td>
<td>Wallace Meredith Haselton, M.A.</td>
<td></td>
<td>Augusta, Maine</td>
</tr>
<tr>
<td>1978</td>
<td>Ellerton Marcel Jetté, LL.D.</td>
<td></td>
<td>Boston, Massachusetts</td>
</tr>
<tr>
<td>1978</td>
<td>Kenneth Algrenon Johnson, M.A.</td>
<td></td>
<td>Needham, Massachusetts</td>
</tr>
<tr>
<td>1978</td>
<td>Gordon Burr Jones, M.B.A.</td>
<td></td>
<td>Cambridge, Massachusetts</td>
</tr>
<tr>
<td>1974</td>
<td>Doris Helen Kearns, Ph.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
<tr>
<td>1974</td>
<td>Robert Allen Marden, LL.B.</td>
<td></td>
<td>Stoneham, Massachusetts</td>
</tr>
<tr>
<td>1974</td>
<td>Albert Carlton Palmer, B.A., M.A.</td>
<td></td>
<td>Boston, Massachusetts</td>
</tr>
<tr>
<td>1974</td>
<td>Wilson Collins Piper, LL.B.</td>
<td></td>
<td></td>
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<tr>
<td>1974</td>
<td>John Franklin Reynolds, M.D.</td>
<td></td>
<td>Waterville, Maine</td>
</tr>
</tbody>
</table>

1On leave, second semester, 1972-73.  
2Second semester, 1972-73.  
3First semester, 1972-73.  
4Honorary life member.
(1977) Dwight Emerson Sargent, b.a., m.a. Columbia, Missouri
(1977) Joseph Coburn Smith, m.a., l.h.d. South Portland, Maine
Reginald Houghton Sturtevant, b.a., l.l.d.1 Livermore Falls, Maine
(1976) W. Clarke Swanson, Jr., b.a., m.a. Fort Myers Beach, Florida
(al. 1973) Arthur Totten Thompson, m.b.a., sc.d. Boston, Massachusetts
(al. 1973) Sigrid E. Tompkins, ll.b. Portland, Maine
(al. 1975) Lester Frank Weeks, m.a.2 Boothbay Harbor, Maine
(1973) Esther Ziskind Weltman (Mrs.), m.ed., l.l.d. Cambridge, Massachusetts
(1977) R. Frederic Woolworth, m.a. Winthrop, Maine

(1975) Gustave Herman Todrank, ph.d. Waterville, Maine

STUDENT REPRESENTATIVES (1973) Richard L. Gawthrop ’73 Westford, Massachusetts
(1973) Charles J. Hogan ’73 Metuchen, New Jersey

FELLOWS OF COLBY COLLEGE

Carleton D. Brown Waterville, Maine
James R. Cochrane Lynnfield Center, Mass.
Augustine A. D’Amico Bangor, Maine
Barbara and Sumner Dorfman Newton, Massachusetts
E. Richard Drummond Bangor, Maine
Richard N. Dyer Waterville, Maine
Edith E. Emery Haverhill, Massachusetts
Jean Gannett Hawley (Mrs.) Portland, Maine
D. Ray Holt Winthrop, Maine
Curtis M. Hutchins Bangor, Maine
Ruth Rich Hutchins (Mrs.) Boston, Massachusetts
Edith M. Jetté (Mrs.) Bloomfield, Connecticut
Clayton Weare Johnson Danvers, Massachusetts
Robert S. Lee Bronxville, New York
Rita A. McCabe Portland, Maine
Bernice B. McGorrill (Mrs.) Waterville, Maine
John McGowan Yarmouth, Maine
C. David O’Brien Waterville, Maine
H. Stanley Palmer Belgrade, Maine
Wilson Parkhill Waterville, Maine
Bettina Wellington Piper (Mrs.) Waterville, Maine
Robert C. Rowell Waterville, Maine
Ninetta M. Runnals Dover-Foxcroft, Maine
Robert Sage Newton, Massachusetts
Oren R. Shiho Waterville, Maine
Edward H. Turner Belgrade, Maine
Ralph S. Williams Waterville, Maine

1Honorary life member.
2Deceased, December 14, 1972.
COMMITTEES OF THE BOARD

• OF TRUSTEES, 1972-73

BUDGET AND FINANCE

Dr. Anthony, Chairman; Messrs. Bean, Carter, Cummings; Vice-President Pullen, Secretary.

Mr. Johnson.

BUILDINGS AND GROUNDS

Mr. Cummings, Chairman; Messrs. Marden, Reynolds, Woolworth; Professors Johnson, Miller; two students (Miss Pope; Mr. Gorman); Vice-President Pullen, Secretary.

Mrs. Jette, Mrs. Piper; Messrs. Brown, D’Amico, Grindall, Holt, McGowan, Palmer, Rowell, Shiro.

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Dr. Bixler, Chairman, Campaign Steering; Mr. Smith, Chairman, Development; Chairman of the Board Palmer; President Strider; Mrs. Camp, Mrs. Weltman; Messrs. Grossman, Haselton, Jette, Piper, Woolworth; Vice-President Turner, Secretary.

Mr. and Mrs. Dorfman; Messrs. Cochrane, Lee, O’Brien, Sage.

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Mrs. Camp, Chairman; Miss Kearns, Miss Tompkins, Mrs. Weltman; Messrs. Cahners, Johnson, Marden, Piper, Pottle, Sargent, Swanson, Thompson; Professors Gemery, Sutherland; two students (Messrs. Cummings, Gawthrop); Dean Jenson, Secretary.

Misses Emery, McCabe, Runnals; Mr. Parkhill.

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Chairman of the Board Palmer, Chairman; President Strider; Mrs. Camp, Miss Tompkins; Messrs. Anthony, Carter, Haselton, Marden, Piper; Vice-President Pullen, Secretary.

HONORARY DEGREE

Dr. Pottle, Chairman; Miss Tompkins; Messrs. Sargent, Smith, Thompson; Professors MacKay, Todrank.

INVESTMENT

Mr. Jones, Chairman; Messrs. Carter, Haselton, Swanson, Woolworth; Vice-President Pullen, Secretary.

Messrs. Cox, Drummond, Hutchins, Williams.

NOMINATING

Mr. Smith, Chairman; Messrs. Carter, Haselton, Jones; Vice-President Turner, Secretary.

PLANNING

Mr. Piper, Chairman; Miss Kearns, Miss Tompkins, Mrs. Weltman; Messrs. Bean, Cahners, Grossman, Smith, Woolworth; Professors J. Gillespie, Koons; two students (Miss Rachal; Mr. Hogan); Vice-President Turner, Secretary.

Mrs. Hawley, Mrs. Hutchins, Mrs. Jette, Mrs. McGorrill; Messrs. Dyer, McGowan.

STUDENT AFFAIRS

Mr. Marden, Chairman; Mrs. Camp, Mrs. Hampton, Miss Kearns; Messrs. Bean, Bryan, Cummings, Grossman, Reynolds, Thomp-
son; Professors Hayslett, Pullen; two students (Miss Gates; Mr Brown); Dean Wyman, Secretary.
Mrs. Piper.
Faculty 1972-73

Professor of Philosophy, Emeritus; President, Emeritus

Wilbert Lester Carr, M.A., LL.D.
Professor of Latin, Emeritus

Alfred King Chapman, M.A., L.H.D.
Roberts Professor of English Literature, Emeritus

John Alden Clark, Ph.D.
Professor of Philosophy, Emeritus

Professor of Education and Psychology, Emeritus

Arthur Samuel Fairley, Ph.D.
Professor of Physics and Astronomy, Emeritus

Earl Austin Junghans, M.S.
Associate Professor of Mathematics, Emeritus

Florence Elizabeth Libbey, M.S.
Associate Professor of Library Science, Emeritus

E. Janet Marchant, M.A.
Associate Professor of Physical Education, Emeritus

Ernest Cummings Marriner, M.A., L.H.D.
Professor of English, Emeritus; Dean, Emeritus; College Historian

Leonard Withington Mayo, B.A., Sc.D.
Professor of Human Development, Emeritus

John Franklin McCoy, M.A.
Professor of Modern Languages, Emeritus

Earle Alton McKee, M.Ed.
Associate Professor of Education, Emeritus

George Thomas Nickerson, M.A.
Dean of Men, Emeritus

Luella Fredericka Norwood, Ph.D.
Professor of English, Emeritus

Clifford Hazeldine Osborne, B.A., D.D.
Professor of Religion, Emeritus; Chaplain, Emeritus

Ninetta May Runnals, M.A., Litt.D.
Professor of Education, Emeritus; Dean, Emeritus

Frances Fenn Seaman, B.Mus.
Dean of Students, Emeritus

Gordon Winslow Smith, M.A.
Professor of Modern Languages, Emeritus
The active faculty is arranged alphabetically in rank. In parentheses are listed colleges from which earned degrees have been received.

**PROFESSORS**

**DENNISON BANCROFT, PH.D.** (Amherst, Harvard)
Professor of Physics

**ROBERT MARK BENBOW, PH.D.** (University of Washington, Yale)
Roberts Professor of English Literature

**KINGSLEY HARLOW BIRGE, PH.D.** (Dartmouth, Yale)
Professor of Sociology

**JEAN D. BUNDY, PH.D.** (Washington State, Wisconsin)
Dana Professor of French Literature

**JAMES MORTON CARPENTER, PH.D.** (Harvard)
Professor of Fine Arts

**RICHARD CARY, PH.D.** (New York University, Cornell)
Professor of English; Curator of Rare Books and Manuscripts

**WILFRED JAMES COMBELLACK, PH.D.** (Colby, Boston University)
Professor of Mathematics

**ALICE PATTEE COMPARETTI, PH.D.** (Rockford, Cornell)
Professor of English

**ERMANNO F. COMPARETTI, PH.D.** (Cornell)
Professor of Music

**THEODORE JOHN FINNEGAN, M.S.** (New Hampshire)
(Lt. Col., U.S. Air Force)
Professor of Aerospace Studies

**JAMES MACKINNON GILLESPIE, PH.D.** (Harvard)
Professor of Psychology

**KEMP FREDERICK GILLUM, PH.D.** (Illinois, Wisconsin)
Professor of History

**HENRY HOLLAND, PH.D.** (Maine, Harvard, Madrid)
Professor of Modern Languages

**CHARLES LESLIE HOWARD, M.A.** (Oxford)
Taylor Professor of the Latin Language and Literature
PAUL GERHARD JENSON, PH.D. (Luther, Minnesota)
Professor of Psychology; Dean of Faculty

ERNST PARKER JOHNSON, PH.D. (Springfield, Brown)
Dana Professor of Psychology

RICHARD KNOWLTON KELLENBERGER, PH.D. (Oberlin, Princeton)
Professor of Modern Languages

DONALDSON KOONS, PH.D. (Columbia)
Professor of Geology

PAUL EWERS MACHEMER, PH.D. (Princeton, Pennsylvania)
Professor of Chemistry

ALBERT ANTHONY MAVRINAC, PH.D. (Pittsburgh, Harvard)
Professor of Government

FRANCIS HOWARD PARKER, PH.D. (Evansville, Indiana, Harvard)
Dana Professor of Philosophy

ROBERT WHITE PULLEN, PH.D. (Colby, Massachusetts Institute of Technology)
Professor of Economics; Treasurer (Sem. I); Administrative Vice-President (Sem. II)

HAROLD BRADFORD RAYMOND, PH.D. (Black Mountain, Harvard)
Professor of History

PETER JOSEPH Ré, M.A. (Yale, Columbia)
Professor of Music

EVANS BURTON REID, PH.D. (McGill)
Merrill Professor of Chemistry

ROBERT EVERETT REUMAN, PH.D. (Middlebury, Pennsylvania)
Professor of Philosophy

ALLAN CHARLES SCOTT, PH.D. (Clark, Pittsburgh, Columbia)
Dana Professor of Biology

ROBERT EDWARD LEE STRIDER II, PH.D. (Harvard)
Professor of English; President

JOHN HALE SUTHERLAND, PH.D. (Swarthmore, Pennsylvania)
Professor of English

ROBERT LEE TERRY, PH.D. (Earlham, Pennsylvania)
Professor of Biology

GUSTAVE HERMAN TODRANK, PH.D. (DePauw, Boston University)
Professor of Philosophy and Religion

GUENTER WEISSBERG, J.D., PH.D. (New York University, Columbia Law, Columbia)
Professor of Government
RALPH SAMUEL WILLIAMS, M.B.A., L.H.D. (Colby, New York University)
Wadsworth Professor of Administrative Science; Administrative Vice-President (Sem. I); Acting President (Sem. II)

LUCILLE PINETTE ZUKOWSKI, M.A.3 (Colby, Syracuse)
Professor of Mathematics

WALTER HENRY ZUKOWSKI, PH.D.3 (Clark)
Professor of Administrative Science

ASSOCIATE PROFESSORS

JAMES FOSTER ARMSTRONG, PH.D. (Harvard)
Associate Professor of Music

CLIFFORD JOSEPH BERSCHNEIDER, M.A. (Duquesne, Pittsburgh)
Associate Professor of History

ARCHILLE HENRI BIRON, M.A. (Clark, Paris, Middlebury)
Associate Professor of Modern Languages

MARJORIE DUFFY BITHER, M.A. (Simmons, Columbia)
Associate Professor of Physical Education

PHILIP STEWART BITHER, M.A. (Colby, Harvard)
Associate Professor of Modern Languages

KENNETH POND BLAKE, M.A., M.S. (Brown, Boston University, Simmons)
Associate Professor; Librarian

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Associate Professor of English

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Assistant Professor of English

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Instructor in Art
ARDELE JONES HANNA, M.A. (Maryland, Indiana)
Instructor in Modern Languages

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Instructor in English

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Instructor in Sociology

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Instructor in Aerospace Studies

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Instructor in Dance in the Department of Physical Education

WALTER A. MANS, M.S. (Montana State, Southern California)
(Capt., U.S. Air Force)
Instructor in Aerospace Studies

MARGARET KOONS MILLER, B.A. (Wooster)
Instructor in Art

PAUL MARTIN SACKS, M.A. (Rochester, California at Los Angeles)
Instructor in Government

JONATHAN MARK WEISS, B.A. (Columbia College)
Instructor in Modern Languages

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Instructor in Physical Education

LECTURER SIdney Weymouth Farr, M.A. (Colby, Maine)
Lecturer in Government; Director of Financial Aid and Career Counseling

FACULTY WITHOUT RANK DEBORAH LEA GIRARDIN, M.S. (Elmira, Simmons)
Audio-visual Librarian

HUGH JAMES GOURLEY III, A.B. (Brown)
Director of Art Museum

WILLIAM WALTER HILL, M.S. (St. Michael's, Long Island University)
Cataloger of Special Collections

KENNETH HIROSHI MUKAI, A.B. (Colby)
Hockey Coach

CAROLYN BEVERLY SMITH, M.L.S. (California at Davis, California at Berkeley)
Resources Librarian
The President of the college, and in his absence the Dean of the Faculty, shall be a member ex officio of all committees of the college. The first-named member of each committee is its chairman. Names with numerals following in parentheses are elected members; the numerals indicate the year of expiration of the term on the committee.

**ADMINISTRATIVE**

President Strider; Dean Jenson; Vice-President Pullen; Dean Wyman; Professors Allen ('74), Cauz ('75), Jacobson ('73); Assistant to the President Dyer; Professor Hall (secretary, non-voting); three students (Miss Nielson; Messrs. King, Roulston).

**ADMISSIONS**

Deans Jenson, Brooks (Sem. 1), Carroll (Sem. ii), Downing, Wyman; Director of Career Counseling and Financial Aid Farr; Professors Curran ('73), Longstaff ('74), Terry ('75); three students (Messrs. Brown, Drouin, Goldman); one nonvoting alumnus (Mr. Demong).

**Subcommittee on Foreign Students**

Professor Holland; Deans Brooks (Sem. 1), Carroll (Sem. ii); Director of Career Counseling and Financial Aid Farr; Registrar Coleman; Professors Arnold, Easton, Morrione; four students (Messrs. Dunn, Irwin, Muhler, Schwartz).

**AFROTC**

Professors Burke, Dunlevy, Finnegar, Landsman, Schulten; four students (Miss Spooner; Messrs. Cushing, Lipes, Rinaldi).

**ARCHITECTURAL**

Professor Miller; Vice-President Pullen; Dean Jenson; Professors Birge, Reid; Plant Engineer Palmer (nonvoting); three students (Miss Everton: Messrs. Isaacson, Leith).

**ATHLETICS**

Professors Machemer, Cox, Fowles, Hodsdon, Kempers, Winkin; five students (Misses Burnett, Hoene; Messrs. Gentile, Maniff, Perkins).

**BOOKSTORE**

Professors Knight, P. Doel, Sacks; Treasurer Cox; three students (Miss Bernard; Messrs. Gorman, Rogers).
CAMPUS NATURAL ENVIRONMENT
Professor Gilbert; Vice-President Pullen; Superintendent of Buildings and Grounds Grindall; Professors Johnson, Meader, Stratman; Miss Smith; two students (Misses Campbell, Pope).

COMMENCEMENT
Director of Student Activities Zacamy; Vice-President Pullen; Vice-President Turner; Registrar Coleman; Assistant to the President Dyer; Superintendent of Buildings and Grounds Grindall; Alumni Secretary Burke; Administrative Assistant to the President Hall; Treasurer Cox; Director of Food Service O'Connor; College Marshall Todrank; Director of Publications Sanborn; Professors Armstrong, Berschneider, Thorwaldsen, Whitmore, Witham; senior class officers (Messrs. Allen, Andrews, Krasnavage, Mattos).

EDUCATIONAL POLICY
Dean Jenson; President Strider; Professors Parker, Mizner (Sem. 1), Filosof (replacing Prof. Mizner, Sem. 11), Metz ('73), P. Perez ('73), Carpenter ('73), D. Koonce ('74), Rosenthal ('74), Hayslett ('74); three students selected by Student Government (Miss Todd; Misses. Cummings, Jenks); two students appointed by President Strider (Miss Wintringham; Mr. Alsop); without vote: Dean Wyman; Professor Hall (secretary); alumni representative (Mrs. Abbott).

Subcommittee on Interdisciplinary Programs
Professors Kany, Bassett, Brancaccio, Elison, Gilbert, Jacobson, Johnson, D. Koonce, H. Koonce, Rosen (secretary).

EXAMINATIONS AND SCHEDULES
Registrar Coleman; Professors Benbow, Combellack, Cox, C. Ferguson, R. Gillespie, Ray, Winkin; two students (Misses Marson, Rachal).

FINANCIAL AID
Vice-President Pullen; Deans Brooks (Sem. 1), Carroll (Sem. 11), Smith, Wyman; Treasurer Cox; Director of Career Counseling and Financial Aid Farr; Professors Allen ('73), Branc accio ('74), Landsman ('74), Thorwaldsen ('75); four students (Miss Selby; Messrs. Besant, Friedman, Surdu t); one nonvoting alumnus (Mr. Vigue).

FINANCIAL PRIORITIES
Vice-President Pullen; Dean Jenson; Professors Hogendorn ('75), Machemer ('73), Miller ('74); three students (Miss Rachal; Messrs. Gawthrop, Perkins); one nonvoting alumnus (Mr. Rowell).

FOREIGN STUDIES AND STUDENT EXCHANGE
Professors Kellenberger, Biron, Champlin, Curran, Elison, P. Perez, Rosenthal; Registrar Coleman; Deans Downing, Kany; four students (Misses Breslin, Hoen, Staples; Mr. Akyuz).

FRESHMAN WEEK
Director of Student Activities Zacamy; Deans Smith, Wyman; Registrar Coleman; Professor H. Pestana; Mr. Whitney; five students (Misses Beedle, Doret, Hansen; Messrs. Fitzgibbons, Vann).
HONORARY DEGREES
Professors Todrank, Benbow, Bundy (Sem. 1), E. Comparetti, Johnson, MacKay, Mavrinac (Sem. 11), Raymond, Weissberg, Westervelt; two students (Miss Gates; Mr. Janes).

LIBRARY
Professors Zohner, Armstrong, R. Doel, Foner, Fuglister, Mizner, W. Smith, J. Wyman; Librarians Blake, Shaw; five students (Miss Kelly; Messrs. Bell, Chee, McAuliffe, Potter).

PROFESSIONAL PREPARATION

College Teaching
Professors Schmidt, Brancaccio, Reuman; one student (Mr. Brown).

Engineering
Professors Dudley, Knox, Ray; one student (Mr. Dunn).

Law and Government Service
Professors Berschneider, Weissberg; Mr. Hill; one student (Mr. Wolzak).

Medicine and Dentistry
Professors Terry, DeSisto, Easton, Maier; one student (Miss Wintringham).

Secondary School Teaching
Professors Jacobson, E. Pestana, Sutherland; one student (Miss Armitage).

Theology
Professors Thorwaldsen, Longstaff, Todrank; one student (Mr. Kelsey).

RIGHTS AND RULES
Miss Armitage (student); Deans Downing, Smith; Chaplain Thorwaldsen; Professors Dunlevy ('73), W. Smith ('74); six students (Miss Thibeau; Messrs. Casto, Cavazuti, Hanf, Levine, Sherman).

SAFETY
Superintendent of Buildings and Grounds Grindall; Treasurer Cox; Dean Smith; Assistant to the Treasurer Reinhardt; Professor Covell; three students (Miss Kominz; Messrs. Goodhope, Gorman).

SENIOR SCHOLARS
Professors Maier, Bancroft, Biron, Bridgman, Champlin, DeSisto, Miller; two students (Miss Michaud; Mr. Eisen).

SPECIAL PROGRAMS
Professors Geib, Filosof, Lester, Maisel, Raymond, Small; Director of Special Programs Kany; four students (Misses Lawson, Payne; Messrs. Casto, Drouin).

STANDING
Professors Koons, P. Bither, Knight; Deans Jenson, Wyman; Registrar Coleman (secretary); two students (Misses Jason, Lindsay; nonvoting: Deans Brooks (Sem. 1), Carroll (Sem. 11).

FACULTY COMMITTEES

1972-73

GRADUATE SCHOLARSHIP
Dean Jenson; Director of Career Counseling and Financial Aid Farr; Professors Bassett, P. Bither, Kenney, D. Reuman, Scott, Sweney, Terry, Todrank, Weissberg.
GRIEVANCE  Professors Raymond ('73), Kenney ('74), Suss ('75).


NOMINATING  Professors Curran, Allen, Bancroft, Howard, Jacobson, Weissberg.

REMEMBRANCE  Professors M. Bither, Combellack, Heinrich, Hodges.

RESEARCH, TRAVEL, SABBATICAL  Dean Jenson; Vice-President Pullen; Professors Carpenter, Gillum, Reid.

STUDENT APPEALS BOARD  Professors Mizner ('73), Bassett ('74), Smith ('75).
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ADMINISTRATIVE ASSISTANT TO THE PRESIDENT
Jon Franklin Hall, Ph.D.

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Paul Gerhard Jenson, Ph.D.

ASSISTANT DEAN OF THE FACULTY
Robert Hurd Kany, Ph.D.

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Robert White Pullen, Ph.D.2

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Douglas Edward Reinhardt, b.a.

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Willard Gordon Wyman, Ph.D.

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Walter J. Brooks, M.A.

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DIRECTOR OF SPECIAL PROGRAMS
Robert Hurd Kany, Ph.D.

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SUPERINTENDENT OF BUILDINGS AND GROUNDS
Ansel A. Grindall

1First semester.
2Second semester.
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J. Paul O'Connell

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Ernest Cummings Marriner, M.A., L.H.D.

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Richard H. Leavitt, B.A.

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Sarah Barker
Readers' Services Assistant, Library
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Barbara Williamson (Mrs.)  
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**Secretary to the Director of Special Programs**

**MAINTENANCE STAFF DEPARTMENT HEADS**

J. Norman Poulin  
**Sanitation Foreman**

Robie F. Bickmore  
**Heating Foreman**

Fernand J. Michaud  
**Outside Foreman**

Roy Brackett  
**Electrical Foreman**

**MEDICAL STAFF**

Clarence E. Dore, M.D.  
**College Physician**

John F. Reynolds, M.D.  
**Consultant in Surgery**

Carl E. Nelson, M.Ed.  
**Director of Health Services**

Philip Swett  
**Assistant, Health Services**

Priscilla Sargent, R.N.  
**Head Nurse in Residence**

**NURSES**

Marion Collins (Mrs.), R.N.  
Elizabeth Frost (Mrs.), R.N.  
Joanne Harfoush (Mrs.), R.N.  
Ellen Perkins (Mrs.), R.N.  
Lita Poulin (Mrs.), Nurse's Aide  
Mildred Richardson (Mrs.), R.N.  
Diane Williams (Mrs.), R.N.

**DIETARY STAFF**

Inza T. Foster (Mrs.)  
**Manager, Foss Dining Hall**

John Jenkins  
**Manager, Dana Dining Hall**

John Mosley  
**Student Assistant Manager, Roberts Union Dining Hall**

Duane Rancourt  
**Manager, Roberts Union Dining Hall**

**RESIDENCE STAFF**

John Lombard  
**Coburn**

The Rev. Roland W. Thorwaldsen  
**Leonard, Marriner, Sturtevant, and Taylor**
Enrollment by States and Countries

CLASSIFIED ACCORDING TO GEOGRAPHICAL LOCATIONS OF STUDENTS' HOMES, 1972-73

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Each * denotes one American citizen.
Degrees and Honors

The degree of Bachelor of Arts with honors is awarded in three grades: *summa cum laude* to those who obtain a 3.75 grade point average; *magna cum laude* to those with a 3.50 grade point average; *cum laude* to those with a 3.25 grade point average.

A second category of honors, entitled *distinction in the major*, is awarded to a student on the specific recommendation of the department. To be eligible the student must have at least an average of 3.25 in the major and recommendation of the major department. The department recommends *distinction in the major* only for those very few students who, in the opinion of the department, merit special recognition.

In American colleges it is generally considered that the highest honor an undergraduate can receive is election to Phi Beta Kappa. This society, founded in 1776, restricts its chapters to leading colleges and universities, and maintains high scholastic standards. The Beta Chapter of Maine was organized at Colby in 1895.

Each spring the college recognizes student achievement with the announcement of various honors and awards. Among those recognized are: members of Phi Beta Kappa; Senior Scholars for the ensuing year; winners of college prizes; newly elected members of Blue Key, honor society for senior men and senior women; and recipients of Phi Beta Kappa certificates, awarded to members of the three lower classes for distinction in scholarship.

Academic excellence is also recognized at a convocation each fall for the Julius Seelye Bixler and Charles A. Dana scholars. Bixler Scholars are the top-ranking students as determined by the academic records of the preceding year. Dana Scholars are selected on the basis of a strong academic performance and potential leadership.

The Dean's List, recognizing high academic standing, and announced at the conclusion of each semester, includes the name of every student whose average of all marks in the previous semester has been at least 3.2 in a minimum of twelve graded credit hours for upperclassmen, 3.0 in a minimum of twelve graded credit hours for freshmen.
Degrees Awarded at Commencement
Sunday, June 4, 1972

BACHELOR OF ARTS

Marcia Louise Adams, Burlington, Vt.
William Lee Alford, Waterville, Me.
Jane Kannell Altholz, Fitchburg, Mass.
Susan Waterman Amory, Wellesley Hills, Mass.
Michael Barry Amster, Huntington, N.Y.
Nilgun Adil Arda, Istanbul, Turkey
Jamie Gail Aronow, New York, N.Y.
John Christopher Atkinson, Hingham, Mass.
James Wilfred Balano III, Port Clyde, Me.
Sylvia Jenkins Ballas, Waterville, Me.
Sarah Ann Barker, Nashua, N.H.
Susan Imbrie Bassi, Lakewood, Ohio
Carol M. Beaumier, Westbrook, Me.
Amy G. Becker, Center Harbor, N.H.
Christina Belsky, Franklin Square, N.Y.
Joyce Laura Bemak, Northport, N.Y.
Joseph Dudley Benson, White Bear Lake, Minn.
Judith Ellen Berringer, Framingham, Mass.
Lawrence Charles Bigelow, East Berlin, Conn.
Frank Anthony Bisognano, Lexington, Mass.
Paul Bradford Blanch, Winchester, Mass.
Ann Austin Bonner, Portland, Me.
Donald Blaine Borman, Chappaqua, N.Y.
Sherwin Earle Bowie, Lisbon, Me.
Wentworth Devries Boynton, Jr., Wyomissing, Pa.
Lynn Ann Bradbury, Farmington, Conn.
Robert Summit Brown, Bristol, Conn.
Vernon Lee Brown III, Ridgewood, N.J.
Nancy Brunckow, East Providence, R.I.
James Andrew Bubar, North Anson, Me.
Maryanna Buck, Middleboro, Mass.
Barbara Anne Martinek Buckner, Waterville, Me.
John Philip Bunker, Jr., Palermo, Me.
Faith Ellen Bushel, Owings Mills, Md.
Burton Weldon Butler, Hibbing, Minn.
Susan Lynn Buttner, Westport, Conn.
Michael Frederick Caggiano, Woburn, Mass.
Andrew Livingston Campbell, Moorestown, N.J.
Kristen Capers, Medfield, Mass.
Nancy Capers, Medfield, Mass.
Edward Quincy Carr, Quincy, Mass.
Mary Marjorie Chamberlain, Marblehead, Mass.

John Carver Chandler, New Sharon, Me.
Gregory Wayne Chapman, Easton, Mass.
Sara Ellen Chase, Kittery, Me.
David Robert Cheever, Bangor, Me.
Karen Britta Chellquist, Holliston, Mass.
Sally Creighton Chester, Stevenson, Md.
Nancy Chin, Rockland, Mass.
Linda Jane Chmielinski, Braintree, Mass.
Deborah Katharine Christensen, Berlin, N.H.
Russell Edward Cleary, Concord, Mass.
Thomas Tucker Cleaves, Woburn, Mass.
Shelby Williams Coady, Canton, Mass.
Ann Baldwin Cody, Needham, Mass.
Susan Lee Colantuono, Sudbury, Mass.
James Edward Colburn, Jr., Denver, Colo.
Elenora Lachapelle Cole, Farmingdale, Me.
Russell George Gillespie Condon, Woodmont, Conn.

Virginia Marie Corriveau, Nashua, N.H.
John Timothy Crabtree, Walpole, N.H.
John Carlos Cresson, Huntingdon Valley, Pa.
Dashiell Wesley Crigler, Philadelphia, Pa.
Deborah Ellen Crimmins, Kensington, Md.
Peter Frederick Crosby, St. Johnsbury, Vt.
John Charles Danila, Collinsville, Conn.
Thomas John Danisiewicz, Lynn, Mass.
Tracey L. Danyluk, Ft. Lauderdale, Fla.
Priscilla Jean Davis, Utica, N.Y.
Tyler B. Davis, Jr., North Smithfield, R.I.
Anthony John De Angelo, Port Jefferson Station, N.Y.

Patricia Maria DeBerry, Portsmouth, Va.
Gary Chris Deichmiller, Danville, Ill.
Patricia Elizabeth Downey, Arlington, Mass.
Patrick Dennis Duddy, Bangor, Me.
Thomas Stephen Economos, Saco, Me.
Gardner Morse Edgerton, Jr., Wellesley, Mass.
Paul Gordon Elliot, Newton, Mass.
Shannon Tavener Elliott, New York, N.Y.
Anne Margaret Emerson, Digby, N.S., Canada
Jeanne Elizabeth Emerson, West Roxbury, Mass.
Louis Fleming Fallon, Jr., Oconomowoc, Wis.
Pamela Lee Fallon, Weston, Mass.
Edith Richmond Febiger, South Essex, Mass.
Dana William Fitts, Excelsior, Minn.
Deirdre May Fitz-Gerald, Yarmouth Port, Mass.
Lynda Ellis Flood, Waterville, Me.
Darlene Ramona Ford, Brewer, Me.
Jane Elizabeth Ford, Farmington, Me.
Paul Crandall Ford, Framingham, Mass.
Mitchell Elliot Fox, Randolph, Mass.
Barbara Ann Freund, Colonia, N.J.
Bruce Carter Frisbie, Longmeadow, Mass.
Theodore Michael Gawlicki, Enfield, Conn.
Steven Gaynor, Marblehead, Mass.
Melanie Edith Geisler, Newcastle, Me.
Robertine Marie Gervais, St. Agatha, Me.
Gretchen Gfeller, Marblehead, Mass.
Michael James Gibbons, Briarcliff, Mass.
Linda Jean Giguerre, Waterville, Me.
Dennis Charles Gilbert, Sangerme, Me.
Richard Portlock Giles, Dallas, Tex.
Alan Howard Glass, Brookfield, Mass.
Gail Anne Glidden, Orrington, Me.
Patricia Ann Godfrey, Olean, N.Y.
William Peter Goldstein, Rockville Centre, N.Y.
Janice Lee Goodwin, Bethlehem, Conn.
Margaret Elizabeth Gordon, Philadelphia, Pa.
Ellen Yvette Gould, Burlington, Vt.
Penelope Fairbank Grace, Arlington, Va.
Susan Ann Griffin, Montreal, Que., Canada.
Louis E. Griffith III, East Woodstock, Conn.
Ruth-Marie Edla Griswold, Wethersfield, Conn.
John Albert Guislin, Westford, Mass.
Bruce William Haas, Mélrose, Mass.
Robert John Hadam, Waterville, Me.
Joyce Martha Hall, Duxbury, Mass.
Christine Patricia Hanley, Hillsdale, N.J.
Donald Moffat Harding, Dover, Mass.
Jennifer Curren Harding, Sarasota, Fla.
Peter Robertson Haskell, Manchester, Conn.
Michael Douglas Havey, Hartford, Conn.
Paul Joseph Hecht, New Rochelle, N.Y.
Robert Edwin Hickey, Jr., Yarmouth Port, Mass.
Deborah Ann Hobbs, Concord, Mass.
M. Denise Holder, Sag Harbor, N.Y.
Janet Shepard Holm, Wilmington, Del.
Christiana Holzer, Gallipolis, Ohio.
Linda Lee Howard, Methuen, Mass.
Ruth Shagoury Hubbard, Palmer, Mass.
Donna L. Huff, Hallowell, Me.
Charles Knorth Hull, Bangor, Me.
Portia Glenn Iverson, Keyser, W.Va.
Michael Kenneth Jacobs, Waltham, Mass.
Cynthia Jeve, Norwell, Mass.
Carol Ann Johnson, Boca Raton, Fla.
William Stewart Johnson, Monmouth, Me.
Patricia Betty Johnstone, Shrewsbury, N.J.
Ellen Elizabeth Jones, Blacksburg, Va.
Richard Standish Jones, Jr., Waterville, Me.
Elizabeth Fuller Joslin, Swansea, Mass.
Catherine Ruth Joslyn, Leawood, Kans.
Richard Allan Kaback, Tarrytown, N.Y.
Steven Alan Kanovitz, Newton, Mass.
Mitchell Harvey Kaplan, Brookline, Mass.
Rebecca Jane Kaufman, Great Falls, Va.
Catherine Ann Kelley, Hampton, N.H.
Sharon June Kendall, Sherborn, Mass.
Brian Robert Kennedy, Haverhill, Mass.
Ellen Kinney, Rumson, N.J.
Paul Henry Klainer, Waterville, Me.
Joseph Myers Koch III, Bellevue, Wash.
David Michael Konjoian, Andover, Mass.
John Donaldson Koons, Sidney, Me.
Peter Alan Krakoff, Manchester Depot, Vt.
Stephanie Kuehn, Weston, Mass.
David Haskell Lannan III, Bellport, N.Y.
Jeffrey Lee Lawrence, Kittery, Me.
Ronald Lebel, North Smithfield, R.I.
Christine Anne Legere, Fitchburg, Mass.
Richard Campbell Leslie, Watertown, Mass.
Howard Martin Levy, Beverly, Mass.
Cynthia Ellen Lindgren, Elmwood, Conn.
Larry Wallace Linnell, Galais, Me.
Wayland Frey Linscott, Scarsdale, N.Y.
Samuel B. Lipman, Augusta, Me.
Mary Jean Locke, Glen Rock, N.J.
Susan Janet Longhito, Brooklyn, N.Y.
Craig Gordon Lorimer, North Windham, Me.
Kathy Andrea Lowe, Clayton, Mo.
Sarah Lindsay Lucy, Lee, Mass.
Richard George MacKay, Hartford, Conn.
Karen Anne Mahanke, Andover, Mass.
Edmund Vincent Mahoney, Westwood, Mass.
Diane Arlene Malpass, South Portland, Me.
Sandra Ann Manoogian, West Hartford, Conn.
Sheila Jay Marks, Forest Hills, N.Y.
Victoria Sue Marshall, Aurora, Ohio
Susan Arlene Martin, Westfield, N.J.
John Charles Martland, Thompson, Conn.
Harriette R. Maurer, Norwich, Conn.
Pamela Ann Mause, East Quoque, N.Y.
Kevin Thomas McCormick, West Roxbury, Mass.
Marilyn Kay McDougal, Weston, Conn.
Kathleen Louise McGirr, Barrington, R.I.
David James McGowan, Waterville, Me.
Paul Emile McGurren, Methuen, Mass.
Erland Charles McLetchie, Laconia, N.H.
Douglas deHaas McMillan, Saint Paul, Minn.
David Leonid Melpignano, Milford, Mass.
William Michael Meserve, Gardiner, Me.
John R. Miles, Rochester, N.Y.
Michael Rocco Miniutti, Biddeford, Me.
Lynda Diane Moore, Huntington Valley, Pa.
Judith Olcott Moreland, Niantic, Conn.
Edward Grange Morin, Jr., Chatham, N.J.
Margaret Carol Morland, Lynchburg, Va.
Craig Roger Morrisette, Winslow, Me.
Elizabeth Dixon Morton, Concord, N.H.
David Calkin Moyer, Manchester, Conn.
Katherine Erdilek Muhlhausen, Bethlehem, Pa.
Christine Murphy, Dracut, Mass.
Ellen Muzzy, Wellesley, Mass.
John S. Nahra, Bangor, Me.
April Joan Nelson, Brookfield, Conn.
Gary William Newton, Needham, Mass.
Elizabeth Abbott nitze, Rochester, N.Y.
Louise Marie Nurdin, West Warwick, R.I.
Rebecca Jane Nutter, North Berwick, Me.
Henry McFarlan Ogilby, Randolph, N.H.
Margaret Anne O'Hanian, Warwick, R.I.
Alice Lieb Osmer, Damariscotta, Me.
Kathleen Jane Otterson, Manchester, N.H.
Harry Chandler Parker, Johnson, Vt.
Norman King Parsells, Jr., Fairfield, Conn.
Jeffrey Mark Paul, Foxboro, Mass.
Cynthia Full Pawlek, Woodstock, Vt.
George Alfred Peabody, Scottsdale, Ariz.
Mark Pecevich, Beverly, Mass.
Roberto da Cunha Penedo, Citapemim, E.S., Brasil
Nancy Marie Pergola, Danvers, Mass.
Brian Lovell Peterson, Reading, Mass.
Gary Bruce Petzold, Wilbraham, Mass.
Robert Alan Pike, Haverhill, Mass.
Catherine J. Pinette, Westbrook, Me.
Christopher Wayne Pinkham, Canton, Mass.
Joseph Pipinias, Old Orchard Beach, Me.
Carolyn Ward Poinier, Wilton, Conn.
Donna Lynn Power, Denfield, N.Y.
Laureen Marie Ramonas, Canton, Mass.
Cynthia Herbert Rand, Winchester, Mass.
Stephen Paul Rappaport, Valley Stream, N.Y.
Gary Alan Ray, Milbridge, Me.
Katherine Odh Reed, Concord, Mass.
Stina Curtis Reed, Westport, Conn.
Gail Ann Reilly, Westbrook, Me.
James Dean Ridley, Westborough, Mass.
Mary Just Robbins, Concord, Mass.
Katherine Shelley Roberts, Pittsfield, Mass.
Virginia Reed Robinson, Watchung, N.J.
Betsey Ann Rogers, Amesbury, Mass.
Elizabeth Joy Ross, Biddeford, Me.
William Joseph Rouhana, Jr., Brooklyn, N.Y.
Nancy Gay Round, Warwick, R.I.
George Roundy, Jr., Camden, Me.
Rebecca Pauline Routh, Champaign, Ill.
Debra Elizabeth Salsbury, Clear Lake, Iowa
Sibyl Wright Sanford, Greenwich, Conn.
Karen Holm Sawyer, Silver Spring, Md.
Claire Louise Scarano, Hillsdale, N.J.
Randolph Geltner Schine, Gloversville, N.Y.
Nancy Schuman, Manhasset Hills, N.Y.
Judith Ann Schwartz, Manchester, N.H.
Sheila Lynne Seaman, West Simsbury, Conn.
Stephen Andrew Self, Peterborough, Ont., Canada
Johna Lee Sencabaugh, Medford, Mass.
Barbara Renee Senges, Somerville, N.J.
Elizabeth Jordan Sherer, Fair Lawn, N.J.
Janet Shreve, Dedham, Mass.
Sarah Cecarelli Shuford, Northford, Conn.
Patrick A. Sibony, Rego Park, N.Y.
Thomas Wilson Sidar, Basking Ridge, N.J.
Joel Martin Simon, Brooklyn, N.Y.
Philip Saul Singer, Brunswick, Me.
Vicky J. Slagle, Johnstown, Pa.
Alison Lynn Smith, Slatersville, R.I.
Craig Weldon Smith, Cambridge, Mass.
Danny Dick Smith, Litchfield, Me.
Nat haniel Tyler Smith, Gates Mills, Ohio
Donald Jay Snyder, Milton, Pa.
Janice Dignam Stabile, Winchester, Mass.
William Joseph Stanton, South Portland, Me.
Clifford Elisha Stevens III, Lambertville, N.J.
Margaret Elizabeth Stewart, Darien, Conn.
W. Randall Strickland, Oakland, Me.
Michael J. Strotz, Evanston, Ill.
Carl Walter Stursberg, Jr., Roslyn Harbor, N.Y.
W. Randall Strickland, Oakland, Me.
Michael Joseph Szostak, Methuen, Mass.
Rebecca Marble Talcott, Stanford, Conn.
Swift Tarbell III, Birmingham, Ala.
Susan Hoy Terrio, East Vassalboro, Me.
Rosamond Ellen Teto, Fitchburg, Mass.
Jane Elizabeth Thayer, Concord, Mass.
Patricia Ann Thomas, Little Falls, N.J.
Dudley Walter Townsley, Laconia, N.H.
William Adelbert Tracy, Jr., Charleston, Me.
Deborah Ann Tresco tt, Rumford, R.I.
Frederick William Valone, Utica, N.Y.
Robert Faber Vaughan, Islip, N.Y.
Janet Grace Veasey, Warwick, R.I.
Gary P. Veilleux, Augusta, Me.
James Francis Vigue, Waterville, Me.
Peter Julian Vose, Scarborough, Me.
Linda Kay Wackwitz, Bethesda, Md.
Richard Dine Waldman, Newton, Mass.
Stanley Herbert Waldman, Sharon, Mass.
Clifford Andrew Walker, Hollis, N.H.
Hugo Brynolf Wallgren, Fitchburg, Mass.
Linda Ward, Topsham, Me.
Patricia Lynn Ware, Center Brunswick, N.Y.
Barbara Joan Weldon, Newark, Del.

Theodore Allard White, Shrewsbury, Mass.
Patricia Mustakangas Whitney, Waterville, Me.
Walter Henry Wiener, Rockport, Me.
Randall Gary Wieting, Marblehead, Mass.
James Douglas Winchester, Jonesport, Me.
Lloyd Russell Winter, Old Saybrook, Conn.
Sharon Elaine Witham, Castine, Me.
David Dwight Withnell, Hamden, Conn.
Mary Wolff, Milford, Conn.
Ellen Elizabeth Woods, Hampton, N.H.
Arthur Lincoln Young, Hanover, N.H.
Paul Frederick Young, Gorham, Me.
Donna McQuillen Zacamy, Waterville, Me.
Marguerite Yvonne Zientara, Augusta, Me.
Matthew S. Zweig, New York, N.Y.

As of the Class of 1971
Kevin Neil Jagla, Middleboro, Mass.
Richard Charles Kleinberg, New York, N.Y.
Ernest Albert Simpson III, Hampton, N.H.

As of the Class of 1970
Walter Barney Cotter, Barrington, R.I.

As of the Class of 1960

Degrees Granted in October as of the Class of 1971
Alan Albert Ackley, Groton, Conn.
Charles Kenneth Altholz, Highland Park, Ill.
Susan Louise Davidson, New Paltz, N.Y.
Harry Hall Dustin, Andover, Mass.
Louis David Gordon, New York, N.Y.
Robert Francis Hyland, Newport Beach, Calif.
Eric Ralph Joerg, Durham, N.C.
Karla Anne Kavanaugh, Collegeville, Pa.
Connally Keating, Locust Valley, N.Y.
Jonathan Crocker Rich, Portland, Me.
Mary Anne Tomlinson, Auburn, Me.

MASTER OF SCIENCE IN TEACHING
George Dyson Amos, Point Pleasant, N.J.
Robert Arthur Clark, Detroit, Mich.
Arthur Paul Crowell, Norridgewock, Me.
Charles Englebert Danielski, Deerfield, Mass.
John Richard DeSimone, Saco, Me.
Larry Douglas Hallowell, Presque Isle, Me.
Honors

BACHELOR'S DEGREE WITH HONORS

Summa Cum Laude
William Charles Earnshaw
Laureen Marie Ramonas
Judith Ann Schwartz
Philip Saul Singer
Frederick William Valone

Magna Cum Laude
Timothy Stephen Carey
Anne Margaret Emerson
Deirdre May Fitz-Gerald
John Albert Guislin
Christiana Holzer
Ellen Elizabeth Jones
Richard Pierce Kaynor
Christine Anne Legere
Ellen Muzzy
April Joan Nelson
Carolyn Ward Poinier
Stephen Paul Rappaport
Rebecca Pauline Routh
Sheila Lynne Seaman

Rebecca Marble Talcott
Swift Tarbell III
Rosamond Ellen Teto
Clifford Andrew Walker
Matthew S. Zweig

Cum Laude
Jamie Gail Aronow
Judith Ellen Berringer
Barbara Anne Martinek Buckner
Mary Marjorie Chamberlain
Sally Creighton Chester
Shelby Williams Coady
Tracey L. Danyluk
Edith Richmond Febiger
Patricia Ann Godfrey
Ellen Yvette Gould
Penelope Fairbank Grace
Cynthia Jevne
Mitchell Harvey Kaplan
David Michael Konjoian
Stephanie Kuehn
Craig Gordon Lorimer

Norman Dunham Lattin
Doctor of Laws
Elma Lewis
Doctor of Fine Arts
Donald Raymond McNeil
Doctor of Laws
Walter George Muelder
Doctor of Divinity
Albert Carlton Palmer
Doctor of Laws
Evan John Shearman
Doctor of Divinity
Ralph Samuel Williams
Doctor of Humane Letters
Marguerite Yourcenar
Doctor of Letters
Diane Arlene Malpass
Susan Arlene Martin
Pamela Ann Mause
Judith Olcott Moreland
Christine Murphy
Janice Marie O'Connell
Mark Pecevich
Roberto da Cunha Penedo
Gail Ann Reilly
Elizabeth Joy Ross
William Joseph Rouhana, Jr.
George Roundy, Jr.
Debra Elizabeth Salsbury
Claire Louise Scarano
Johna Lee Sencabaugh
Barbara Renee Senges
Patrick A. Sibony
Vicky J. Slagle
Susan Hoy Terrio
Patricia Ann Thomas
Linda Kay Wackwitz

HONORS IN ENGLISH
Patrick Dennis Duddy
Dennis Charles Gilbert
Ellen Yvette Gould
Carl Walter Stursberg, Jr.

DISTINCTION IN THE MAJOR
Administrative Science
Harry Chandler Parker
Philip Saul Singer
American Studies
Vicky J. Slagle

Art
April Joan Nelson
William Joseph Stanton

Biology
William Charles Earnshaw
Darlene Ramona Ford
Ruth-Marie Edla Griswold
Craig Gordon Lorimer
Carolyn Ward Poinier
Patrick A. Sibony
Patricia Ann Thomas

Chemistry
Timothy Stephen Carey

Mark Pecevich
Laureen Marie Ramonas
Frederick William Valone

Classics
Christine Anne Legere

East Asian Studies
Richard Pierce Kaynor
Judith Ann Schwartz
Clifford Andrew Walker

Economics
Patricia Ann Godfrey
John Albert Guislin
Janice Marie O'Connell

English
Susan Lee Colantuono
Patrick Dennis Duddy
Anne Margaret Emerson
Paul Crandall Ford
Dennis Charles Gilbert
Ellen Yvette Gould
Cynthia Jevne
Elizabeth Fuller Joslin
Norma Jean Ouellet
George Roundy, Jr.
Debra Elizabeth Salsbury
Claire Louise Scarano
Sheila Lynne Seaman
Johna Lee Sencabaugh
Joel Martin Simon
Carl Walter Stursberg, Jr.
Rosamond Ellen Teto
Peter Julian Vose

French
Jamie Gail Aronow
John Albert Guislin
Rebecca Pauline Routh
Susan Hoy Terrio

Geology
Linda Kay Wackwitz

German
Christiana Holzer
Ellen Elizabeth Jones
Linda Ward

Government
Lynn Ann Bradbury
Deirdre May Fitz-Gerald
Steven Gaynor
Stephen Paul Rappaport
Elizabeth Joy Ross
William Joseph Rouhana, Jr.
Swift Tarbell

Greek
Rebecca Jane Nutter

History
Sherwin Earle Bowie
Sally Creighton Chester
Thomas John Danisiewicz
Christine Murphy
Ellen Muzzy
Rebecca Marble Talcott

Mathematics
Barbara Anne Martinek Buckner
Susan Arlene Martin

Music
Melanie Edith Geisler
Cynthia Full Pawlek

Philosophy
Robert Summit Brown

Philosophy-Mathematics
Mitchell Harvey Kaplan

Philosophy-Religion
Gail Ann Reilly

Psychology
Louis Fleming Fallon, Jr.
Penelope Fairbank Grace
Kathy Andrea Lowe
David Calkin Moyer
Matthew S. Zweig

Russian
Ellen Elizabeth Jones
Rebecca Pauline Routh

Sociology
Judith Olcott Moreland

Spanish
Steven Alan Kanovitz

PHI BETA KAPPA

Elected in Junior Year
Timothy Stephen Carey

Elected in Senior Year
William Charles Earnshaw
Laureen Marie Ramonas
Philip Saul Singer
Rosamond Ellen Teto
Frederick William Valone
Matthew S. Zweig

Elected in Senior Year
Mary Marjorie Chamberlain
Sally Creighton Chester
Anne Margaret Emerson
Deirdre May Fitz-Gerald
Patricia Ann Godfrey
Ellen Yvette Gould
John Albert Guislin
Christiana Holzer

Ellen Elizabeth Jones
Mitchell Harvey Kaplan
Christine Anne Legere
Craig Gordon Lorimer
Susan Arlene Martin

Gordon Kennedy McLean
Christine Murphy
Ellen Muzzy
April Joan Nelson
Janice Marie O'Connell
Mark Pecevich

Roberto da Cunha Penedo

Carolyn Ward Poinier

Stephen Paul Rappaport
William Joseph Rouhana, Jr.
Rebecca Pauline Routh
Judith Ann Schwartz
Barbara Renée Senges

Vicky J. Slagle

Rebecca Marble Talcott
Swift Tarbell

SENIOR SCHOLARS

Patrick Dennis Duddy

A Study of the Craft and Writing of Poetry

Louis Fleming Fallon, Jr.

Psychological Mechanisms in Learning

Mathematical Concepts

Dennis Charles Gilbert

Untitled Novel
Ruth-Marie Edla Griswold  
_An Investigation of Barbel Regeneration in the Catfish, Amiurus nebulosus_

Paul Joseph Hecht  
_An Applied Study in the Relationship of Sculpture and Furniture Design_

Richard Pierce Kaynor  
_Chinese Literature and Revolutionary Consciousness_

Mark Pecevich  
_A Spectrophotometric Assay for Vitamin B,_

Gail Ann Reilly  
_A Critique of the Philosophical Ideas of Sarvepali Radhakrishnan_

Vicky J. Slagle  
_“Follow Your Leader”: A Study in Race Relations_

Carl Walter Stursberg, Jr.  
_The Development of the Role of the Narrator in the Six Major Works of Geoffrey Chaucer_

Matthew S. Zweig  
_The Effect of Consumatory Stimuli on Brain Stimulation Reinforcement_

**JULIUS SEELYE BIXLER SCHOLARS**

**Class of 1972**  
Laureen Marie Ramonas  
Philip Saul Singer  
Frederick William Valone

**Class of 1973**  
Richard Lamb Gawthrop  
Carole Josephine LaRose

**Class of 1974**  
Karen Dee Sawitz

**Class of 1975**  
Celeste Christie Keefe  
Sandra Lou McGowan  
Barbara Lynn Miller  
Prudence Elizabeth Reed  
Janice Anne Waitt

**CHARLES A. DANA SCHOLARS**

**Class of 1972**  
Timothy Stephen Carey

William Charles Earnshaw  
Anne Margaret Emerson  
Deirdre May Fitz-Gerald  
Ellen Elizabeth Jones  
Mitchell Harvey Kaplan  
Richard Pierce Kaynor  
Catherine Ann Kelley  
Christine Anne Legere  
Christine Murphy  
Mark Pecevich  
Roberto da Cunha Penedo  
Carolyn Ward Poinier  
Rebecca Pauline Routh  
Patrick Albert Sibony  
Swift Tarbell III  
Rosamond Ellen Teto  
Jane Elizabeth Thayer  
Patricia Ann Thomas  
Linda Kay Wackwitz  
Matthew S. Zweig

**Class of 1973**  
Paulette Louise Archambault  
Alberto Ernesto Bonadona  
Heather Lee Burns  
Ida Cecile Dionne  
Edward Thomas Dore III  
Seth Joseph Dunn  
Hope Ilona Gottlieb  
Judy Beatrice Gundel  
Chrisanne Hall  
Wendy Knickerbocker  
Clifford Moore Lawrence, Jr.  
Warren Kimball Oakes  
Lewis Endor Paquin III  
Susan Jeanne Piciaro  
Gay Cameron Quimby  
Sarah Ellen Slaughter  
Joseph Colby Small  
Ingrid Ellen Svensson

**Class of 1974**  
Lisa Marie Brinkman  
Phyllis Ann Brown  
Lynne D’Orlando  
Catherine Mary Downes  
Mark Joel Goldman  
Ronda Fay Luce  
Brian Scott MacQuarrie
Thomas Newell Metcalf III
Patricia Rachal
Norman James Rattey, Jr.
Barbara Foster Ryder
Maryann Elizabeth Sartucci
Craig Lawrence Weston

Class of 1975
Philip Raymond Agress
Mary Jo Bastron
Joseph Whitney Bowen
Carolyn Theresa Deuringer

Gail Patricia Dixon
JoAnn Louise Fletcher
Craig Alan Houston
Wendy Laura King
Jennifer Mustard
George Leonard Neuberger, Jr.
Sharon Marden Rapp
Deborah Ann Seel
Bernice Margaret Smith
Robin Lee Urner
George Roland Watts III
Robert Patrick Wood
College Prizes 1971-72

GENERAL George F. Baker Scholarships. Awarded to sophomores (and usually reawarded to juniors) demonstrating high qualities of character and motivation, a high degree of recognition by their contemporaries, and superior mental competence.

ARTHUR LEWIS BELL '74, MICHAEL ROBERT CURRIE '74, THOMAS GEORGE GILL '74, DONALD ALTON JOSEPH '74, DONALD BRUCE LEVIS '74, ALFRED ALAN TRAVERS '74.

Bi[xler Bowl Award. Awarded to that fraternity which has as a group contributed most constructively to the overall work of the college program.

TAU DELTA PHI.

Bi[xler Scholarships. Awarded annually to top-ranking students, known as Bixler Scholars, in recognition of their academic achievements. The amount of each scholarship, which is not announced, is determined by need.

Frederick F. Brewster Honor Scholarships.

DAVID WILLIAM DE LONG '73, VINCENT GEORGE GUESS '73.

Colby Library Associates Book Prize.

JOHN PHILIP BUNKER, JR. '72.

Condon Medal. Gift of the late Randall J. Condon '86, awarded to the senior who, by vote of his classmates and approval by the faculty, is deemed "to have exhibited the finest qualities of citizenship and has made the most significant contribution to the development of college life."

MATTHEW S. ZWEIG '72.

Charles A. Dana Scholarships. Available to qualified sophomores, juniors, and seniors. The purpose of these scholarships is to identify and encourage students of good character with strong academic backgrounds who have given evidence of potential leadership traits. Each year, approximately sixty new Dana Scholars are selected.

Adelaide True Ellery Scholarship. Awarded to a woman for outstanding religious leadership. Awarded in 1971 for two years.

Lelia M. Forster Prizes. Awards are made to the freshman man and woman who, "by their academic performance, the respect they command from their classmates, and the constructive contribution they have made to life on the campus, have shown the character and ideals most likely to benefit society."

ROBERT PATRICK WOOD '75, LAURIE BETH FITTS '75.
Phyllis S. Fraser Scholarship. Presented by Alpha chapter of Sigma Kappa to a Colby son or daughter. Not awarded.

Josephine Bodurtha Gagnon Scholarship. Awarded annually by the Alpha Delta chapter of Alpha Delta Pi sorority on the basis of financial need, scholarship, and campus leadership. Jody St. Hilaire '74.

Lieutenant John Parker Holden, II, Award. For students who exemplify the ideals of citizenship, responsibility, integrity, and loyalty.
Brian Edwin Cone '73.

Donald P. Lake Award. Given to a senior whom the Varsity “C” Club selects for outstanding scholastic achievement, athletic leadership and ability.
Matthew S. Zweig '72.

Kim Miller Scholarship and Trophy. Given by the alumni and active chapter of Lambda Chi Alpha to an outstanding junior man who exemplifies the qualities of friendship, individualism, and leadership.
Luthene Gilman Kimball, Jr. '73.

Lorraine Morel Memorial Award. Given to a junior woman who, by her sense of purpose and service, has made significant contributions to the academic and social life of the campus.
Francesca Cecilia Gates '73.

George T. Nickerson Award. Presented by the Council of Fraternity Presidents to the fraternity that fosters to the greatest extent student, faculty, and administrative relations.
Lambda Chi Alpha.

Laurie Peterson Memorial Book Prize. Given to a junior government major who, through academic achievement and evidence of leadership and character, has made an outstanding contribution to the department.
Rebecca Hill Farnum '73.

Ninetta M. Runnals Scholarship. Awarded by Delta Alpha Upsilon to an undergraduate woman for scholastic performance, well-defined educational objectives, and community participation.
Stephanie Denise Maull '75.

Scott Paper Foundation Award for Leadership. Awarded to a sophomore man who has demonstrated outstanding scholarship, leadership, and participation in extracurricular activities.
Philip Henry DeFord '74.
Student Government Service Awards. Presented to a senior man, a senior woman, and a college employee for service to the college. Christopher Wayne Pinkham '72, Ellen Kinney '72, Elizabeth Kiralis, director of the college calendar.

Philip W. Tirabassi Memorial Award. A book awarded to a junior man who has "willingly assisted his classmates, promoted the best interests of the college, and maintained a superior academic average."
Lewis Endor Paquin III '73.

Carrie M. True Award. Given to a woman selected for pronounced religious leadership and influence on the life of the college.
Not awarded.

Waterville Area Colby Alumni Association Award. Presented for scholastic and personal achievement to a senior from the Waterville area.
Not awarded.

Administrative Science James J. Harris Prizes.
Stephen Chester Jasinski '73, William Peter Mayaka '73, Richard James Valone, Jr. '73.

Ernest L. Parsons Prizes.
John Christopher Atkinson '72, Harry Chandler Parker '72.

The Wall Street Journal Award in Finance.
Richard James Valone, Jr. '73.

Art and Architecture Architectural Model Prizes.
1st Prize: John Dekoven Alsop, Jr. '74, John Philip Bunker, Jr. '72.
2nd Prize: Nancy Marie Pergo '72, Kenelm Edward Winslow '74.
3rd Prize: Wilford Harold Neptune '74.

Charles Hovey Pepper Prize.
William Joseph Stanton '72.

Classics John B. Foster Prizes.
Christine Anne Legere '72, Rebecca Jane Nutter '72.

Dramatics Andrew Blodgett Award.
Not awarded.

Economics Departmental Prize in Economics.
Janice Marie O'Connell '72.
ENGLISH  Mary Low Carver Prizes for Poetry.
Women: 1st Prize: WENDY KNIKERBOCKER '73.
         2nd Prize: KATE ERDILEK MUHLHAUSEN '72.
Men: 1st Prize: KENNETH LLOYD WALDMAN '75.
         2nd Prize: THOMAS WILSON SIDAR '72.

George Adams Dietrich Award in Literature.
MARY ETTA ROBINSON '73.

Solomon Gallert Short Story Prizes.
1st Prize: RUSSELL HOPE HARRIS II '72.
2nd Prize: ELLEN LOUISE KORNETSKEY '73.

Elmira Nelson Jones Essay Prize.
WENDY KNIKERBOCKER '73.

HISTORY AND GOVERNMENT  The F. Harold Dubord Prize in Political Science.
SWIFT TARBEII III '72.

Paul A. Fullam History Prize.
CHRISTINE MURPHY '72.

Edward Lampert History Prizes.
SALLY CREIGHTON CHESTER '72, ELLEN Muzzy '72.

William J. Wilkinson History Prize.
RICHARD LAMB GAWTHROP '73.

MODERN LANGUAGES  Delta Phi Alpha German Prize.
Not awarded.

French Book Prizes.
JOHN ALBERT GUISLIN '72, REBECCA PAULINE ROUTH '72, BARBARA FOSTER RYDER '74, BARBARA RENE SENGES '72, SUSAN HOY TERRIO '72.

German Consulate Book Prizes.
CAROLYN LEE BREEDEN '75, JENNIFER MUSTARD '75.

Japanese Embassy Book Prizes.
KAREN DEE SAWITZ '74, CLIFFORD ANDREW WALKER '72.

Harrington Putnam German Prizes.
RANDI LOIS MERSHON '75, SANDRA JANE SPURR '74, FREDERICK WILLIAM VALONE '72, KAREN WINTRINGHAM '73.

Russian Book Prizes.
LUCY ALLEN '73, DEBRA RUTH BABBITT '74, PAULA MARIE CARMODY '75, IDA CECILE DIONNE '73, WENDY LAURA KING '75,
LINDA CHADWICK WATTS '75.

Spanish Book Prizes.
Not awarded.
MUSIC

Colby College Band Award.

Louis Fleming Fallon, Jr. '72.

Glee Club Award.

Elizabeth Jordan Sherer '72.

Alma Morrissette Award.

Karen Holm Sawyer '72.

Symphony Orchestra Awards.

Lucy Allen '73, Jane Elizabeth Ford '72, Peter Philip Schultz '74.

NATURAL SCIENCES

ACS Undergraduate Award in Analytic Chemistry.

Elizabeth Roberta Michaud '73.

American Institute of Chemists Medal.

Frederick William Valone '72.

The Webster Chester Biology Prize.

Ruth-Marie Edla Griswold '72.

Chi Epsilon Mu Prize in Chemistry.

Craig Alan Houston '75.

Departmental Prizes in Science.

Biology: Barbara Gertrud Friederike Hoene '73, Gordon Kennedy McLean '72, Ruth Anne Richards '74.

Chemistry: Jean Catherine Beckman '73, Judy Beatrice Gundel '73, Robert Hugh Huxter '74, Laureen Marie Ramonas '72.

Geology: Jonathan Harry Fink '73, Walter Daniel Lienhard '75, James Russell Putnam '73, Linda Kay Wackwitz '72, Pamela Jean Watson '74.

Mathematics: Richard Merle Beverage '73, David Denison Marshall '74, Susan Arlene Martin '72, Susan Jeanne Pinciaro '73.

Physics: Carolyn Dusty '74, Richard Portlock Giles '72, Siang Hong Tan '75.

Samuel R. Feldman Award for Premedical Studies.

Patricia Ann Thomas '72.

Mark Lederman Prize for Study of Medicine.

Timothy Stephen Carey '72.

Mark Lederman Scholarships in Biology.

Ronda Fay Luce '74, Karen Wintringham '73.

William A. Rogers Prize in Physics.

Francis Joseph Dunn '73.
PHILOSOPHY Naravane Essay Prizes.
Not awarded.

Stephen Coburn Pepper Prize in Philosophy.
MITCHELL HARVEY KAPLAN '73.

PUBLIC SPEAKING Coburn Speaking Prizes.
1st Prize: PORTIA GLENN IVIERSON '72.
2nd Prize: REGINALD GLENN BLAXTON '74.
3rd Prize: JOHN EDWARD HALPIN III '73.

Goodwin Public Speaking Prizes.
1st Prize: REBECCA LYNN ROSS '73.
2nd Prize: ELIZABETH JANE CORYDON '74.
3rd Prize: MICHAEL JOSEPH SZOSTAK '72.

Hamlin Speaking Prizes.
1st Prize: SARAH RUTH ROSENBERG '75.
2nd Prize: ROBERT STANLEY DUCHESNE, JR. '75.

Julius and Rachel Levine Speaking Prizes.
1st Prize: REBECCA LYNN ROSS '73.
2nd Prize: BRUCE DEVEREUX CUMMINGS '73.
3rd Prize: SARA ANN EARON '74.

Herbert Carlyle Libby Prize.
Not awarded.

Murray Debating Prizes.
1st Prize: BRUCE DEVEREUX CUMMINGS '73.
2nd Prize: ROBERT STANLEY DUCHESNE, JR. '75.

SOCIOLOGY Albion Woodbury Small Prizes.
MATTHEW STEELE LIVINGSTON '73, PAMELA ANN MAUSE '72.

ATHLETICS J. Seelye Bixler Award in Track.
ROBERT EDWIN HICKEY, JR. '72.

James Brudno Award in Track.
DUDLEY WALTER TOWNSLEY '72.

Coaches Awards.
Basketball: MATTHEW S. ZWEIG '72.
Football: ANDREW LIVINGSTON CAMPBELL '72.
Hockey: STEPHEN ANDREW SELF '72.

David W. Dobson Memorial Skiing Award.
PETER FREDERICK CROSBY '72.

Peter Doran Award in Track.
JAMES DOUGLAS PIERNER '74.
Paul F. “Ginger” Fraser Award for a Nonletterman in Football.
BRIAN LESLIE CLARK '75.
Free Throw Award in Basketball.
BRADFORD ARTHUR MOORE '74.
Robert LaFleur Memorial Basketball Award.
MATTHEW S. ZWEIG '72.
Gilbert F. “Mike” Loeb Soccer Award.
BRUCE CARTER FRISBIE '72.
Ellsworth W. Millett Award for Outstanding Contribution to Athletics over Four Years.
STEPHEN ANDREW SELF '72.
Ellsworth W. Millett Hockey Award.
STEPHEN ANDREW SELF '72.
Cy Perkins Track Award.
MALCOLM JAMES PERKINS '73.
Edward C. Roundy Memorial Baseball Award.
ALAN HOWARD GLASS '72.
Mike Ryan Track Award.
EDWARD ADAM SNYDER '75.
Theodore N. Shiro Basketball Award.
STEPHEN PAUL COLELLA '74.
Herbert E. Wadsworth Football Award.
DONALD ALTON JOSEPH '74.
Robert “Tink” Wagner Baseball Award.
DONALD RICHARD SHEEHY '74.
Norman E. Walker Hockey Award.
MARK MATTHEW O'CONNELL '74.
Norman R. White Leadership and Sportsmanship Award.
DANA WILLIAM FITTS '72, DAVID ALEXANDER GRAVES '72.
Interviewers for Admission 1972-73

ALABAMA
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Mr. Karl B. Ostendorf '66
A.C.S.C. Box 73-1688

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Dr. William V. Chase '62
Mrs. William V. Chase
(Barbara Haines '63)
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Dr. Randall L. Holden, Jr. '65
Mrs. Randall L. Holden, Jr.
(Pamela Harris '66)
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18524 Cottonwood

Fremont 94536
Mrs. S. Baines Howard '53
4882 Richmond Avenue

Huntington Beach 92646
Mrs. William Loveday
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20432 Clearwood Circle

Lafayette 94549
Mr. John W. E. Vollmer '60
Mrs. John W. E. Vollmer
(Janice Turner '62)
1623 Silver Dell

Los Altos 94022
Mrs. Lawrence W. Carr
(Janice Rideout '60)
24285 Summerhill

Santa Cruz 95060
Mr. Gary B. Miles '62
Mrs. Gary B. Miles
(Margaret Bone '62)
Kresge College
University of California

Santa Maria 93454
The Rev. Robert Peale '51
500 South Concepcion

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5909 Secrest Drive
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Mr. Ceylon L. Barclay '63
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Mrs. George Clymer
(Janet Kimball '57)
508 High Street 80218

Golden 80401
Mr. Lawrence Pugh '50
6 Decker Drive
Littleton 80122
Mr. Nathaniel Butler '63
Mrs. Nathaniel Butler
(Karen Moore '63)
6898 South Elizabeth Street

CONNECTICUT
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Darien 06820
Mr. Richard Aube '66
24 Park Lane

Kent 06757
Mr. John S. Perkins '66
Mrs. John S. Perkins
(Linda Brooks '68)
Kent School

Lakeville 06039
Mr. Arthur White '52
Hotchkiss School

Manchester 06040
Miss Paula McNamara '66
40 Durkin Street

Monroe 06468
Mr. Karl E. Decker '54
Mrs. Karl E. Decker
(Merrilyn Healy '54)
R.F.D. #5, Elm Street

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Mr. Edward I. Hulbert '58
58 Fountain Street, Apt. F1 06615
Mr. Henry N. Silverman '61
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Mrs. C. Arthur Eddy, Jr.
(Barbara Guernsey '54)
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(Jean Smith '59)

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Mr. Norman P. Lee '58
6 Paxton Road

Mr. Robert Roth '51
Mrs. Robert Roth
(Helen Palen '51)
96 Van Buren Avenue

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Mr. George M. Cain '66
88 Lyons Plains Road

Williamantic 06226
Mr. Thomas Callaghan '23
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Mrs. Roderick Farnham
(Margaret Davis '28)
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Fryeburg 04037
Mr. William B. Williamson II '71
Fryeburg Academy
Hallowell 04347
Mr. Larry Arber '30
2 Wilder Street
Holton 04730
Mrs. Ralph Howard
(Eleanor B. Ross '37)
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Mrs. Roland L. Russell
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Mr. Thomas Skolfield '59
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Miss Judith Jones '66
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Andover 01810
Mr. Leland Potter '67
Mrs. Leland Potter
(Linda Mitchell '66)
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Bedford 01730
Mr. Benjamin R. Sears '52
31 Sweetwater Avenue

Beverly 01915
Mr. Gerald Wolper '58
6 Berrywood Lane

Boston 02116
Miss Susan Nutter '66
75 Marlborough Street

Brockton 02401
Mr. Herbert Nagle '52
106 Crickett Road

Mr. Ronald J. Saad '65
75 Huntington Street

Brookline 02146
Mr. Leon T. Nelson '60
77 Pond Avenue, Apt. 1507

Cambridge 02139
Mr. John McGirr '67
74 Fayette Street

Canton 02021
Miss Alison Coady '65
25 Spring Lane

Concord 01742
Mr. Clifford A. Bean '51
10 Wood Street

Danvers 01923
Mr. Robert S. Lee '51
Hotwatt, Inc.
128 Maple Street

Dedham 02026
Mr. Whitford Bond '63
655 Westfield Street

Mr. Whiford Bond '63
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Hotwatt, Inc.
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Mr. Whiford Bond '63
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655 Westfield Street
Dover 02030
Mr. William C. Foehl '59
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Mrs. Stephen Gentle (Mary Ballantyne '62)
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Mr. George H. Lebherz, Jr. '52
61 Miami Avenue

Fitchburg 01420
Mr. Richard Fields '61
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980 River Street

Florence 01060
Mrs. Kiernan J. Murphy (Carol MacIver '55)
90 High Street

Great Barrington 01230
Mr. Robert E. Brolli '59
Mrs. Robert E. Brolli (Marcia Eck '62)
R.F.D. #3, Alford

Haverhill 01832
Miss Edith Emery '37
59 Chandler Street

Hingham 02043
Mr. Charles A. Pearce '49
957 Main Street

Mr. Harry F. G. Wey III '56
Mrs. Harry F. G. Wey III (Marilyn Brooks '56)
Boulder Glen

Lexington 02173
Mr. Benjamin C. Potter, Jr. '64
42 Middle Street

Longmeadow 01056
Mr. Norris Dibble '41
57 Farmington Avenue

Manchester 01944
Mr. David Bergquist '61
4 Harrington Way

Marblehead 01945
Mrs. Richard B. Canton (Marilyn Perkins '58)
12 Gallion Avenue

Mr. David Thaxter '62
13 Sagamore Road
Marshfield 02050
Mr. Fred J. Wetzel '65
82 Bayberry Road

Natick 01760
Mr. J. Cary Parsons '65
Mrs. J. Cary Parsons (Janice Wood '65)
15 Greenleaf Road

Newton 02158
Mr. Byron Petrakis '63
68 Dalby Street
Newton Highlands 02161
Mr. Marvin S. Joslow '48
74 Elinor Road
Newtonville 02160
Mr. Howard L. Ferguson '31
133 Lowell Avenue

Northampton 01060
Dr. David Morse, Jr. '52
Mrs. David Morse, Jr. (Deborah Brush '52)
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North Andover 01845
Mr. Douglas B. Allan (Elizabeth Swanton '33)
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Mr. Dennis Dionne '61
99 Raleigh Tavern Road
Northboro 01532
Mr. Brian Shacter '66
64 Cedar Hill Road

Norwood 02062
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Peabody 01962
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Mr. Frederick R. Boyle '51
267 Grove Street

Miss Cheryl Dubois '69
9 Tennyson Road

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Mr. Solomon J. Hartman '67
262 Western Avenue

Somerset 02736
Mr. Raymond J. Billington '54
Mrs. Raymond J. Billington (Priscilla Eaton '53)
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South Duxbury 02374
Mr. Richard G. Lucier '60
Chesnut Street

Springfield 01105
Mr. U. Cleal Cowing '27
369 Tremont Street

Stockbridge 01262
Mr. Starbuck Smith III '65
Mrs. Starbuck Smith III (Anna K. Owens '65)
Maple Street

Sudbury 01776
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Mrs. Douglas A. Davidson (Barbara Borchers '60)
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Mrs. Alton Lamont, Jr. (Joan Martin '52)
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Miss Judith Mosedale '68
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Wellesley 02181
Mr. John T. King '54
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305 South Street
East Rochester 03867
Mr. Ralph W. Hilton '44
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Haverhill 03745
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Mr. C. MacDonald Grout '54
Mrs. C. MacDonald Grout
(Eleanor Edmunds '56)

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Elnora 12065
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595 East Northport Road

Manhattan, L.I. 11030
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654 Madison Avenue 10021

Mr. Paul L. Marsolini '64
301 East 21st Street 10010
Miss Marsha F. Palmer '63
415 East 80th Street 10021
Miss Helen Strauss '45
240 East 79th Street 10021

Pelham Manor 10803
Mr. Robert L. Schultz '55
Mrs. Robert L. Schultz
(Xandra McCurdy '55)
25 Garden Road

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Mr. William B. Neil, Jr. '65
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Mrs. Kenneth Lane
(Lynne Murrell '70)
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(Beryl Baldwin '53)
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Mrs. David B. Pressman
(Madelyn Wechsler '53)
43 Berkshire Road

Mrs. Gerald Seidenberg
(Gloria Shine '48)
1 Forestdale Road

Scarsdale 10583
Mr. Henry K. Wingate '61
18 Tunstall Road

Schuylerville 12871
Miss Charlotte Killam '67
Ranger Road

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Dr. Anthony Arthur '54
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Mr. John Carvellas, Jr. '66
Mrs. John Carvellas, Jr.
(Elizabeth Savicki '68)
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Prof. David S. McKeith '55
Mrs. David S. McKeith

(Shirley Coatsworth '55)
32 Strowbridge Street

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Mrs. Robert Merriman
(Nancy Weare '52)
2226 Elderberry Drive

West Sand Lake 12196
Mr. Kenneth Van Praag '55

North Carolina
Raleigh 27609
Mr. Ray Deltz '49
5235 Knollwood Drive

Ohio
Cincinnati 45212
Mr. Peter S. Lowrey '53
8210 Margaret Lane

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Mr. Jeffrey Silverstein '70
2616 Mayfield Road 44106

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9082 Elberon

Granville 43023
Mr. George S. Wales '51
Route 1

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Mr. Ormande Brown '51
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Dr. Lawrence S. Kaplan '47
Kent State University

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Dr. Charles C. Leighton '60
John's Lane

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(Sally Phelan '59)
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Cheyney 19379
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Mrs. Thomas McK. Thomas
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Prof. David Crockett '52
Lafayette College

Gladwyne 19035
Mr. Richard Beal '51
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Sewickley 15143
Mr. Edward A. Waller '49
461 Maple Lane

Swarthmore 19081
Mr. J. Lawrence Eckel '66
620 Academy Road

Mrs. Clifford Henricksen
(Bonnie Zimmerman '66)
249 Havercroft Avenue

University Park 16802
Prof. Arthur Goldschmidt '59
Pennsylvania State University

Villanova 19085
Mr. Chester D. Harrington, Jr. '51
757 Newton Road

Rhode Island

Cumberland 02864
Mr. Norval E. Garnett '51
Mrs. Norval E. Garnett
(Norma Bergquist '52)
39 Bear Hill Road

Pawtucket 02860
Mr. John S. Baxter '58
41 Fiume Street

Saunderstown 02874
Mr. Courtney Davis '60
Box 63

South Dakota

Rapid City 57701
Mr. Thomas H. Hopgood '67
1622 Mt. Rushmore Road

Texas

Dallas

Mr. James S. Hall '50
3028 Royal Palms Court 75234

Mrs. Warren J. Randolph
(Leslie A. Wyman '57)
13320 Rolling Hills 75240

Mr. Alden E. Wagner '44
4054 McKinney 75204

Houston 77042
Mr. Lewis Krinsky '65
11015 Olympia

Utah

Delta 84624
Mrs. John Hilford
(Barbara Klein '57)
Box 731

Vermont

Essex Junction 05452
Mr. Michael D. Flynn '61
Mrs. Michael D. Flynn
(Joyce Dignam '62)
Rustic Drive, R.F.D. #2

Plainfield 05667
Mr. David S. O'Neil '51
Marsh-Plain Motel

Putney 05346
Miss Mary Adams '58
Fort Hill Road, R.F.D. #1

Virginia

Arlington 22201
Mrs. David T. Scheele
(Tracy Buxton '59)
3418 North Pershing Drive

Fairfax 22030
Mrs. Arthur W. Gatenby
(Eleanor G. Gray '57)
3193 Chichester Lane

Vienna 22180
Mrs. James T. Greenwood
(Colette Piquerez '57)
9306 Sibelius Drive

Virginia Beach 23451
Mrs. Robert M. Miner
(Deborah Nutter '68)
525 Fountain Lake Drive

Wisconsin

Eau Claire 54701
Mrs. Russell V. Brown
(Karen Jaffe '65)
115 Summit Avenue

Madison

Miss Rosemarie Carbino '62
2501 Calypso Road 53704

Mr. Bruce Davey '65
Mrs. Bruce Davey
(Margaret Chandler '65)
518 Virginia Terrace 53705

Miss Judith deLuce '68
501 North Henry Street 53703

Canada

Toronto 18, Ontario
Mr. Andrew M. Hayashi '70
Mrs. Andrew M. Hayashi
(Sandra J. Holler '70)
520 Prince Edward Drive
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FIRST SEMESTER
Thursday, September 6
Freshman program begins
Sunday, September 9
Upperclass registration
Monday, September 10
First classes
Saturday, September 29
Homecoming
Saturday, October 13 through
Upperclass Parents Weekend
Sunday, October 14
Saturday, November 3 through
Freshmen Parents Weekend
Sunday, November 4
Friday, November 16, 5:30 P.M. to
Thanksgiving recess
Monday, November 26, 8:00 A.M.
Tuesday, December 11
Last classes of first semester
Friday, December 14 through
Examinations
Thursday, December 20
Friday, December 21
Make-up examinations
Thursday, January 3 through
January Program
Thursday, January 31
SECOND SEMESTER
Sunday, February 10
Registration
Monday, February 11
First classes
Friday, March 29, 5:30 P.M. to
Spring vacation
Monday, April 8, 8:00 A.M.
Monday, May 6 through
Reading period for 300 & 400 courses
Friday, May 17
Friday, May 10
Monday, May 6 through
Spring registration
Friday, May 17
Friday, May 10
Monday, May 20 through
Last classes for 100 & 200 courses
Wednesday, May 29
Final examinations
Sunday, June 2
Commencement

The college reserves the right in its sole judgment to make changes of any nature in its program, calendar, or academic schedule whenever it is deemed necessary or desirable, including changes in course content, the rescheduling of classes with or without extending the usual academic term, cancellation of scheduled classes and other academic activities, and requiring or affording alternatives for scheduled classes or other academic activities, in any such case giving such notice thereof as is reasonably practicable under the circumstances.
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Note: The table represents a calendar for the years 1973, 1974, and 1975, showing the days of the week for each month and the dates corresponding to each day.