1971

Colby College Catalogue 1971 - 1972

Colby College

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RECORDS AND TRANSCRIPTS
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CHARLES F. HICKOX, JR., Director of Financial Aid and Coordinator of Government Supported Programs

VETERANS' AFFAIRS
GEORGE L. COLEMAN, Registrar

A booklet, ABOUT 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
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1  GENERAL INFORMATION

6  COLBY YESTERDAY AND TODAY
11  THE CAMPUS
13  THE LIBRARY
14  THE ACADEMIC PROGRAM
29  ADMISSION
33  ORIENTATION FOR FRESHMEN
34  FEES AND FINANCIAL AID
41  STUDENT LIFE AND ACTIVITIES
## Colby College

The President and Trustees of Colby College

### Corporate Name

The President and Trustees of Colby College

### Legal Basis

Chartered as Maine Literary and Theological Institution by the General Court of Massachusetts, February 27, 1813. 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.

### Function

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

### Degree Conferred

Bachelor of Arts.

### Enrollment

800 men, 700 women.

### Faculty

132 full and part time.

### Endowment

$17,140,444 (book value as of June 30, 1970).

### Library

Over 300,000 volumes, and 16,000 microtexts; 1,000 current subscriptions to periodicals.

### Accreditation

Accredited by the New England Association of Colleges and Secondary Schools. 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.

### Location

Colby Yesterday and Today

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, providing 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 1,200 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 exceeds 130. Endowment has increased from three million to seventeen 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 liberal arts education, experimenting with new educational programs — enriching the traditional liberal arts program while remaining responsive to a changing universe.

<table>
<thead>
<tr>
<th>PRESIDENTS</th>
<th>1822-1833</th>
<th>JEREMIAH CHAPLIN</th>
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<tr>
<td></td>
<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>1843-1853</td>
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<td>1854-1857</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 SEELEY BIXLER</td>
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<td></td>
<td>1960-</td>
<td>ROBERT EDWARD LEE STRIDER, II</td>
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</tbody>
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Colby is a coeducational undergraduate college of liberal arts, “committed,” to quote the inaugural address of President Strider, “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, in short, the pursuit of truth, free and unrestricted, for truth itself is almost infinitely various.”

In addition to a comprehensive investigation of our heri-
tage the Colby student is given an opportunity to explore thoroughly a major field of study. He is encouraged to choose a major which affords him the greatest intellectual stimulation, rather than one which he can necessarily “use” after graduation. Colby does not prepare a student for a particular vocation but rather for any vocation, as well as for a full and rewarding life in the contemporary world.

It is the philosophy of the college that responsibility be given the student in the regulation of social life and daily living and in the academic program. Toward this end advising, guidance, and counseling are available. The recommendations of the Constitutional Convention in the fall of 1969, adopted by the board of trustees, revised the governmental structure of the college to make possible a healthy and fruitful sharing of responsibility in the reaching of decisions. Through work on committees at both the faculty and board level, 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, in effect now for almost a decade, encourages the student to acquire both 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 further graduate study in preparation for the professions. Each year an increasing number of Colby graduates enter medical, law, and divinity schools, graduate schools of education, engineering and business, graduate schools of art and sciences.

On the occasion of the college's 150th anniversary in 1962-63, 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 mega-
lopolis 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 1970s Colby College intends to maintain this commitment.
The Campus

In 1952, Colby completed its move from a 100-year-old campus in downtown Waterville to Mayflower Hill, two miles west of the city. Today thirty-eight buildings stand on a campus of about 1,200 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 13.

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 are also faculty offices, laboratories for modern languages and psychology, an auditorium, and headquarters for the Air Force ROTC program.

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. The college's permanent collection of paintings, sculpture and other arts, and traveling exhibitions, are regularly shown in the Jetté Gallery of the Colby College Museum. The Given Auditorium is acoustically designed for musical performances and is used for chamber music and film showings.

Colby women are housed in Mary Low, Foss, Dana, East (made up of three units: Small, Champlin, and Butler), Sturtevant, and Taylor halls, and Roberts Union. Housing for men is found in Averill, Coburn, Johnson, Leonard, Marriner, West (comprised of Robins, Chaplin, and Pepper), and Woodman halls and in eight fraternity houses: Delta Kappa Epsilon, Zeta Psi, Delta Upsilon, Phi Delta Theta, Alpha Tau Omega, Tau Delta Phi, Lambda Chi
Alpha, and Kappa Delta Rho. All dining is coeducational. Roberts Union also houses the Sherman M. Perry Infirmary, student organization offices, lounges, the Seaverns Bookstore, and the Paper Wall, a room set aside for informal entertainment and refreshment, used primarily on weekends. The Ninetta F. Runnals Union is a center for social events and contains a gymnasium with stage for dramatics and lectures.

Athletic 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 court) the swimming pool, a weight training room, and a dance studio.

Outdoors there are some fifty acres of playing fields: two football fields, two baseball diamonds; a soccer field; fourteen tennis courts, and space for field hockey, archery, and informal games. Approximately three miles from campus, the college owns a ski area which has a T-bar, rope tow, night-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 ideal working conditions 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 300,000 volumes. The microfilm collection is extensive and the library has subscriptions to more than 1,000 journals. The federal government provides many of its publications and a regional document library provides easy access to other government publications.

Special collections of first editions and manuscripts in the Colby library have achieved international recognition. The Edwin Arlington Robinson Room, named for the great Maine poet, contains his books, manuscripts, and personal papers. The Thomas Hardy collection, also in the room, is considered one of the most extensive in the 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 autographed letters of William Butler Yeats, Sean O'Casey, James Joyce, 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

DIVISIONS OF INSTRUCTION

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 biology, chemistry, geology, mathematics, physics, astronomy, computer science, and geophysical 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’S PROGRAM

The student at Colby normally takes from 12 to 18 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.

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**

A minimum of 105 credit hours and eight semesters of residence, plus credit for four semesters of physical education.

1The graduation requirements detailed here are those adopted by the faculty in April of 1969, applicable to the students of the class of 1973 and succeeding classes.

Changes were made in requirements with regard to quantity, quality, distribution (requirements in *English Composition and Literature* and the *area requirements*), and residence.

The older requirements, applicable in full to the class of 1969, were last listed in the *Bulletins* of September 1968 and May 1969. The change from one set of requirements to the other affects students in the classes of 1970, '71, and '72 generally in proportion to the number of years of college work still lying ahead of them at the close of the 1968-69 academic year.

The registrar's office has a supply of mimeographed *Auxiliary Information* bulletins for reference by members of the affected classes. It outlines a "sliding scale" of requirements.

Any questions of interpretation should be referred to the registrar's office.

It may be noted that students who had completed 60 or more credits by June of 1969 retain the option of completing their degree requirements either under the old requirements (see September 1968 *Catalogue*) or according to the new scale for their class. The set chosen is to be met in all details.

The net effect of the changes is to raise the quality requirement slightly at the same time that the minimum quantity requirement is lowered and the distribution requirements liberalized.

2See section on residence requirement for rules applicable to transferred credits.
QUALITY

A two-point average in all Colby courses presented to meet the quantity requirement.

This demands a C average among courses presented to qualify for graduation. Additional uncompensated D's neither aid nor disqualify the student; credit hours in such courses are recorded but are irrelevant to the quantity and quality standards for graduation.

DISTRIBUTION REQUIREMENTS

I ALL COLLEGE REQUIREMENTS

A. English Composition and Literature: 6 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 (a) attaining before entrance a sufficiently high score in a College Entrance Examination Board foreign language achievement test (600 for class of '75) or (b) passing an achievement examination testing ability to read the language proficiently.

(2) Successful completion of three credit hours in courses numbered above 113 in an ancient or modern foreign language offered at Colby College.

(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.
Award-winning dormitory complex
Championship meet, Fieldhouse
Runnals Union
II AREA REQUIREMENTS

A minimum of 6 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
Dance Composition
English (except 111, 112; 113, 114; 115; 131d, and 152)
Greek
Latin
Modern Languages (except 111, 112, 113, 114 courses)
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

Biology
Chemistry
Computer Science
Geology
Geophysical Science
Mathematics
Physics and Astronomy

C. SOCIAL SCIENCES

Administrative Science
Ancient History
Economics
Education
Government
History
Philosophy and Religion (except courses listed among the humanities)
Psychology
Social Science 121, 122
Sociology
Completion of freshman and sophomore physical education requirements is required for graduation. The sophomore requirement may be waived by the Department of Physical Education.

Candidates for the degree must have eight semesters in residence or be transfer students who have earned 53 credit hours at Colby and who have been resident students for at least two years — one the senior year.

While the curriculum of the college is planned on the expectation that students will be at the college for four full years, provision is made for the acceptance of transfer credits from other institutions.

Fifteen approved credits from Advanced Placement work (CEEB), from summer study, or obtained in residence at another institution may be substituted for one semester in residence at Colby. A maximum of four such semesters may be offered for transfer credit.

One, but only one, of these semesters may consist of at least 9 transferable credits combined with no more than 6 Colby credits. The latter must be of at least C-average quality and may not be counted again as Colby credits toward the minimum graduation requirement.

For each semester of transfer credit so accepted, 13 credits are counted toward the 105 hour credit hour minimum for graduation.

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

When appropriate, either all college or area requirements, as well as certain requirements for the major, may be absolved by examination without course enrollment at the discretion of the department concerned.

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 requirement or that 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 first 2 courses; 2 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 12 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 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.

**INTERDEPARTMENTAL MAJORS**

<table>
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<th>Administrative Science</th>
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<tr>
<td>Mathematics</td>
<td>Classics — Philosophy</td>
</tr>
<tr>
<td>American Studies</td>
<td>East Asian Studies</td>
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</tbody>
</table>
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.

In the academic year 1961-62 Colby introduced an educational experiment with its January Program of Independent Study. The 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 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, under the guidance of a single instructor, throughout the period. Free from the conflicting demands of the usual schedule, he may pursue his thoughts and researches 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.

The program for juniors and seniors is directed by the
major departments, but emphasis remains on the basic unity of each student's program.

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.

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**SENIOR SCHOLARS**

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 6 credit hours per semester.

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**CENTER FOR COORDINATED STUDIES**

The Center for Coordinated Studies, which opened in 1969, is an experimental unit designed to promote new programs of study and new modes of relationship among faculty members and students. It has three major objectives: (1) create, through interdepartmental programs of study, more coherent patterns for a liberal arts education; (2) create and sustain a greater degree of responsiveness between students and faculty in the design and conduct of curriculum; (3) create a more pervasive learning environment for students.

Located in coeducationally-grouped residence halls, the Center provides space for classrooms, offices, living and dining. There students and faculty members design courses of study within areas of common interest. These have included in the past: Intensive Studies in Western Civilization (Homer and History; Darwinism: the Impact of the Concept of Evolution on Modern Thought and Historical Development; Tragedy in Historical Context; Existential Thought and Literature); Studies in Human Development; Bilingual and Bicultural Studies; East Asian Studies. The programs reflect the needs and experience of the participants. Areas and the courses within them, therefore, are subject to modification or change at any time during the year.
Students who join the Center must devote a good portion of their academic schedules and their energies to its activities and demonstrate a continuing, active concern for improvement in living arrangements as well as 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. Cost of the year abroad, for approved students, is the same as the cost of tuition, room, board, and fees for a year at the college. Details of the program are available from Colby's Department of Modern Foreign Languages.

Opportunities for study abroad in other countries than France 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. Students must apply, on forms provided by the committee, before or immediately after the mid-year examination period of their sophomore year, and only after having arranged details of their plan with their major advisers.

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 have been established with other colleges, including one with Robert College, Istanbul, 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 who do not require financial aid 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; credit will be suspended 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 students are permitted voluntarily to change 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 18 hours unless a 6-course program exceeds this total. No student whose over-all grade point average in all courses taken in the previous semester is below 1.8 may elect more than 15 hours unless a 5-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.

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.

Adults who are not students of the college may register to audit courses at a fee of five dollars each semester for each credit hour, provided they obtain written consent of the instructor and of the dean of the faculty. Members of the college staff and their families may register 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 or request 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. 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 75 per cent 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
ACADEMIC STANDING

A student's class standing is determined by the faculty's 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.

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 examination.

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.

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) which 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. With prior permission, granted by the dean of students on receipt of appropriate recommendations from academic advisers, students enrolled in the college may receive credit for work in Junior Year Abroad programs, in an exchange semester, or in approved summer school courses. No student may receive credit toward graduation for more than 14 credit hours taken in summer school for the purpose of making up deficiencies.

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 size of the entering class is limited, and each year the number of acceptable candidates exceeds the number of freshman openings. The college is, therefore, selective. The academic record of an applicant, the degree to which he has demonstrated intellectual curiosity, and evidence of his motivation are of primary significance; also important are his health, character, and personality. Colby is interested in candidates of academic ability who have demonstrated interest and participation beyond the routine scope of their studies.

The college actively seeks applicants who represent diverse geographical, racial, and economic backgrounds, and who are within acceptable ranges of academic ability and preparation. No person is excluded on grounds of race, color, religion or national origin.

The quality of a candidate's preparation is judged by his academic record, the recommendations of his 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).

The New England Association of Colleges and Secondary Schools accredits schools in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school 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 schools meet the standards of membership. Accreditation lends authority to records and recommendations received from the applicant's secondary school.

(1) Application is made on forms provided by the admissions office prior to February 1 of the year admission is desired. A nonrefundable fee of $20 accompanies applications.
(2) Colby subscribes to the first choice early decision plan of the CEEB for well qualified applicants. Under this plan the candidate certifies that Colby is his first choice, and that he will accept an offer of admission if it is extended, provided it includes adequate financial aid, if needed. A candidate applies under early decision to Colby alone. He may initiate regular (not early decision) applications to other colleges, but agrees to withdraw them when notified of acceptance by Colby. Candidates may apply for early decision and financial aid no later than November 1 and should submit aptitude and achievement tests taken before the fall of the senior year. College notification of action, including the decision on the application for financial aid, is normally given no later than December 1, and successful candidates are exempted from further admission tests, except for placement purposes. 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 campus 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 the first two weeks of 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 as follows:

November 1: Deadline for filing for early decision and for 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 for financial aid.

Mid-April: Notification of actions by admissions committee to regular applicants.
May 1: Accepted applicants must confirm intention to attend Colby by payment of a nonrefundable advance tuition deposit of $100.

**COLLEGE BOARD TESTS**

All candidates are required 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 not later than December or January of the senior year. The Achievement Tests should include English composition and two others of the candidate's choice, taken not later than January of the senior year.

A language achievement test for placement purposes may be submitted any time prior to registration in September. A score of 600 on the language tests meets the college language graduation requirement.

The **CEEB** tests are given at centers in the United States and foreign countries. Application for tests may be made to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or Box 1025, Berkeley, California 94701.

**ADVANCED STANDING**

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.

**EARLY ADMISSION**

A small number of students are admitted 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 college in earlier-than-usual admission.
TRANSFER STUDENTS AND VETERANS

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.

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.

Veterans may request advanced standing consideration for completion of service schools or USAFI courses in advance of matriculation. Credit is not granted for military service or College Level General Educational Development Tests.

NONMATRICULATED STUDENTS

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 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.
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.

**READING TESTS**

Tests during orientation week determine levels of speed and comprehension in reading. Those deficient are offered assistance in a developmental reading program.

**PLACEMENT IN MATHEMATICS**

Tests are scheduled for freshmen who have not taken 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 prerequisite.

**PLACEMENT IN FOREIGN LANGUAGES**

The college language requirement is met at entrance by a score of 600 or more on the CEEB Language Achievement Test.

Students continuing a foreign language in college are placed on the basis of the language achievement test. Students presenting two or more units of the language for entrance credit are normally expected to enroll in a course at the 113, 114 level or higher. However, a student with only two years of the language may, upon recommendation of the department, enroll in the elementary course for credit.

In the case of Latin, those with not more than two years of the language, all completed prior to the last two years of secondary school, may, with the approval of the department chairman, take elementary Latin for credit.
Fees and Financial Aid

ANNUAL STUDENT CHARGES
1971-1972

Tuition $2,500
Board 650
Room 500
Dormitory Damage Deposit1 15
General Fee2 160

TOTAL $8,825

CALENDAR OF PAYMENTS
1971-1972

Upon acceptance for admission

<table>
<thead>
<tr>
<th>First Semester</th>
<th>On or before</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 31</td>
<td>One-half of annual student charges for tuition, board and room plus the dormitory damage deposit and the general fee for the year $2,000' (Note: Admission, attendance and room deposits as paid, may be deducted from this first semester payment.)</td>
</tr>
<tr>
<td>November 30</td>
<td>First semester bill (following pages)</td>
</tr>
</tbody>
</table>

SECOND SEMESTER
On or before

| January 20    | One-half of annual student charges for tuition, board and room $1,825' |
| March 31      | Second semester bill |
| April 15      | Room deposit for following year $50 |

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

1The dormitory damage deposit does not apply to residents of fraternity houses.

2Includes sickness and accident insurance, and student activities fee.

3Students who are permitted to eat or live off campus may deduct $825 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 $325 for board or $250 for room from the amount due in advance of the second semester.

FEES AND CHARGES EXPLAINED

DEPOSITS

Admission Deposit – Freshmen: A non-refundable 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 before August 1.

Attendance Deposit: A non-refundable deposit of $200 is required of all upperclass students on or before July 31 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 9 to 18 credit hours and must be paid prior to each semester in accordance with the calendar of payments. For schedules of fewer than 9 hours and for hours in excess of 18, the tuition charge is $95 per credit hour. The tuition charge for hours in excess of 18 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 $325 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 $160 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.

**Accident and Sickness Insurance:** All students are required to have adequate accident and sickness insurance coverage. Coverage is provided in a group insurance policy. The premium for this coverage is included in the general fee. Details of the insurance plan are mailed to all parents during the summer.

Students having other comparable coverage and who do not wish the additional protection of the compulsory student insurance program — including the major medical supplement — must make written application for waiver at the office of the treasurer each year prior to the opening of college. Colby College cannot assume responsibility for serious accidents and illness not covered by appropriate insurance.

**Health Service:** Free service in the Sherman M. Perry Infirmary is provided for a total of two weeks in any college year. Students not covered by the college group accident and sickness insurance are charged $4 per day for infirmary care beyond the two-week free period. Non-boarding students are charged $4 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 due 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. The semester bill also itemizes all previous semester charges and credits, thereby providing a complete record of the student’s account for the entire semester.

MISCELLANEOUS The fee for each semester hour in excess of 18 hours per semester is $95 per hour.

A chemistry laboratory fee of $20 per course is charged on the first semester bill. 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 is charged on the semester bill and applies whether the student resides in the fraternity house or not. The amount of the fee 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 one dollar 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**

To students drafted into the armed services before the end of a semester, a pro-rata charge for tuition, board, room and fees will be made.

To all other students, 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 is 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 $24 per full or partial week. No reduction is made for periods less than a full week.

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

**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 and mailed, 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.

### FINANCIAL AID

Each year Colby undergraduates are awarded more than $800,000 in gift scholarships and self-help (jobs and loans). The amount of financial assistance that a student receives is based on need, which is determined by analysis of the *Parents' Confidential Statement*, a questionnaire designed and processed by the College Scholarship Service of Princeton, New Jersey.

Entering freshmen make application for financial aid by sending the completed P.C.S. to Princeton by February 15. Upperclassmen complete preliminary applications each spring, before Easter recess, and submit the P.C.S. to the financial aid office by April 20.

**GIFT SCHOLARSHIPS**

Over $500,000 is granted annually from income derived from endowments, and from scholarship funds donated by alumni, friends and such outside sources as the Sloan Foundation, Hathaway-Warnaco, the Reader's Digest, Travelli, and Dana Scholarships.

**SELF-HELP CAMPUS JOBS**

Approximately 250 students are employed as cafeteria workers, librarians, and receptionists. 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 as credit toward his semester bill.

**WORK-STUDY PROGRAM**

This program, federally funded, is primarily designed to assist students from families of moderately low income. Employment is ordinarily in off-campus jobs with youth organizations, poverty programs, and hospitals. 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 7% interest rate that accrues only upon graduation. Application is initiated by the student through his own home bank.

(2) The National Defense Student Loan, federally funded but administered by the college, is intended to aid students whose gross family income is less than $10,000. Because these funds are limited by federal appropriation relatively few 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 a 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.

Financial aid is granted each semester and renewal is contingent upon continuing scholastic achievement, satisfactory citizenship, and financial need.

More complete information regarding financial aid may be found in the Student Government Handbook, or in the brochure Financial Aid at Colby which is available at both the Admissions and Financial Aid offices.
Student Life and Activities

Although Colby has for some time been independent of formal affiliation with any religious denomination, the college is proud of its Baptist heritage. With their insistence on religious liberty and the right to private conscience, the Baptist founders of Colby endowed it with values and principles which still invigorate its program. The college has a full time chaplain.

There are no required religious services. It is a conviction at Colby that religious influence is best exerted by persuasion rather than by compulsion.

Each Sunday a worship service is held with the college choir and a sermon by the chaplain, a visiting theologian, member of the faculty, or a student.

A ministry to the college community is carried on by an ecumenical team consisting of the Chaplain to the College, the rabbi of the local Jewish congregation, a Roman Catholic priest, and the Rector of the Episcopal parish in Waterville. The members of the ministry conduct a program of religious services, discussion meetings, and are available for personal counseling.

*Working Together*, a community service project sponsored by the Chaplain, recruits and organizes students for volunteer work in a school for retarded children, Thayer Hospital, the Boys Club, and the Big Brother and Big Sister program.

Many Colby graduates have entered the ministry, and the list of missionaries is especially impressive. The missionary tablet in the Rose Memorial 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 two lecture series — the Guy P. Gannett and Gabrielson — 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
topics. The Winthrop H. Smith Visiting Scholars Program brings to the campus each year a distinguished speaker for two or three days to lecture, speak in classes, and meet informally with students and faculty. The Clara Southworth endowed lectureship 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 which relate to the way in which men live." The Lovejoy Convocation annually honors a member of the newspaper profession.


Musical organizations which offer opportunities in vocal and instrumental music are the Colby Community Symphony Orchestra, the glee club, the band, all under faculty direction and carrying academic credits. Other groups under faculty direction are the chapel choir and the brass choir.

There are also informal groups: the Colby Eight, the Colbyettes, and the Baroque Society.

Recitals are presented frequently on the Mellon Organ in Lorimer Chapel.

The Colby Music Associates offered performances by I Solisti di Zagreb, the Guarneri String Quartet, and "An Evening of Opera." A similar series sponsored by Student Government brought Aleksander Slobodyanik, Claude Frank, Gyorgy Sandor and Murray Perahia (all pianists) for separate recitals; the Hungarian String Quartet; Jaime and Ruth Laredo, violinist and pianist; as well as three concerts by Music from Marlboro ensembles.

Beginning in the academic year 1971-72, concerts are being arranged by a new student-college-community group,
the Colby Music Series, which replaces previous organizations.

The college presented three concerts by the Colby Community Symphony Orchestra; a combined concert by the orchestra, glee club, and Waterville Area Community Chorus; a program by the Colby Band; an organ recital by Heinz Wunderlich; piano concerts by Tibor Yusti, artist-in-residence; a recital by Dorothy Spurling, soprano; several student programs; and, under the sponsorship of Student Government, performances by Poco, Bread, Glory River, Mother Flag and Country, Al Kooper, Rahsaan Roland Kirk and Richie Havens.

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 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.

The Friends of Art at Colby, organized in 1959, make substantial contributions to the overall art program throughout the year. The organization has been instrumental in building the permanent collection.

Among the 1970-71 exhibitions were *Works by Waldo Peirce from the Museum's Permanent Collection; 25th Anniversary Exhibition of the Skowhegan School of Painting and Sculpture; Drawings by the Faculty, Visiting Artists and Alumni; Selections from the Bernat Collection; Rubbings from English Tomb Monuments made by William, Margaret and Charlotte Miller; Student Arts Festival Exhibition; Harriett Matthews-Stuart Ross: Recent Work; and Arts of Africa, Oceania and the Americas from the Collection of Mr. and Mrs. Morton I. Sosland.*
In addition to the studio courses in the regular curriculum three workshops are maintained for extra-curricular activities in film making, ceramics, and typography.

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. Several plays produced by students are presented each year. History of drama courses are offered by the English department. The 1970-71 Powder and Wig repertoire included Antigone (Sophocles), The Swindling Affairs of Ivar Kreuger (Bergquist and Bendrik), and Spoon River (Aidman-Masters). Student productions were The Roar of the Greasepaint, the Smell of the Crowd and Stof the World, I Want to Get Off (Anthony Newley).

SPEECH AND DEBATE

A tradition of public speaking has resulted in the endowment of prizes for several speaking 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.

FILM

A film society, Film Direction, formed in 1962 by students and faculty, brings to the campus films of high quality in various film genres. In addition are regular movie showings by Sunday Cinema and films brought by departments.

FRATERNITIES AND SORORITIES

Colby recognizes the fraternity system as a cooperative feature of campus life. There are chapters of nine national fraternities, three national sororities, and one local sorority. Eight of the fraternities occupy separate houses on the campus, controlled by prudential committees on which the fraternity, alumni association, the local chapter, and the college are represented.

Members of one fraternity are quartered in a dormitory. Sororities do not have houses, but each chapter has a room in Runnals Union.
Fraternities are bonded together through the Council of Fraternity Presidents. In order of their founding, they 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, Delta Alpha Upsilon (local, formerly Delta Delta Delta), and Alpha Delta Pi.

The board of trustees requires that fraternities and sororities be able to satisfy the board that they have the right to select their members without regard to race, religion or national origin. The societies must meet this requirement to remain active at Colby, either as national affiliates or local groups.

More than fifty student organizations are active on campus. Some have religious affiliation while others are academic in nature. Among the latter are the Spanish and German Clubs, Chi Epsilon Mu (chemistry), Delta Phi Alpha (German), Phi Sigma Iota (Romance language), and the Forensic Society. College publications include the weekly newspaper, The Echo; the yearbook, The Oracle; and Pequod, the literary magazine.

The service organizations are Blue Key, Student Judicial Board, the Pan-Hellenic Council, and the Council of Fraternity Presidents (formerly the Interfraternity Council).

Other groups are the Arnold Air Society, Chess Club, German Folk Song Society, Film Direction, Colby Graphic Arts Workshop, Modern Dance Club, Darkroom Associates, Eidos, International Relations and Outing clubs, Radio Colby, and the Women's Athletic Association.

There are other societies and clubs described in this section of the catalogue under their appropriate headings.

In addition, each class acts as an organization, with elected officials. Overseeing student activities is the Student Government, which plays an important and integral part in the life of the college.
GENERAL REGULATIONS

Rules concerning student residence, organizations, social activities and intercollegiate athletics are published in the Student Handbook. All students are held responsible for knowledge of these regulations as well as for those in the annual catalogue.

Colby College is concerned as much with the social habits and character of its students as with their academic standing. 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

(1) 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.

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

Medical excuses are issued only to students who fall within one of four classifications:

i. Those confined to the college infirmary or hospital because of illness or surgery.

ii. Students treated by the medical staff at the dispensary infirmary, or hospital.

iii. Students visited by the college physician in dormitories or other places of residence.

iv. Women students confined to their dormitory for not longer than 24 hours.
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.

(3) 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.

(4) 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 members of this community work together under a systematic program, elaborated by faculty and trustees with the participation of students, which is designed to aid all members of the community to grow not only intellectually but also personally.

Under the direction of the trustees, the various components of the college, including the organs of student government, have extensive autonomy in the formulation of specific standards, rules, and sanctions aimed at enhancing the possibilities for the strengthening of the community and for encouraging the intellectual and moral vitality of its members.

Colby College assumes that those who accept an offer of admission to the student body recognize the existence of this community structure and undertake to orient their styles of living so as to make them compatible with the rights and needs of others as expressed in the basic community pattern. The college also assumes that those who have accepted admission as students are able and intend to conduct themselves with a maturity and responsibility consistent with the basic community pattern of values, standards, and day-to-day working rules.

Members of the community have a right to expect to be
able to work in tranquillity. Students have a right to expect to be able to study and rest in dormitories where social life is regulated to insure an atmosphere conducive to such work and rest.

The college also respects the laws and ordinances for personal behavior promulgated by the authorities of the civil jurisdictions within which the college lies, and will not condone violations of such civil standards.

The college has always encouraged temperance in the consumption of alcoholic beverages. While older rules forbidding the consumption of alcohol on campus have been modified in recent years, the college still stresses the need for prudence in this area. The laws of the State of Maine forbid possession of alcoholic beverages by any person under the age of 20. Where drinking leads to disruptive behavior, a student faces sanctions.

Colby College does not tolerate violations of federal or state drug laws, nor does it tolerate unauthorized experimentation by its students with drugs. Such violations or experimentation may result in dismissal from the college.

**HEALTH POLICY**

The college reserves the right to require the student to withdraw for medical reasons on recommendation of the college physician if in the opinion of the physician such student becomes unable satisfactorily to carry on normal student functions, or when his presence is or may become a hazard to himself or others.

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

**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.

Freshmen are not permitted to have cars on campus and
upperclass 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.

MARIED STUDENTS Colby College has no facilities for housing married couples. Individual married students not living with their spouses are urged to find off-campus accommodations. In certain cases, however, with permission from the deans' office, they may be housed in college dormitories.

SPECIAL DIETS Short-term arrangements are made for special diets at the request of the college physician.

HOUSING AND STUDENT LIVING Students are housed in twenty-six living units: eighteen college residences (nine housing women, nine housing men) and eight fraternity houses. A limited number of students are permitted to live off campus, with permission from their parents and the deans of students. Colby has no coeducational 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 oversees the physical fabric and security of its buildings.
Divisions, Departments, and Courses of Study
II DIVISIONS, DEPARTMENTS, AND COURSES OF STUDY

53 DIVISIONS, DEPARTMENTS

HUMANITIES, 54
SOCIAL SCIENCES, 57
NATURAL SCIENCES, 63
AEROSPACE STUDIES, 69
PHYSICAL EDUCATION AND ATHLETICS, 69
SPECIAL PROGRAMS, 71

73 COURSES OF STUDY

145 PREPARATION FOR GRADUATE AND PROFESSIONAL SCHOOLS
Divisions, Departments, and Courses of Study

The courses are offered within five divisions as follows:

**DIVISION OF HUMANITIES**

Divisional courses in humanities and courses in the following departments: 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 social science and 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 below, members of the active faculty for the academic year 1970-71 are listed.
Division of Humanities

*Chairman, Professor Howard*

**INTERDEPARTMENTAL MAJORS**

Interdepartmental majors are offered in classics-English and classics-philosophy and in American studies (see the Division of Social Sciences).

*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 122 or three years of Greek.

*Requirements for the major in classics-philosophy*

*In classics*: either three years of Latin above the level of 122 or three years of Greek, subject to departmental approval.

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

The point scale for retention of each of the above majors applies to all courses that may be credited toward the major.

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*Chairman, Professor Carpenter*

Professor Carpenter; Associate Professor Miller; Assistant Professors Meader, Matthews, and Ross.

*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, 372, 411; additional courses in art to bring the total to nine semester courses; two semester courses in ancient, European, or American history, or one semester each of history and music.

The point scale for retention of the major applies to courses taken in the department. A departmental examination is to be passed in the senior year.

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*Chairman, Professor Howard*

Professor Howard; Associate Professors D. Koonce and Westervelt.

*Requirements for the major in classics*

Three years of Latin above 122 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 122 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.

The point scale for retention of the major applies to all courses in the department.

ENGLISH

Acting Chairman, Professor Sutherland

Professors Strider, Alice Comparetti, Benbow, Cary, and Sutherland; Associate Professors MacKay, Suss, Witham, Curran, and Brancaccio; Assistant Professors H. Koonce, Mizner, Norford, Sweney, Russ, E. Kenney, Meek, Bassett, Stratman, and Bierhaus; Messrs. Hunt, Arnold, Shoen.

Requirements for the major in literature in English

Two semester courses from each of the following groups: (1) 251, 253, 255; (2) 257, 259, 271, 273; (for the class of 1972, 211, 212 or 214 may be substituted for the corresponding two semesters of the above courses); 317; 493, 494; and three other courses in English numbered 300 or above, excluding 391, 393, 396, 411. English 111-114, 115, 116, 118, 131, 152, 211, 212, 214, 231, 233 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. These courses are not computed in establishing the major average.

Requirements for the honors program in English

Students may apply for admission during the first semester of their junior year. Students in the honors program substitute English 394 (honors seminar) for one of the regular major offerings. In addition, in the second semester of the senior year they must submit an honors essay and pass an honors examination which will be based on a supplemental reading program and which will include the Graduate Record Examination in literature. Honors will be awarded to those students who achieve honors in essay and examination and who achieve a 3.1 average in major courses at the end of the senior year.

1Part-time.
Attention is called to the interdepartmental majors in classics-English and American studies.

MODERN FOREIGN LANGUAGES

*Acting Chairman, Professor Holland*
Professors Kellenberger, Bundy, and Holland; Associate Professors G. Smith, P. Bither, Biron, Schmidt, Kempers, Cauz, and Kueter; Assistant Professors F. Pérez, C. Ferguson, P. Doel, L. Ferguson, Filosof, Kerkham, and S. Cassol; Mrs. Mursin, Mr. Doan, Mrs. Cassol, Mrs. Kueter.

*Placement 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 arrangement for placement during Freshman Week.

*Note:* In addition to the following major programs, the department also offers instruction in the Italian, Japanese and Portuguese languages, and in Italian and Japanese literatures in translation. Work can be done in some of the less commonly taught languages through the college's participation in the Princeton University Cooperative Undergraduate Program for Critical Languages.

*Requirements for the major in French*
French 125, 126, and 24 semester hours numbered 200 or above, with the exception of 211 and 411. Beginning with the class of 1972, majors may elect the sequence French 221, 222; 321, 322; 421, 422 for completion of the major.

*Requirements for the major in German*
German 125, 126 and 18 additional semester hours in advanced German courses.

*Requirements for the major in Russian*
Twenty-four semester hours beyond Russian 114. Freshmen who take Russian 111, 112 and plan to major in the language are urged to take the equivalent of Russian 113, 114 during the summer so that they can take Russian 225, 226 in their sophomore year. The following supporting courses are strongly recommended: History 341, 342.

1Director, Junior Year Program in Caen.
Requirements for the major in Spanish

Twenty-four semester hours in Spanish courses numbered above 114.

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.

Chairman, PROFESSOR E. COMPARETTI
Professors E. Comparetti and Re; Assistant Professors Heinrich and Yusti; Mrs. Reuman.

Requirements for the major in Music

Music 121, 122, 141, 142, 211, 222, 325, 326; any two semesters from 215, 312, 321, 322; French 113, 114, German 113, 114, or Italian 121, 122 (students planning graduate work in musicology should elect all three). Some skill at the keyboard is required of all majors.

The point scale for retention of the major applies to all music courses.

Division of Social Sciences

Chairman, PROFESSOR WEISSBERG

INTERDEPARTMENTAL MAJORS

Opportunity is offered for concentration in six interdepartmental majors: American studies, East Asian studies, administrative science-mathematics, economics-mathematics, philosophy-mathematics, and psychology-mathematics.

Requirements for the major in American studies
(Adviser: Mr. Bassett)

(1) A total of fourteen courses with an American orientation, at least three of which must be in American history and three in American literature. (2) Of these fourteen courses, election of at least five courses in an area of concentration (American history or American literature). This area of concentration must include courses on the 200, 300, and 400 levels and must demonstrate adequate chronological breadth. No 100-level (freshman) course may be used to satisfy major course requirements.

1Part-time.
(3) Election of a senior seminar in the area of concentration and a second seminar or special topics course on the 400 (senior) level with an American emphasis. (4) Election of at least six other American-oriented courses from a designated list in art, economics, government, philosophy, psychology, religion, and sociology. (5) An oral comprehensive examination in the senior year with examiners from the disciplines of American history, American literature, and a third academic specialty.

The point scale for retention of the major applies to all courses used to satisfy major requirements.

Requirements for the major in East Asian studies
(Adviser: Mr. Critchfield)
Two years of an East Asian language and twenty-one credit hours of course work in East Asian studies, selected with the approval of the program chairman. A comprehensive examination is to be passed in the senior year.

The point scale for retention of the major applies to all courses that count toward the major.

Requirements for the major in administrative science-mathematics
(Advisers: Mr. Zukowski and Mrs. Zukowski)
In administrative science: 221, 222; 321, 322; 353; 413, 414; and Economics 241, 242.
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 211d, 231d, and Sociology 221, 222 are recommended but not required.

Requirements for the major in economics-mathematics
(Advisers: Mr. Dunlevy and Mrs. Zukowski)
In economics: 241, 242; 331; 336; 394; 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
(Advisers: Mr. Clark and Mrs. Zukowski)
In philosophy: 212 and either 123 or 211; 331, 332; 357 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
(Advisers: Mr. Gillespie and Mrs. Zukowski)

In Psychology: 211d; 132 or 231d; 381, 382; 392; three additional credit hours at the 300 or 400 level.

In Mathematics: 241, 242 or 381, 382; at least 12 additional credit hours, of which six must be at the 300 or 400 level.

The point scale for retention of each mathematics combination major applies to all courses that count toward the major.

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.

Chairman, PROFESSOR W. ZUKOWSKI
Professors Williams¹ and W. Zukowski; Assistant Professor Knight and Mr. Landsman.

Requirements for the major in administrative science
Administrative Science 221, 222, 321, 322, 413, 414; two semesters of mathematics; Economics 241, 242; Psychology 211d, 231d 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 331, 336; 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 331, 336, where these courses are used to satisfy major requirements.

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.

Acting Chairman, ASSOCIATE PROFESSOR HOGENDORN
Professor Pullen; Associate Professor Hogendorn; Assistant Professors Cox, Dunlevy, Gemery, and Mannur.

Requirements for the major in economics
Economics 241, 242, and eight additional semester courses in economics, including Economics 331 in the junior year and 411. Also required is a satisfactory percentile rating in the Under-

graduate Program Field Test in Economics, given in the spring of the senior year. Administrative Science 221, 222, or 321, 322 may be substituted for two of the eight 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 331, 336, 341, 342, 394, and 411. In addition, they should have college mathematics through calculus, and a working knowledge of elementary statistics. If a student intends to be a candidate for the Ph.D. degree, he should also acquire a reading knowledge of French and/or German.

The point scale for continuation in the major applies only to courses in economics, except that Administrative Science 221, 222 or 321, 322 will be counted if substituted for courses in advanced economics in fulfilling the major requirement.

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

Office of Education, ASSOCIATE PROFESSOR JACOBSON

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, and modern foreign languages¹. Because requirements vary from state to state, however, each student must assume responsibility for obtaining the pertinent information which he needs². 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, 214; junior year: Education 311, 312; Philosophy 333; Psychology 314; senior year: Education 441,

¹For those students who wish to meet elementary-school-teacher 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 after graduation.

²Most 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. (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).
Courses numbered 411 and 411L 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, Miller Library.

HISTORY AND GOVERNMENT

Co-chairmen, Professors Gillum and Weissberg
Professors Maurinac, Gillum, Raymond, and Weissberg; Associate Professors Berschneider, Bridgman, and Foner; Assistant Professors Elison1, Pan, Ziony, Menge, and Kany1; Mr. Critchfield2, Mrs. Maurinac1, Mr. Milenky1, and Mr. Farr1.

The department offers majors both in government and in history. Attention is also called to interdepartmental majors in American studies and East Asian studies.

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.

Requirements for the major in history

Ten semester courses in history and two semester courses in government. 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.

The point scale for retention of the major applies to all courses in history and government.

1Part-time.
4Part-time lecturer.
PHILOSOPHY AND RELIGION

Chairman, PROFESSOR CLARK
Professors Clark, Reuman, and Todrank; Visiting Professor Naravane; Associate Professor Y. Hudson; Assistant Professors Peters and Thorwaldsen; Mr. Longstaff and Mr. McGowan.

Requirements for major in philosophy
Philosophy 211, 212, 331, 332, 353, and twelve additional hours in Philosophy, only six of which may be in 100-level courses.

Requirements for major in philosophy and religion
Religion 223, 224, 311, 312, 316.
Philosophy 211, 212, 331, 332, 372, 373.

The point scale for retention of each of the above majors applies to all courses that count toward the major.

Attention is called to interdepartmental majors in philosophy-mathematics and classics-philosophy (see list of requirements under Division of Humanities).

PSYCHOLOGY

Chairman, PROFESSOR GILLESPIE
Professors Johnson and Gillespie; Associate Professor Perez; Assistant Professors Zohner, DeSisto, and Lester; and Dr. DeHart, Lecturer.

Requirements for the major in psychology
Students majoring in psychology will offer the following courses or their equivalent: two semesters of college biology; Mathematics 241, 242; Psychology 211d; 132 or 231d; 381, 382; 392; and nine additional hours in psychology approved by the department.

The point scale for continuation in the major applies to all courses offered toward the major, as prescribed above.

Requirements for the honors program in psychology
In the spring of their junior year, psychology majors may be invited to apply for admission to the honors program. Students in this program will meet the regular course requirements for the major, and, in the second semester of the senior year, submit an honors essay (for which they may be enrolled in Psychology 491, 492) and pass an honors examination based on a supplemental reading program and incorporating a nationally standardized advanced test in psychology. Honors will be awarded to those who attain honors on essay and examination and who achieve a 3.1 average in major courses by the end of the senior year.

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

**SOCIODY**

*Chairman, Associate Professor Geib*

Professor Birge; Associate Professors Geib and Rosenthal; Assistant Professor Doel; Mr. Marks.

*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.

The point scale for retention of the major applies to all courses in sociology.

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**Division of Natural Sciences**

*Chairman, Professor Bancroft*

**INTERDEPARTMENTAL MAJORS**

Interdepartmental majors are offered in environmental studies, geology-biology, geology-chemistry, and physics-mathematics.

*Requirements for the major in environmental studies*

(Adviser: Mr. Gilbert)

This multi-disciplinary major is intended to provide students with (1) an understanding of the complex inter-relationships within ecosystems, (2) an appreciation for the contributions made by different disciplines to a study of the environment, (3) an awareness of the roles of individuals and institutions that impinge upon the environment, and (4) a working experience with some aspect of the local or regional environment.

*In biology:* 352 plus two semester courses selected from 117, 118, 135, 136.

*In chemistry:* two semester courses selected from 111, 112, 121, 122, 141, 142.

*In geology:* 161, 162; 491, 492; either 112 or 292.

*In mathematics:* 241 or 981.

An additional ten credit hours, as approved, from the Division of Natural Sciences.

Nine credit hours, as approved, from the Division of Social Sciences.
At least one January Program in environmental studies.

The point scale for retention of the major applies to all courses offered toward the major.

Requirements for the major in geology-biology
(Advisers: Mr. Pestana and Mr. Scott)
In geology: One of the year-sequences 121, 122; 141, 142; or 161, 162; plus 212 and 281; plus two additional semester courses as approved.
In biology: Six semester-courses including 111, 114 and 271, as approved. Chemistry 141e, 142 and Mathematics 121d are required also.

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

Requirements for the major in geology-chemistry
(Advisers: Mr. Allen and Mr. Machemer)
In geology: beginning in the sophomore year 281, 282; 241, 242; 321, 322.
In chemistry: 141e, 142; 331, 332; 341, 342. Physics 141, 142 and mathematics 121d, 122d.

Students should consult one of the major advisers regarding the selection 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
(Advisers: Mr. Bancroft and Mr. Combellack)
In physics: 141, 142, plus four additional semester courses as approved.
In mathematics: 113d, 121d, 122d, 212d, 311, and one additional semester course as approved.

Note: All physics courses have prerequisites or corequisites in mathematics. If advanced placement or credit is given in either department, additional courses must be selected from that department to a total of 18 credit hours or more.

The point scale for retention of the major applies to all courses 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 Introduction to Computer Science. Orientation programs in the use of the terminals and the machine language Basic are also given for any students who are interested.
Starting in the first semester of 1971-72, every student who elects an elementary mathematics course will receive instruction in the use of the terminals. For students electing sequential courses, the instruction will be gradated accordingly. As more students and faculty are introduced to computer techniques, it is assumed that the facilities will be increasingly used in other courses.

**BIOLOGY**

*Chairman, Professor Scott*

Professors Scott and Terry; Associate Professor Easton; Assistant Professors Fowles and W. Gilbert; and Mrs. M. Gilbert.

*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 seminar in the senior year. 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 141, 142, and organic chemistry. For most of these, at least one further course in mathematics should be elected, with the advice of the major department. It should be noted that requirements for the Ph.D. degree in areas of biological science include a reading knowledge of two modern foreign languages.

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.

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 majors in geology-biology and environmental studies.

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**CHEMISTRY**

*Chairman, Professor Reid*

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

The department offers major programs for the liberal arts stu-

dent who intends to make a career in research, or for the student who has other professional objectives, such as agriculture, business, industry, or medicine. The major, accredited by the American Chemical Society, provides training more sharply focused toward further work in university graduate schools; a student graduating in this program receives official certification from the society. The other, the basic major, is less specialized and affords more opportunity for study outside the department. Both involve the same core curriculum, but the A.C.S. major requires either German or Russian (through intermediate level), and a minimum of three other specified semester courses in chemistry.

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

Requirements for the A.C.S. accredited major in chemistry
Required courses (subject to minor change by permission of the chairman of the chemistry department):
Freshman year: Chemistry 141e, 142; Mathematics 121d, 122d; German 111, 112; or Russian 111, 112.
Sophomore year: Chemistry 241e, 242; Physics 141, 142; German 113, 114; or Russian 113, 114.
Junior year: Chemistry 331, 332; Chemistry 341, 342.
Senior year: Chemistry 412, 431. Two other semester courses may be taken as electives.
An additional language and a second course in physics are recommended.

A sound program in the basic major meets most of the objectives of the A.C.S. 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, 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.

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.

Attention is called to the interdepartmental geology-chemistry major.

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**GEOLOGY**

*Chairman, Professor Koons*

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

*Requirements for the major in geology*

Geology 121, 122 or 141, 142, or 161, 162; 212; 241, 242; 281, 282; 321, 322; 351 or 352; one year of college mathematics; and Chemistry 141, 142. A written 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; 192; 212; 281, 282; 221, 222; 261; Chemistry 141. A comprehensive examination is to be passed in the senior year.

The point scale for retention of the major applies to all courses taken in the department.

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, geology-chemistry, and environmental studies.

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**MATHEMATICS**

*Chairman, Associate Professor L. Zukowski*

Professor Combellack; Associate Professor L. Zukowski; Assistant Professors Fuglister, Hayslett, Junghans, 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.

The point scale for retention of the major applies to all courses taken in the department.

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.

PHYSICS AND ASTRONOMY

Chairman, PROFESSOR BANCROFT
Professor Bancroft; Associate Professor Dudley1; Assistant Professors Metz and Taffe.

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

It is advisable to take Physics 141, 142 in the freshman year, although schedules can be arranged, in consultation with the department, if students choose to begin a physics major in the sophomore year. A major in physics requires completion of mathematics courses through Mathematics 314, Chemistry 141, 142, and nine courses in physics, including Physics 141, 142, 372, 421, 422.

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 physics, chemistry, and mathematics.

It is recommended that the physics major fulfill his college language requirement in either German or Russian. Students contemplating graduate work should acquire a reading knowledge of both or of one of these, plus French.

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

Division of Aerospace Studies

Chairman, Assistant Professor Harris¹
Associate Professor Harris; Captain Hilinski and Captain Korejwo.

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 the first semester of their sophomore year.

¹Designated Professor of Aerospace Studies.

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Division of Physical Education and Athletics

Chairman, Associate Professor Winkin
Associate Professors Winkin and Mrs. M. Bither; Assistant Professors Gunn¹, McGee, Covell, Scholz, and Nelson; Mr. Green, Mrs. Hodson, Mr. Hodges, Mr. Schulten, Miss Mandeville, Mr. Whitmore, and Mrs. Hodges².

The physical education program for men includes required classes, intramural sports, intercollegiate athletics (varsity and junior varsity) and informal recreational activities.

Physical Education 1, 2 — instruction and supervised competition in life-time sports activities in a program of physical fitness and exposure to aquatic experiences is required of all freshmen. Physical Education 3, 4 provides a similar program. However, the Department of Physical Education and Athletics is granted permission to waive up to one year of the requirement for physical education credit and this may be fulfilled by meeting minimal proficiency requirements in the areas of instruction for Physical Education 1 and 2.

A semester's work failed in the first two years must be fulfilled to receive graduation credit. Selection of physical education sections must be made at the time of the regular academic course elections. Prescribed clothing, required for physical education activity classes, may be secured at the college bookstore. Lockers and towels are provided. Participation on varsity or junior varsity teams may be substituted for physical education section assignments, within the season or seasons, during the freshman and sophomore years.

The Intramural Athletic Council, composed of a representative from each participating unit, promotes athletics for men; every student is free to engage in the activities of his choice. Competition is organized in touch football, basketball, hockey, volleyball, skiing, track, squash, handball, swimming, softball and tennis. As new interests develop the program will be increased.

The indoor Harold Alfond Arena provides artificial ice for skating. The college operates a ski area with a 1200-foot T-Bar lift and a 32-meter jump convenient to the campus.

Two years of physical education is required. A faculty-student physical education committee has set up the objectives of the program, which include emphasis on life-time sports, dance, fitness, posture, and swimming skills. Twenty-eight activities are offered within the program with ski lessons, figure skating, and squash as highlights during the winter season. An extremely active modern Dance Club provides opportunity for those students interested in this field, and a Red Cross Water Safety Instructor's Course is given annually. Intermediate and advanced levels are offered in many sports.

Sophomores who have fulfilled all the objectives of the program may apply for a waiver of the second-year requirement.
Intercollegiate competition in ten sports is part of the department's program. Usually six matches, within the state of Maine, are scheduled in each activity (one exception is ski meets in New Hampshire and Vermont).

Juniors and seniors may participate in physical education activities when space permits.

All participation is subject to the approval of the college physician.

Seasonal offerings from which election may be made include:

- **Fall**: archery, field hockey, golf, tennis, riding, swimming, judo, and modern dance;
- **Winter**: badminton, balance beam, movement, vaulting, free exercise, basketball, folk dance and modern dance, fencing, swimming, volleyball, skating, skiing, judo, riding, squash, and body mechanics;
- **Spring**: archery, golf, lacrosse, tennis, swimming, riding, and modern dance.

**INTERCOLLEGIATE ATHLETICS FOR MEN**

Athletic teams, varsity and junior varsity, include baseball, basketball, football, hockey, track, cross country, golf, lacrosse, tennis, skiing, soccer, squash and swimming. All coaches are members of the faculty in the department of physical education and athletics. Colby is a member of the National Collegiate Athletic Association, the Eastern Colleges Athletic Conference, the New England Small College Athletic Conference, and the Maine Intercollegiate Athletic Association.

The rules that govern intercollegiate sports are those adopted by the athletic conferences in which Colby holds membership.

No undergraduate previously enrolled in another college or university and in attendance at Colby College for less than one full college year is eligible to represent Colby on varsity athletic teams.

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**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 *Institute for Maine Industry* and the *Sloan*
Institute on Hospital and Health Administration. Each summer, in excess of 2,500 individuals from throughout the nation 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. Musicians come to the campus for the Church Music Institute and the Summer School of Music, while doctors enroll in the Lancaster Courses in Ophthalmology, General Surgery, and Seminar in Nuclear Medicine.

Since 1955, the division has sponsored the Colby Telecourse to assist teachers in Maine, New Hampshire, Vermont, and Canada to earn certificate credits.

The division is also responsible for the Evening Courses at Colby College, offered to individuals in and near Waterville during spring semester, and the January Program of Independent Study.

Information may be obtained by writing to Paul D. Walker, Jr., director.
Courses of Study

KEY TO SYMBOLS AND METHODS

OF COURSE DESIGNATION

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 1971-72.

* An asterisk indicates that the course will probably not be offered in 1972-73.

† A dagger indicates that the course will probably be offered in 1972-73.

A schedule of hours and rooms for courses listed in this catalog 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

221E, 222
PRINCIPLES OF ACCOUNTING
MRS. KNIGHT

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. Three credit hours.

321, 322
FINANCE
MR. ZUKOWSKI

An analytically structured approach to decision-making in the financial area. Money and capital markets are considered.

Prerequisites: Administrative Science 221, 222 and Economics 241, 242 or special permission. Three credit hours.

341, 342
ADVANCED ACCOUNTING
MR. ZUKOWSKI
AND MRS. KNIGHT

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.

Prerequisite: Administrative Science 221, 222. Three credit hours.

343, 344
MARKETING
MR. LANDSMAN

An analytical approach to the marketing function and applications of behavioral science in dealing with problems of product, communication, channel, and price strategies.

Prerequisite: Administrative Science 221, 222 or Economics 241, 242. Three credit hours.

353
MANAGERIAL ECONOMICS
MR. ZUKOWSKI

The decision-making process examined in an economic context.

Prerequisites: Administrative Science 221, 222 and Economics 241, 242 or special permission. Three credit hours.

354
LAW
MR. LANDSMAN

A study of those processes of law which underlie personal and institutional relationships. Three credit hours.

411
THE CONSUMER IN SOCIETY
MRS. KNIGHT

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. Three credit hours.
412
INVESTMENTS
MR. WILLIAMS

The principles of investment, with special attention to investment analysis, the investment process, and criteria for investment decisions.

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

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.

Prerequisites: Sociology 221, 222 or permission of instructor. Three credit hours.

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

414
SPECIAL TOPICS
MR. ZUKOWSKI

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

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

Aerospace Studies

133d
WORLD MILITARY SYSTEMS
MR. HARRIS

A study and analysis of the purpose 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 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. Three credit hours.

313d
DEVELOPMENT OF AEROSPACE POWER
MR. HARRIS

A course dealing with the growth and development of airpower in the United States, airpower today, space operations, and probable future development in manned aircraft and space operations. Conducted primarily in seminar. Three credit hours.
Aerospace Studies

An introduction to the theoretical aspects of leadership including a study of military management functions, principles, and techniques.

Prerequisite: Aerospace Studies 313d and permission of the instructor. Three credit hours.

Ancient History

IN THE DEPARTMENT OF CLASSICS

Greek History

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. Three credit hours.

Roman History

Topics in Roman History. Open to freshmen with permission of the instructor. Three credit hours.

Problems in Greek History

Athens in the fifth century.

Prerequisite: Permission of the instructor. Three credit hours.

Problems in Greek History

Greece in the fourth century.

Prerequisite: Permission of the instructor. Three credit hours.

Art

First semester: an analytical approach to the visual arts and the historical development of European art through the Middle Ages. Second semester: the history of art from the Renaissance to the present. Four credit hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>141, 142</td>
<td>Introduction to Drawing</td>
<td>Exploration of graphic media while learning basic representational and expressive means. Much emphasis is placed on out-of-class drawing. <em>Three credit hours.</em></td>
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<tr>
<td>211d</td>
<td>Introduction to Painting Problems</td>
<td>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. <em>Three credit hours.</em></td>
<td></td>
</tr>
<tr>
<td>221, 222</td>
<td>Principles of Design</td>
<td>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. <em>Three credit hours.</em></td>
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</tr>
<tr>
<td>252</td>
<td>Architecture</td>
<td>Architectural styles with emphasis on modern developments. Course work includes problems in architectural design and the making of models of historical buildings. <em>Three credit hours.</em></td>
<td></td>
</tr>
<tr>
<td>261, 262</td>
<td>Beginning Sculpture</td>
<td>The emphasis is on basic three-dimensional design and the exploration of various sculptural techniques, both additive and subtractive. <em>Three credit hours.</em></td>
<td></td>
</tr>
<tr>
<td>271</td>
<td>American Art</td>
<td>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>
<td></td>
</tr>
<tr>
<td>311</td>
<td>The Art of Ancient Greece and Rome</td>
<td>Architecture, sculpture, and painting from the Archaic period into Roman times. <em>Prerequisites: Art 121 or permission of the instructor. Three credit hours.</em></td>
<td></td>
</tr>
<tr>
<td>†[312]</td>
<td>Art of the Renaissance in Italy</td>
<td>The art of the fifteenth and sixteenth centuries in Italy, with emphasis on the major painters and sculptors. <em>Prerequisite: Art 121, 122 or permission of the instructor. Three credit hours.</em></td>
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<tr>
<td>Course Number</td>
<td>Course Title</td>
<td>Instructor</td>
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</tbody>
</table>
| *313          | Art of the Renaissance in Northern Europe        | Mr. Carpenter| The art of France, Germany and the Lowlands in the fifteenth and sixteenth centuries with emphasis on the major painters from Van Eyck to Brueghel. Special attention is given to the graphic arts (woodcuts and engravings) in Germany. Formerly listed as Art 311.  
*Prerequisite:* Art 121, 122 or permission of the instructor.  
*Three credit hours.* | |         |
| *314          | Baroque Art                                      | Mr. Miller   | The art of the seventeenth and eighteenth centuries, with emphasis on the major painters.  
*Prerequisite:* Art 121, 122 or permission of the instructor.  
*Three credit hours.* | |         |
| 318           | European Art Since 1800                         | Mr. Carpenter| Emphasis on French painting of the nineteenth and twentieth centuries.  
*Prerequisite:* Art 121, 122 or permission of the instructor.  
*Three credit hours.* | |         |
| 331d          | Advanced Painting                               | Mr. Meader   | An opportunity for further study in painting, using either oils or acrylics.  
*Prerequisite:* Art 221 and permission of the instructor, or Art 211d.  
*Three credit hours.* | |         |
| 335, 336      | Studio Work: Sculpture                          | Miss Matthews| Work in several sculptural media with emphasis on expressive means.  
*Prerequisite:* Art 261, 262, and permission of the instructor.  
*Three credit hours.* | |         |
| *[353]*       | The Graphic Arts                                 |              | History and criticism of drawing and print-making with emphasis on European art since the Renaissance.  
*Prerequisite:* Art 121, 122 or permission of the instructor.  
*Three credit hours.* | |         |
| 371d          | Advanced Painting                               | Mr. Meader   | A tutorial painting situation. Open to students who have shown capability in Art 331.  
*Three credit hours.* | |         |
391, [392]  
**Art of Ancient India**  
Mr. Naravane  

Special reference to Hindu and Buddhist architecture and sculpture.  

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

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. *Three credit hours.*

491, 492  
**Special Problems**  
Staff  

Individual study of special problems in the practice, history or theory of the visual arts.  

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

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**Astronomy**  

IN THE DEPARTMENT OF PHYSICS AND ASTRONOMY

132  
**Descriptive Astronomy**  

An introduction to the world beyond our solar system. Beginning with a study of the substance and structure of the universe, modern cosmological theories will be examined. Considerable discussion will be devoted to current topics in astronomical research (such as stellar evolution, galactic structure, quasars). *Three credit hours.*

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**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

These courses are primarily designed for students majoring in the
social sciences or humanities. Each 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. 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. Three
credit hours.

118
ECOLOGY AND POPULATION
BIOLOGY
MR. GILBERT

Consideration will be given to population dynamics, symbiosis,
systematics, and animal behavior. The human “Population
Bomb” and its ecological consequences will be discussed. Three
credit hours.

131
HUMAN EVOLUTION
MR. EASTON

A consideration of the evolutionary origin of Man, through study
of selected original papers and short publications. The course
includes attention to the basic theory of evolution and the
forces which are effective in the process.
Prerequisite: Permission of the instructor; enrollment limited.
Three credit hours.

132
HUMAN EMBRYOLOGY AND
REPRODUCTION
MR. EASTON

A study of 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.
Prerequisite: Permission of the instructor; enrollment limited.
Three credit hours.
<table>
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<tbody>
<tr>
<td>135</td>
<td><strong>Plant Biology</strong></td>
<td>An introduction to the principles of biology as illustrated by plants, with emphasis on structure, activities, and reproduction of green plants. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>136</td>
<td><strong>Understanding Evolution</strong></td>
<td>A study of the scope, significance, and mechanisms of evolution. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>271</td>
<td><strong>Introduction to Ecology; Introduction to Plants</strong></td>
<td>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.  <em>Prerequisite: Biology 111 or equivalent. Four credit hours.</em></td>
</tr>
<tr>
<td>272</td>
<td><strong>Cell Biology</strong></td>
<td>Cellular and associated molecular biology. Laboratory will involve microscopic study of cells and investigation of pertinent physico-chemical phenomena.  <em>Prerequisite: Biology 271 or equivalent, and Chemistry 141, 142 (may be taken concurrently). Four credit hours.</em></td>
</tr>
<tr>
<td>311</td>
<td><strong>Field and Systematic Botany</strong></td>
<td>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. <em>Four credit hours.</em></td>
</tr>
<tr>
<td>313</td>
<td><strong>Invertebrate Zoology</strong></td>
<td>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. <em>Four credit hours.</em></td>
</tr>
<tr>
<td>314</td>
<td><strong>Plant Metabolism, Growth and Behavior</strong></td>
<td>The essential mechanisms of plant growth and development; photosynthesis, trans-location and enzymology will be studied. <em>Four credit hours.</em></td>
</tr>
<tr>
<td>315</td>
<td><strong>Physiology</strong></td>
<td>An introduction to the physiological processes, including enzyme action, respiration, permeability, muscular contraction, nervous and hormonal coordination. <em>Four credit hours.</em></td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>317</td>
<td>Histology and Histological Technique</td>
<td>Normal cells and tissues of vertebrates, and their arrangement into organs in the body, with practice in basic techniques of preparing tissues for microscopic observation. Four credit hours.</td>
</tr>
<tr>
<td>318</td>
<td>Microbiology</td>
<td>The biology of yeast, molds, and bacteria. The aims of the course are (1) to develop general knowledge in this area and (2) to give technical training to those who will become laboratory technicians or research workers. Four credit hours.</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>
</tr>
<tr>
<td>331</td>
<td>Embryology</td>
<td>Animal development with emphasis on experimental analysis. Four credit hours.</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>
</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. Mathematics 241, 242 is recommended but not required. Two credit hours.</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>
</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>
</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. Scott

Mendelian principles and their physical basis; linkage, mutation, and the nature of the gene. The genetic mechanisms in evolution are a primary concern of the course. Formerly listed as Biology 312. Three credit hours.

374
Genetics
Mr. Scott

Lecture and text material the same as Biology 372, but with the addition of laboratory sessions. Four credit hours.

401, 402
Biology Seminar
Staff

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

112
Topics in Chemistry
Mr. Smith

The course is designed as a one-semester science course without laboratory credit for nonscience 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.
121C, 122
**General Chemistry**
*Mr. Machemer*

Selected fundamental principles in inorganic chemistry; stoichiometry; ionic equilibria; atomic and molecular structure. (Satisfies science distribution requirement, but not laboratory science.)

*Three credit hours.*

141C, 142
**General Chemistry and Elementary Analysis**
*Mr. Machemer*

Lecture and text material the same as 121C, 122, but with laboratory sessions added. First semester covers 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.*

221C, 222
**Organic Chemistry**
*Mr. Reid*

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

*Prerequisite: Chemistry 142. Three credit hours.*

241C, 242
**Organic Chemistry**
*Mr. Reid*

Lecture and text material the same as 221C, 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.*

331
**Quantitative Analysis**
*Mr. Ray*

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.*

332
**Instrumental Analytical Chemistry**
*Mr. Machemer*

Theoretical and practical instruction in special instrumental methods. Laboratory work involves potentiometric determinations, atomic, ultra-violet, infra-red, and nuclear magnetic resonance studies, polarography, gas chromatography, and radio chemistry. Two hours of lecture, one hour of discussion, and five hours of laboratory per week.

*Prerequisite: Chemistry 331, 342; Mathematics 122d. (Chemistry 342 may be taken concurrently). Four credit hours.*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>341, 342</td>
<td>Physical Chemistry</td>
<td>Mr. Ray</td>
<td>The laws governing the physical and chemical behavior of substances, emphasizing the theories and methods of physical chemistry and the application of physical chemical principles to the solution of problems. Three hours of lecture, one hour of discussion, and five hours of laboratory per week.</td>
<td>Chemistry 331; Mathematics 122d (may be taken concurrently with Chemistry 341); Physics 142.</td>
<td>5</td>
</tr>
<tr>
<td>411</td>
<td>Inorganic Chemistry</td>
<td>Mr. Smith</td>
<td>Current models and concepts of inorganic chemistry with emphasis on both reaction and structural aspects, including nuclear chemistry, acid-base theory, chemical bonding, periodic properties, and coordination compounds. Three hours of lecture per week.</td>
<td>Chemistry 342.</td>
<td>3</td>
</tr>
<tr>
<td>431</td>
<td>Qualitative Organic Analysis</td>
<td>Mr. Reid</td>
<td>The systematic identification of organic compounds. Two hours of lecture, six hours of laboratory per week.</td>
<td>Chemistry 332, 342.</td>
<td>4</td>
</tr>
<tr>
<td>432</td>
<td>Advanced Organic Chemistry</td>
<td>Mr. Reid</td>
<td>Advanced topics, varied to suit the needs of the students: alicyclics, heterocyclics, natural products, reaction mechanisms, molecular rearrangements. Two hours of lecture per week.</td>
<td>Chemistry 242.</td>
<td>2</td>
</tr>
<tr>
<td>434</td>
<td>Advanced Physical Chemistry</td>
<td>Mr. Smith</td>
<td>Important topics in molecular structure and behavior are discussed from a rigorous point of view. The material can be varied to suit the needs of the student in areas of elementary quantum mechanics, symmetry and group theory, molecular spectroscopy, and statistical mechanics. Three hours of lecture per week.</td>
<td>Chemistry 342.</td>
<td>3</td>
</tr>
<tr>
<td>467, 468</td>
<td>Biochemistry</td>
<td>Mr. Maier</td>
<td>Chemical components of living matter and of the major processes of cellular metabolism, including the fundamental chemical characteristics of biological compounds and enzymatic reactions. Three hours of lecture, one hour of discussion, and three hours of laboratory per week. Biology 111 and 114 are recommended as preparation.</td>
<td>Chemistry 242.</td>
<td>4</td>
</tr>
</tbody>
</table>
Classes (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.

232 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.

†234 EARLY GREEK POETRY

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

[321, 322] FORMS OF THE NOVEL

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.*

<table>
<thead>
<tr>
<th>[338]</th>
<th>Literary Movements</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Studies in the anti-hero from Childe Harold to his leather-jacketed descendents of the 1950's. <em>Three credit hours.</em></td>
</tr>
</tbody>
</table>

**Computer Science**

**IN THE DIVISION OF NATURAL SCIENCES**

<table>
<thead>
<tr>
<th>112d</th>
<th>Introduction to the Computer</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Seminar on present and potential uses of computers in a technological society: their applicability to education, libraries, natural and social sciences, business, and humanities. Practical experience in computer use through doing simple, illustrative problems. <em>Two credit hours.</em></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>[212]</th>
<th>Basic Logical Designs of Digital Computers</th>
</tr>
</thead>
</table>
|        | Principally concerned with introductory system software and "hardware" design of the computer processor. Discussions concern the small word system, second generation byte-oriented systems and the large third generation systems.  
*Prerequisite:* Computer Science 112 or permission of the instructor. *Three credit hours.* |

**East Asian Studies**

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

<table>
<thead>
<tr>
<th>491, 492</th>
<th>Special Topics</th>
</tr>
</thead>
</table>
|          | 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 chairman. *Three credit hours.* |
## Economics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>241e, 242</td>
<td>Principles of Economics</td>
<td>Principles of economics and their applications to modern economic life. Open to a limited number of freshmen with permission of department. <em>Three credit hours.</em></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>*331</td>
<td>Intermediate Economic Theory</td>
<td>Theoretical concepts involved in the determination of price and output in a market economy. Analysis of both commodity and factor markets will be undertaken.</td>
<td>*Prerequisite: Economics 241, 242. <em>Three credit hours.</em></td>
<td>3</td>
</tr>
<tr>
<td>333</td>
<td>Economic Development</td>
<td>The nature, characteristics, and problems of the underdeveloped countries with special reference to India. A critical study of Indian development strategy and techniques as an exercise in planned program of development of an underdeveloped country.</td>
<td>*Prerequisite: Economics 241, 242. <em>Three credit hours.</em></td>
<td>3</td>
</tr>
<tr>
<td>336</td>
<td>Modern Theory of Income Determination</td>
<td>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.</td>
<td>*Prerequisite: Economics 241, 242. <em>Three credit hours.</em></td>
<td>3</td>
</tr>
<tr>
<td>*341, 342</td>
<td>Money and Banking</td>
<td>The role of money, credit and banking in the American economy, and the applicability of monetary policy to the problems of economic stability.</td>
<td>*Prerequisite: Economics 241, 242. <em>Three credit hours.</em></td>
<td>3</td>
</tr>
</tbody>
</table>
The American labor movement, emphasizing the development of unionism, union collective bargaining policies and practices, labor legislation, and the economic aspects of some major problems of labor.

Prerequisite: Economics 241, 242. Three credit hours.

The framework of economic analysis applied to European historical patterns and trends. Study of aspects of industrialization, capital accumulation, technology change, trade and migration, and effects of entrepreneurial and government decisions.

Prerequisite: Economics 241, 242. Three credit hours.

The framework of economic analysis applied to American historical patterns and trends. Study of aspects of industrialization, capital accumulation, technology change, trade and migration, and effects of entrepreneurial and government decisions.

Prerequisite: Economics 241, 242. Three credit hours.

International trade theory, the balance of payments, commercial policy, problems of international disequilibrium and adjustment, the International Monetary Fund, and the World Bank.

Prerequisite: Economics 241, 242. Three credit hours.

The basic types of economic systems, with special attention to the problems of economic planning and economic development. Emphasis is on Western Europe, Japan, the Soviet Union, and China.

Prerequisite: Economics 241, 242. Three credit hours.

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: Mathematics 241 or Mathematics 381. Three credit hours.

An examination and appraisal of the contributions of the major economists from Adam Smith to John M. Keynes to the development of economic thought. Extensive use of source material.
**Colby College: Courses of Study | Economics, Education**

**491, 492 Special Topics in Economics**

Independent study devoted to a topic chosen by the student with the approval of the department.

Open only to senior majors in economics. May be elected for either semester, or for the full year. *Three credit hours.*

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**Education**

**213 Sociology of Education**

Mr. Jacobson

Open to prospective teachers, this course explores the role of human relations in education. One hour daily to be served as an assistant teacher in a local elementary school. Required for certification.

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

**214 History and Government of Education**

Mr. Jacobson

Open to prospective teachers, this course focuses on the history and government of American education. One hour daily to be served as an assistant teacher in a local elementary school. Required for certification.

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

**311, 312 Field Experience and Seminar in Education**

Mr. Jacobson

Treats topics concerning curriculum, materials, and methodology. One hour daily to be served as an associate teacher in a local junior high school. Required for certification.

*Prerequisite:* Permission of the instructor. *One credit hour.*

**313 Philosophy of Education**

Mr. Hudson

Listed as Philosophy 333 (*q.v.*). Required for certification. *Three credit hours.*

**314 Developmental Psychology**

Mr. Zohner

Listed as Psychology 314 (*q.v.*). Required for certification. *Three credit hours.*

**441, 442 Internship**

Mr. Jacobson

Open to prospective secondary-school teachers. A study of the teaching-learning process. Required field experience: one hour daily in the local high schools as a teaching aide, and full-time...
teaching internship during January. Required for certification.  
*Prerequisite:* Permission of the instructor. *Three credit hours.*

491, 492  
**Special Topics**  
**Staff**  
Dealing with advanced topics and areas of interest in research and development, this course offers a seminar, tutorial, or independent study program, based on individual needs.  
*Prerequisite:* Education 441, 442 and permission of the instructor. *Three credit hours.*

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**English**

[111, 112]  
**113, 114**  
**English Fundamentals**  
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.  
*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. Sweney 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**  
A course for those who desire further practice in the fundamentals of composition.  
*Prerequisite:* English 115 or exemption. *Three credit hours.*

**118**  
**Creative Writing**  
**Instructor**  
Introduction to the writing of poetry, with emphasis upon student manuscripts.  
*Prerequisite:* English 115, or exemption. *Three credit hours.*

**131d**  
**General Speech**  
**Mr. Witham**  
Fundamental principles of the composition and oral delivery of speeches. *Two credit hours.*

**152d**  
**Introduction to Literature**  
**Mr. Mackay and Staff**  
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.

[211] INTRODUCTION TO LITERATURE IN ENGLISH

Literature in the English language (medieval through Renaissance) through a study of selected English authors.

Prerequisite: English 152. Three credit hours.

[212] INTRODUCTION TO LITERATURE IN ENGLISH

Literature in the English language (eighteenth through twentieth centuries) through a study of selected English authors.

Prerequisite: English 152. Three credit hours.

231 ADVANCED EXPOSITORY PROSE

Weekly assignments in some of the popular forms of prose: the personal essay, the formal essay, the popular article, and the critical review.

Prerequisite: Permission of instructor, enrollment limited. Three credit hours.

233 ARGUMENTATION AND DEBATE

Principles of argumentation with application in extended persuasive speeches and formal debate.

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

[236] INTRODUCTION TO COMMUNICATION THEORY

Theories of interpersonal and mass communication, including verbal and non-verbal communication, communication models, and mass communication in a technological era. Specific areas of concern are psychology of speech and language, kinesics, general semantics, and the media. Open to freshmen with permission of the instructor. Three credit hours.

251d INTRODUCTION TO OLD AND MIDDLE ENGLISH LITERATURE

Readings will consist of Beowulf and other old English elegiac and heroic poetry, old and middle English religious and secular lyrics, and The Canterbury Tales.

Prerequisite: English 152 or 211. Three credit hours.

253d INTRODUCTION TO THE ENGLISH RENAISSANCE

An exploration of the nature of the English Renaissance through a study of its prose and poetry. Consideration will be given to the major literary traditions and to selected works of Marlowe, More, Shakespeare, Sidney, Spenser, Surrey, Wyatt.

Prerequisite: English 152 or 211. Three credit hours.
<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>255d</td>
<td>Introduction to the Poetry of the Seventeenth Century</td>
<td>An examination of the major poetic and intellectual traditions in the seventeenth century as represented by Donne, Jonson, Herbert, Marvell, Dryden, and selected minor poets.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>257d</td>
<td>Introduction to Eighteenth Century Literature</td>
<td>A study of selected work by Pope, Swift, Johnson, Blake, and other major writers of the 18th century.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>259d</td>
<td>Introduction to Romanticism</td>
<td>A survey of the major Romantic poets, with ancillary reading in the essay, novel, and minor poetry of the period.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>271d</td>
<td>Introduction to American Literature</td>
<td>A survey of major American authors — primarily from the 19th century — with particular consideration given to the development of an American tradition in poetry and fiction.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>273</td>
<td>Introduction to Victorian Literature</td>
<td>An introduction to the period and its literature through a study of Victorian comic traditions. Emphasis will be placed on the novel, periodical literature, drama, and nonsense.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>311d2</td>
<td>Studies in Medieval Literature</td>
<td>Chaucer's development of his continental sources with special attention to <em>Troilus</em>, <em>The Knight's Tale</em>, <em>The Parliament</em>, and <em>The House of Fame</em>.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>[312]</td>
<td>Studies in the Renaissance</td>
<td>The poetry of Edmund Spenser. Attention will be focused upon <em>The Faerie Queene</em> and the problem of Renaissance epic.</td>
<td>English 152 or 211</td>
<td>Three</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
<td>Prerequisite</td>
<td>Credits</td>
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<tr>
<td>315d2</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 or 211. Three credit hours</td>
<td>3</td>
</tr>
<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.</td>
<td>English 152 or 211. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>318</td>
<td>Studies in Shakespeare</td>
<td>Intensive reading of the histories and tragedies or of the comedies with special attention to Shakespeare’s development as a dramatist and to his relation with his contemporaries.</td>
<td>English 317. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>319</td>
<td>Milton</td>
<td>Milton’s poetry and prose.</td>
<td>English 152 or 211. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>331</td>
<td>Studies in the Eighteenth Century</td>
<td>A study of the development of the novel as a major art form. Readings in Defoe, Richardson, Fielding, Smollett, Sterne, and others.</td>
<td>English 152 or 211. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>332</td>
<td>Studies in Romanticism</td>
<td>Romanticism viewed as the ancestor of Existentialism. Readings in the novel and the drama of England, France, Russia, and Germany.</td>
<td>English 152 or 211. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>333</td>
<td>Studies in Victorian Literature: Art, Artist, and Audience</td>
<td>This study of verbal and visual arts in the nineteenth century will attempt to define Victorian expectations and practices in viewing and creating “art.” Emphasis in the verbal arts will be on poetry; Victorian writings on the visual arts will also be read.</td>
<td>English 152 or 211. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>335</td>
<td>Early American Authors</td>
<td>Selected prose and poetry from the Puritan period, the Age of Reason, and the pre-romantic movement in American literature.</td>
<td>English 152 or 211. Three credit hours</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Instructor</td>
<td>Description</td>
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</tbody>
</table>
| 336    | AMERICAN REALISM AND NATURALISM | MR. BRANACCIO | The development of fictional techniques in America during the late nineteenth and early twentieth century. Readings will be drawn from the following authors: Twain, James, Crane, Howells, Norris, Garland, and Dreiser.  
**Prerequisite:** English 152 or 211. Three credit hours. |
| 337d   | INTRODUCTION TO AMERICAN STUDIES: ENGLISH | MR. BASSETT AND MR. BRANACCIO | 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 or 211. Three credit hours. |
| 351    | EDWARDIAN LITERATURE | MR. KENNEY | A study of 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 or 211. Three credit hours. |
| 352    | CONTEMPORARY AMERICAN FICTION | MR. BASSETT | 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 or 211. Three credit hours. |
| †[353] | TWENTIETH CENTURY POETRY: THE MODERN TRADITION | | Lectures on the beginnings of modern poetry, the Imagist movement, and the poetry of the Thirties and Forties. Special attention will be given to the major poetic works of Yeats, Eliot, Pound, Frost, and Thomas.  
**Prerequisite:** English 152 or 211. Three credit hours. |
| 354    | CONTEMPORARY BRITISH FICTION | MR. KENNEY | 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 or 211. Three credit hours. |
| *355   | TWENTIETH CENTURY POETRY: MID-CENTURY | MR. HUNT | Lectures on contemporary directions of poetry. Special attention will be given to the Black Mountain poets, the San Francisco Renaissance, the Movement in Britain. Some individual poets to be read are Robert Lowell, Theodore Roethke, William Carlos |
Williams (later work), Philip Larkin, and Sylvia Plath.

*Prerequisite:* English 152 or 211. *Three credit hours.*

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<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>357, 358</td>
<td><strong>Modern Drama</strong></td>
<td>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. Qualified students may be admitted to the second semester without the first.</td>
<td>English 152 or 211.</td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td><em>Mr. Suss</em></td>
<td></td>
<td></td>
<td>credit hours</td>
</tr>
<tr>
<td>371</td>
<td><strong>Studies in Criticism</strong></td>
<td>An intensive study of the poetics of Aristotle and of the <em>Ars Poetica</em> of Horace with the study of their importance in the medieval and renaissance literary tradition.</td>
<td>English 152 or 211.</td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td><em>Mr. Stratman</em></td>
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<td>credit hours</td>
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<tr>
<td>373</td>
<td><strong>History of the Language</strong></td>
<td>A study of 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.</td>
<td>English 152 or 211.</td>
<td>Three</td>
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<tr>
<td></td>
<td><em>Mr. Russ</em></td>
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<td>credit hours</td>
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<tr>
<td>391</td>
<td><strong>Advanced Fiction Workshop</strong></td>
<td>Practice in the writing of short stories with major emphasis upon student manuscripts.</td>
<td>English 118 or permission of the instructor.</td>
<td>Three</td>
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<td><em>Instructor</em></td>
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<td>credit hours</td>
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<tr>
<td>393</td>
<td><strong>Advanced Poetry Workshop</strong></td>
<td>Practice in the writing of poetry with major emphasis upon student manuscripts.</td>
<td>English 118 or permission of the instructor.</td>
<td>Three</td>
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<td><em>Instructor</em></td>
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<td>credit hours</td>
</tr>
<tr>
<td>394</td>
<td><strong>Honors Seminar</strong></td>
<td>Topics, which change each year, normally investigate a genre and cut across literary periods.</td>
<td>Open only to members of Honors Program.</td>
<td>Three</td>
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<td><em>Staff</em></td>
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<td>credit hours</td>
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<tr>
<td>396d</td>
<td><strong>Oral Interpretation</strong></td>
<td>Principles of selection, analysis, and preparation of poetry, prose, and drama for oral presentation before an audience.</td>
<td>English 152 or 211.</td>
<td>Three</td>
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<tr>
<td></td>
<td><em>Mr. Witham</em></td>
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<td>credit hours</td>
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</table>
411
THE TEACHING OF ENGLISH
MR. HUNT

Reading and discussion of current issues and methods in the teaching of English and participation in the Center for Coordinated Studies.

Prerequisite: Concurrent enrollment in Education 441 or permission of the instructor. Three credit hours.

423, 424
MAJOR AMERICAN ROMANTICS
MR. CARY

The golden age of romanticism in American literature. First semester: representative works of Poe, Emerson, Thoreau; second semester: Whitman, Melville, Hawthorne.

Prerequisite: English 152 or 211. 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.

111, 112
ELEME NTARY FRENCH
STAFF

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. Class meets daily Monday through Friday. Four credit hours.

113, 114
INTERMEDIATE FRENCH
STAFF

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.

Prerequisite: French 112 or two years of high-school French and appropriate score on the placement test. Three credit hours.
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<tr>
<th>Course Numbers</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
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</table>
| 123, 124       | Advanced French staff                                            | Advanced work in all aspects of French: grammar, oral and written composition, analytical reading. Focus is on language, but materials deal largely with French civilization. May be taken concurrently with French 125, 126.  
Prerequisite: French 114 or three years of high-school French and appropriate score on the placement test. Three credit hours. |                                                                             |
| 125, 126       | Introduction to French Literature staff                         | Introduction to French literature through the reading of selected masterpieces illustrative of the major genres. Intensive reading and analyse de texte. French 127, 128 is highly recommended as a one-hour supplementary course which offers additional training in writing.  
Prerequisite: 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. Three credit hours. |                                                                             |
| 127, 128       | Writing Workshop in French staff                                 | Practice in writing, free composition, grammar review.  
Prerequisite: Student must be registered concurrently in French 125, 126. One credit hour.                                                                                     |                                                                             |
| 211d           | French Composition MR. FLIPOU                                      | Extensive practice in oral and written composition; some translation from English to French. Attention to some finer points of grammar and elements of style.  
Prerequisite: French 126 or permission of the instructor. Three credit hours.                                                                                     |                                                                             |
| 221, 222       | Major French Authors staff                                       | A study of thematically grouped works of major French authors and critical and background materials. Two lectures and one discussion period per week.  
Prerequisite: French 126 or the equivalent. Open only to sophomore majors in French. Four credit hours.                                                                      |                                                                             |
<p>| 241, 242       | Contemporary French Literature MR. SMITH                        | Introduction to literature of the twentieth century, with representative works in prose, poetry, and theatre.                                                                                        | Prerequisite: French 126. Three credit hours.                                                                   |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>321, 322</td>
<td>Independent Study staff 321, 322</td>
<td>Students work independently on a tutorial basis in one or more areas of French literature and civilization. Prerequisite: French 222. Open only to junior French majors. Four credit hours.</td>
</tr>
<tr>
<td>[343, 344]</td>
<td>French Literature of the Eighteenth Century 343, 344</td>
<td>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.</td>
</tr>
<tr>
<td>†[361, 362]</td>
<td>† Studies in the French Novel 361, 362</td>
<td>A consideration of some of the major French novelists, grouped usually by theme, period, or genre. Prerequisite: French 126 or equivalent. Three credit hours.</td>
</tr>
<tr>
<td>363, 364</td>
<td>Studies in French Poetry 363, 364</td>
<td>A consideration of some of the major French poets grouped usually by theme, period, or movement. Prerequisite: French 126 or equivalent. Three credit hours.</td>
</tr>
<tr>
<td>365, 366</td>
<td>Studies in French Theatre 365, 366</td>
<td>A consideration of some of France’s major dramatists, grouped usually by theme, period, or genre. Prerequisite: French 126 or equivalent. Three credit hours.</td>
</tr>
<tr>
<td>411</td>
<td>Teaching of Modern Foreign Languages 411</td>
<td>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 Certificate. Conducted in English. Prerequisite: French 222 or 242. Three credit hours.</td>
</tr>
<tr>
<td>411-L</td>
<td>Language Teaching staff 411-L</td>
<td>Directed practice in conduct of introductory language courses. Open to a limited number of students enrolled in French 411. Two credit hours.</td>
</tr>
<tr>
<td>†[412]</td>
<td>Advanced Composition and Stylistics 412</td>
<td>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.</td>
</tr>
</tbody>
</table>
### 421, 422
**History of French Literature**

*Mr. Bundy*

Senior majors review the history of France and its literature using the individual projects of the junior year as a point of departure.

**Prerequisite:** French 322. Open only to senior majors in French. *Four credit hours.*

### 491, 492
**Topics in French 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 French Literature**

*Staff*

Topics which change each semester may cover an author, a genre, or a literary movement.

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

### Geology

#### 112
**Oceanography I**

*Mr. Pestana*

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.*

#### 114
**Oceanography II**

*Mr. Pestana*

Course 111, supplemented by laboratory experience and by field trips to nearby oceanographic institutes and to the seashore. Enrollment limited to twenty-five students. Fulfills laboratory science requirement. *Four credit hours.*

#### 121e, 122
**Introduction to Geological Science (I)**

*Mr. Koons*

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.*

#### 141e, 142
**Introduction to Geological Science (II)**

*Mr. Allen*

Lecture and text material the same as Geology 121e, 122, but with the addition of laboratory and field sessions. Enrollment limited to one laboratory section of 25-30 students; recommended for those planning to major in geology. *Four credit hours.*

1. Of the year sequences 121e, 122, 141e, 142, 161e, 162, not more than one sequence may be offered for course credit.
### 161e, 162
**Problems in Geology**

*Staff*

A study of 8-10 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 geologic mechanisms and processes, and not for students planning to major in geology. Enrollment limited to 20-25 students per section. *Three credit hours.*

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### 212
**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.*

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### †[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.*

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### †[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.*

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### 261, [262]
**Invertebrate Paleontology**

*Mr. Pestana*

Morphology of invertebrates and general principles including nomenclature, taxonomy, paleoecology, evolution, correlation, and techniques of identification.

*Prerequisites:* For 261: Geology 122, or 142, or 162, or one year of biology; for 262: Geology 261 or Biology 313. *Four credit hours.*

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### *271*  
**Glacial Geology**

*Mr. Koons*

The origin and development of glaciers, with special attention to the Pleistocene of New England. An extended field mapping problem will be assigned.

*Prerequisite:* Geology 122, or 142, or 162. *Three credit hours.*

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*Of the year sequences 121e, 122, 141e, 142, 161e, 162, not more than one sequence may be offered for course credit.*
281, 282
Mineralogy
Mr. Allen

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.

Prerequisite: Chemistry 141 (may be taken concurrently) or permission of the instructor. Four credit hours.

*292
Meteorology
Mr. Koons

Physical properties of the atmosphere; the origin and classification of weather types; air mass analysis and principles of prediction. Does not satisfy the science requirement. Three credit hours.

[314]
Petroleum Geology

The origin, occurrence, and production of petroleum, natural gas, and related compounds. Attention is given to methods of discovery and correlation of petrolierous rocks.

Prerequisite: Geology 212. Four credit hours.

321, 322
Igneous and Metamorphic Petrology
Mr. Allen

Hand-specimen and thin-section examination of igneous and metamorphic rocks to determine structure, composition, and origin.

Prerequisite: Geology 282. Four credit hours.

352
Stratigraphy
Mr. Coleman

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.

Prerequisite: Geology 212 and Geology 261 or Biology 313. Four credit hours.

491, 492
Special Problems in Geology
Staff

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

Prerequisite: Permission of the instructor. Variable one to three credit hours.
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 taped materials in the language laboratory is a regular part of the class work. Class meets daily Monday through Friday. 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.

125, 126
INTRODUCTION TO
GERMAN LITERATURE
MR. BITHER

Introduction to German literature through the reading of selected masterpieces. In-depth study of selected works with collateral readings.

Prerequisite: German 114 or three years of high-school German and appropriate placement. Three credit hours.

127, 128
WORKSHOP IN GERMAN
MR. KUETER

Concentrated practice in oral and written German.

Prerequisite: German 114. Two credit hours.

[211]
READING IN LITERATURE,
SCIENCE, CURRENT EVENTS

This course is designed to provide students with the opportunity to maintain and firmly establish their language skills. Conducted in English.

Prerequisite: German 114 or appropriate placement. One credit hour.

333
NINETEENTH CENTURY
THEATRE
MR. BITHER

Representative works of the major dramatists of the nineteenth century.

Prerequisite: German 126 or 216. Three credit hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>335</td>
<td>Romanticism</td>
<td>Representative works of Holderlin, Novalis, Tieck, August Wilhelm Schlegel, Friedrich Schlegel, Eichendorff and E. Th. A. Hoffmann.</td>
<td>German 126 or 216. Three credit hours.</td>
</tr>
<tr>
<td>336</td>
<td>The Novelle</td>
<td>Extensive readings in the novelle of the nineteenth century.</td>
<td>German 126 or 216. Three credit hours.</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 126 or 216. Three credit hours.</td>
</tr>
<tr>
<td>343</td>
<td>German Literature of the Eighteenth Century</td>
<td>The literature of the classical period: Klopstock, Wieland, Herder, Lessing, Goethe, and Schiller. Emphasis on a detailed study of the masterpieces of Goethe and Schiller.</td>
<td>German 126 or 216. Three credit hours.</td>
</tr>
<tr>
<td>347, 348</td>
<td>Contemporary German Literature</td>
<td>Leading literary trends from naturalism to the new realism, with emphasis on the contribution of expressionism. Reading and interpretation of representative works of Thomas Mann, Hesse, H. v. Hofmannsthal, Werfel, Kafka, E. Junger, and others. An attempt is made to trace the effect of the past two wars on German literature.</td>
<td>German 126 or 216. Three credit hours.</td>
</tr>
<tr>
<td>351</td>
<td>Medieval Literature</td>
<td>Literature of medieval Germany from primitive old Germanic works through the classical period of Middle High German literature, using New High German translations with some sampling of texts in the original.</td>
<td>Two semester courses beyond German 126 or 216. Three credit hours.</td>
</tr>
<tr>
<td>352</td>
<td>Humanism, Reformation and Baroque</td>
<td>Selected readings from major authors of each period, with special emphasis on their influence on German thought and literature.</td>
<td>German 351. Three credit hours.</td>
</tr>
</tbody>
</table>
411
TEACHING OF MODERN
FOREIGN LANGUAGES
MR. BUNDY

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 Certificate. Conducted in English.

Prerequisite: German 126, 215, or 216. 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.

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
SEMINARY IN GERMAN
LITERATURE
MR. SCHMIDT

Topics may vary from year to year, and may cover an author, a genre, or a literary movement. In 1971-72, the topic for 494 is Goethe's Faust.

Prerequisite: Permission of the instructor. Three credit hours.

Government

IN THE DEPARTMENT OF HISTORY AND GOVERNMENT

131, 132
AN INTRODUCTION TO
A STUDY OF THE
POLITICAL ORDER
STAFF

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
APPROACHES TO THE POLITICAL
ORDER — EAST AND WEST
INSTRUCTOR

A comparative study of approaches to the political order exemplified in the writings of thinkers from East and West. Their interpretations and theorizations of the origin of the state, the purpose of government, the ideal state, desirable scope of political authority, the role of the individual, and other significant problems will be examined. Three credit hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Course Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>156</td>
<td>Political Modernization in Asia</td>
<td></td>
<td>A study of the major factors contributing to political change, the problems encountered in the process of modernization, and the prospects of establishing viable democratic political systems in Asian countries. General theories of political modernization will be analyzed and tested in case studies. <em>Three credit hours.</em></td>
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<tr>
<td>235</td>
<td>European Politics</td>
<td></td>
<td>Britain, France, and West Germany viewed in terms of their contemporary political structures and in terms of the problems they face. <em>Three credit hours.</em></td>
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<tr>
<td>237</td>
<td>Evolution of Political Institutions in East Asia</td>
<td></td>
<td>An examination of the development of political institutions in pre-modern China and Japan, exploring the effects of social and economic patterns upon the structure of governmental institutions and vice versa. <em>Three credit hours.</em></td>
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<tr>
<td>257</td>
<td>The American Presidency</td>
<td></td>
<td>A study of the powers and limitations of the federal executive in modern American politics. <em>Three credit hours.</em></td>
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<tr>
<td>258</td>
<td>The Legislative Process</td>
<td></td>
<td>A comparison of the law-making process in legislative bodies with emphasis on the United States Congress. This course will include the electoral process, legislative politics, and congressional relationships with interest groups as well as with other governmental bodies. <em>Three credit hours.</em></td>
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<tr>
<td>314d1</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. <em>Three credit hours.</em></td>
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</tr>
<tr>
<td>321, 322</td>
<td>Political Theory</td>
<td></td>
<td>Analysis of 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. <em>Three credit hours.</em></td>
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<tr>
<td>388</td>
<td>Totalitarian Government and Politics</td>
<td>Mr. Mavrinac</td>
<td>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. <em>Three credit hours.</em></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>335</td>
<td>International Relations</td>
<td>Principles of international politics, stressing such topics as the balance of power, collective security, diplomacy and nationalism. Three credit hours.</td>
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<td></td>
<td>MR. WEISS BERG</td>
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<tr>
<td>†336</td>
<td>International Organization</td>
<td>The structure, politics and current operation of international organizations within the nation-state system, with particular emphasis on the United Nations. Three credit hours.</td>
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<tr>
<td>†338</td>
<td>International Law</td>
<td>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.</td>
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<td>371</td>
<td>East Asian Political Thought</td>
<td>Analysis of works by the leading political thinkers of China and Japan. Modern writings will be read in translation for class discussion. Three credit hours.</td>
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<td>INSTRUCTOR</td>
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<td>†377</td>
<td>Special Problems in Local Government</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>
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<tr>
<td>378</td>
<td>Political Institutions of Modern China</td>
<td>A study of the political structure in mainland China in the twentieth century, with special emphasis on the theory and practice, the role of political parties, distribution of authority, and the dynamics of the decision-making process. Prerequisite: At least one government or history course related to China, or permission of the instructor. Three credit hours.</td>
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<td></td>
<td>INSTRUCTOR</td>
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<tr>
<td>391</td>
<td>Public Administration</td>
<td>An examination of the political setting of public administration. The legislative, budgetary, and administrative processes will be examined from the points of view of the actors in the political system: the President and executive officials, bureau chiefs, congressmen, lobbyists, communications media, and political party leaders. Emphasis will be upon programs concerned with social change in America. Three credit hours.</td>
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<td>INSTRUCTOR</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
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<tr>
<td>392</td>
<td>State and Local Government</td>
<td>Mr. Farr</td>
<td>An examination of 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. <em>Three credit hours.</em></td>
<td></td>
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<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. <em>Three credit hours.</em></td>
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<tr>
<td>414</td>
<td>Seminar in Comparative Politics</td>
<td></td>
<td>Selected problems in political analysis dealing with phenomena of our times. Some past topics have been “Conditions and Modes of Revolution” and “Black Self-expression in the United States and Africa.” <em>Three credit hours.</em></td>
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<tr>
<td>416</td>
<td>Seminar in East Asian Thought and Institutions</td>
<td></td>
<td>Discussions, research, and reports on selected problems of Chinese and Japanese political thought and governmental structure. <em>Prerequisite:</em> At least one government or history course related to China or Japan, or permission of the instructor. <em>Three credit hours.</em></td>
<td></td>
</tr>
<tr>
<td>435d2</td>
<td>Seminar in American National Government and</td>
<td></td>
<td>The American national government as organization and process and of the elements of national political life. <em>Prerequisite:</em> Permission of the instructor. <em>Three credit hours.</em></td>
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<td></td>
<td>Politics</td>
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<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. <em>Prerequisite:</em> Government 335, or equivalent; or permission of the instructor. <em>Three credit hours.</em></td>
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</tr>
<tr>
<td>[458]</td>
<td>Seminar on the United Nations</td>
<td></td>
<td>This seminar will be conducted in the form of the United Nations Security Council as presently constituted. Case studies on issues involving maintenance and restoration of international</td>
<td></td>
</tr>
</tbody>
</table>
peace and security will be placed on the agenda. Each participant will assume the role of a U. N. representative in order to resolve the dispute.

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

491, 492  
**TOPICS IN GOVERNMENT**  
**STAFF**

A study of government through special topics.  
*Prerequisite:* Government major and special permission of the department chairman. *Three credit hours.*

495  
**ORDER AND AUTHORITY**  
**INSTRUCTOR**

A seminar designed not only for majors in Government but for those in philosophy and other disciplines dealing with the problems and the thought of social structure and process. The seminar will explore the thinking of selected theorists, including Edmund Burke. *Three credit hours.*

[498]  
**SEMINAR IN CONTEMPORARY**  
**POLITICAL PROBLEMS**

A seminar in some contemporary problems in political thought and practice.  
*Prerequisite:* Permission of the instructor. *Three credit hours.*

---

**Greek**

IN THE DEPARTMENT OF CLASSICS

111, 112  
**ELEMENTARY GREEK**  
**MRS. KOONCE AND MR. WESTERVELT**

Readings in Homer's *Iliad.* *Four credit hours.*

131  
**INTRODUCTION TO GREEK LITERATURE I**  
**MR. WESTERVELT**

Further readings in Homer. *Three credit hours.*

132  
**INTRODUCTION TO GREEK LITERATURE II**  
**MR. HOWARD**

Plato: *Apology, Crito,* selections from the *Phaedo.* *Three credit hours.*
*351
Greek Literature
Mr. Howard
Thucydides. Three credit hours.

*352
Greek Literature
Mrs. Koonce
Sophocles. Three credit hours.

†353
Greek Literature
Demosthenes. Three credit hours.

†354
Greek Literature
Euripides. Three credit hours.

355
Greek Literature
Herodotus. Three credit hours.

356
Greek Literature
Plato. Three credit hours.

413
Seminar
Aeschylus. Three credit hours.

414
Seminar
Aristophanes. Three credit hours.

491, 492
Greek Literature
Independent Reading
Reading in a field of the student's interest, with essays and conferences. Variable, one to three credit hours by prior arrangement.

History

In the Department of History and Government

131, 132
Introduction to History
Staff
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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>133, 134</td>
<td><strong>Introduction to the History of East Asia</strong></td>
<td>Mr. Critchfield</td>
<td>First semester: “Feudal” Japan. A survey of the history of Japan during the pre-eminence of warriors and their governments located at Kamakura, Muromachi, and Edo, from the mid-twelfth century to the mid-nineteenth century. Emphasis will be placed upon institutional developments. Second semester: “Modern” Japan: Japan’s Meiji Restoration, her internal organization, and her external expansion between 1860 and 1960. Emphasis will be placed upon the development of views of, and policy for, Japan’s role as a nation. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>221, 222</td>
<td><strong>History of East Asian Civilization</strong></td>
<td>Mr. Critchfield</td>
<td>The interaction of cultures in East Asia. First semester: the traditional civilization in China and Japan, with some attention to peripheral areas. Second semester: chiefly Chinese and Japanese reactions to Western stimuli in the nineteenth and twentieth centuries, and the resulting problems of modernization. Three credit hours.</td>
<td></td>
</tr>
<tr>
<td>223, 224</td>
<td><strong>Survey of United States History</strong></td>
<td>Mr. Kany and Mr. Bridgman</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>231</td>
<td><strong>Medieval Civilization 476-1300</strong></td>
<td>Mr. Berschneider</td>
<td>Western Europe from the decline of Roman unity to the Renaissance, with emphasis on Catholic, Byzantine and Moslem influences, as a study in which characteristic western institutions took shape in a general social advance. Three credit hours.</td>
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</tr>
<tr>
<td>232</td>
<td><strong>Renaissance and Reformation 1300-1648</strong></td>
<td>Mr. Berschneider</td>
<td>An intellectual and cultural history of the period of transition from the medieval to the modern world. Three credit hours.</td>
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</tr>
<tr>
<td>237</td>
<td><strong>The Emergence of Modern Britain, 1688-1867</strong></td>
<td>Mr. Gillum</td>
<td>England and her colonies during the American, French and Industrial Revolutions. Three credit hours.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
<td>Prerequisite</td>
<td>Credits</td>
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<tr>
<td>238</td>
<td>Britain Since 1867</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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<td>3</td>
</tr>
<tr>
<td>297</td>
<td>Afro-American History I</td>
<td>The history of the Black American and race relations from the African background to the beginning of the Civil War. Formerly listed as History 397. Permission of the instructor. Three credit hours.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>298</td>
<td>Afro-American History II</td>
<td>The history of the Black American and race relations from the Civil War to the end of World War I, stressing emancipation, reconstruction, the New South, the Du Bois-Washington conflict, the rise of the NAACP, the great migration of World War I, and the Red Summer of 1919. Formerly listed as History 398. Permission of the instructor. Three credit hours.</td>
<td></td>
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</tr>
<tr>
<td>311</td>
<td>Tutorial in History</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. Permission of the instructor. One to three credits by prior arrangement.</td>
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<td>1-3</td>
</tr>
<tr>
<td>323, 324</td>
<td>Diplomatic History, Nineteenth and Twentieth Centuries</td>
<td>The modern state system and diplomatic relations existing among the major powers. The first semester examines the development of power politics and European hegemony in what is known as the old diplomacy. The second semester emphasizes the new diplomacy, the waning of European hegemony, and the growth of regional and world organizations. Permission of the instructor. A one-year course, or equivalent, in history or government, or permission of the instructor. Three credit hours.</td>
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<tr>
<td>331</td>
<td>The British Empire and Commonwealth</td>
<td>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. Permission of the instructor. A one-year course, or equivalent, in history, or permission of the instructor. Three credit hours.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>334</td>
<td>Medieval England: The Origins of the Common Law</td>
<td>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.</td>
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<td>Course</td>
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<tr>
<td>337</td>
<td><strong>Tudor-Stuart England</strong>&lt;br&gt;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. <em>Three credit hours.</em></td>
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<tr>
<td>341, 342</td>
<td><strong>History of Russia and the U.S.S.R.</strong>&lt;br&gt;The expansion of the Russian state and the political and social development of the Russian people under the Tsarist and Soviet regimes.&lt;br&gt;<em>Prerequisite:</em> One year-course, or equivalent, in history or government, or permission of the instructor. <em>Three credit hours.</em></td>
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<tr>
<td>351</td>
<td><strong>Intellectual and Cultural History of Modern Europe</strong>&lt;br&gt;Principal trends and leaders of new thought (Darwin, Marx, Freud <em>et al.</em>) with emphasis on late-nineteenth and twentieth-century intellectual developments. <em>Three credit hours.</em></td>
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<tr>
<td>353</td>
<td><strong>Modern France</strong>&lt;br&gt;Traditional French society and the various reactions to economic and social threats from 1848 to the present. Formerly listed as History 357.&lt;br&gt;<em>Prerequisite:</em> One year course, or equivalent, in history, or permission of the instructor. <em>Three credit hours.</em></td>
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<tr>
<td>354</td>
<td><strong>The French Revolution and Napoleon</strong>&lt;br&gt;European history from 1789 to 1815, with emphasis on political and social developments in France. Formerly listed as History 372.&lt;br&gt;<em>Prerequisite:</em> One-year course, or equivalent, in history or government, or permission of the instructor. <em>Three credit hours.</em></td>
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<tr>
<td>356</td>
<td><strong>Modern Germany</strong>&lt;br&gt;The governmental and economic development and the international influence of Germany from 1848 to the present time. Formerly listed as History 375.&lt;br&gt;<em>Prerequisite:</em> One-year course, or equivalent, in history or government, or permission of the instructor. <em>Three credit hours.</em></td>
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<tr>
<td>359</td>
<td><strong>Modern Japanese History</strong>&lt;br&gt;The history of Japan from ca. 1800 to the present day, concentrating on a treatment of Japan’s modernization and the political, social and ideological problems connected with the process of modernization. <em>Three credit hours.</em></td>
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<td>Course</td>
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</tbody>
</table>
| 363, 364 | History of Japanese Culture  
Mr. Critchfield  
An examination of ethical, practical, political, and aesthetic aspects of the experience of the Japanese people, with the aim of conveying an appreciation, if not an understanding, of the contemporary Japanese through an acquaintance with the vast, fluid body of influences which work to make the Japanese distinct from their neighbors. First semester: from the pre-historical Jōmon period through the civil wars of the fifteenth century. Second semester: from the aftermath of the Onin War through Japan's emergence from defeat in World War II. *Three credit hours.* |
| 373 | The Industrial State:  
1883-1929  
Mr. Bridgman  
Emphasis on social and cultural relationships. An examination of such primary institutions as unionism, corporate power, immigration and related nativism, and the dynamics of urbanism. Changing historical forms through the half-century from the Pendleton Civil Service Act to the onset of the Great Depression. *Three credit hours.* |
| 374 | Contemporary America:  
1929 to Present  
Mr. Bridgman  
The United States from the onset of the Great Depression to the present. Emphasis is on political history. *Three credit hours.* |
| 376 | The Era of the American Revolution,  
1793-1800  
Mr. Kany  
Interpretations of the coming of the Revolution, the Declaration of Independence, the War, the Articles of Confederation, the Constitution, and the Federalist years. Foundations of American institutions and traditions are viewed. Formerly listed as History 396. *Three credit hours.* |
| 377 | Historical Introduction to American Studies: The United States, 1828-1860  
Mr. Foner  
Jacksonianism, the rise of the Whig Party, the plantation system, the institution of slavery, abolitionism, women's rights, urbanism, Manifest Destiny, and the decade of the 1850's. Social and intellectual developments will be examined together with political |
Political, economic, and social developments, including such subjects as disunion and reunion, the Gilded Age, the intellectual and social responses to industrialization and urbanization, and the turbulent 1880's.

*Prerequisite:* A one-year course in history, or equivalent, or permission of the instructor. *Three credit hours.*

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**391**
**The American Civil War**
**Mr. Raymond**

An examination of the origins and the military and political history of the Civil War from about 1850 to 1865. *Three credit hours.*

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**[393]**
**The South in United States History, 1828-1890**

The South and its peculiar institutions. An effort is made to illustrate how the area accomplished an incomplete transition from agrarianism to industrialism. *Three credit hours.*

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**395**
**The Early National Republic, 1789-1837**
**Mr. Bridgman**

The United States during its first long half-century as an independent nation. *Three credit hours.*

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**[399]**
**Afro-American History III**

The History of the Black American and race relations from 1920 to the present, stressing the Harlem Renaissance, the Garvey Movement, and the post-World War II protest, civil rights, and nationalist movements. The course will close with an investigation of current ideologies and activities in the Black community.

*Prerequisite:* History 297, 298 (or 397, 398), or permission of the instructor. *Three credit hours.*

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**[414]**
**Seminar in Japanese History**

Special topics in Japanese history.

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

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### History

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>416</td>
<td>Special topics in American History</td>
<td>Permission of the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>418</td>
<td>Methods of historical research and critical study of sources and documents in a special topic of European history.</td>
<td>Permission of the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>432</td>
<td>Group discussion and individual reports based on research on selected topics in Afro-American History.</td>
<td>Permission of the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>433</td>
<td>Reading and research on various topics in English history, with special attention devoted to political history in the nineteenth or twentieth centuries.</td>
<td>Permission of the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>491, 492</td>
<td>A study of history through special topics.</td>
<td>History major and permission of the department chairman.</td>
<td>3</td>
</tr>
</tbody>
</table>

### Italian

**In the Department of Modern Foreign Languages**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>121, 122</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. Class meets daily Monday through Friday.</td>
<td>Completion of 114 (or equivalent) in another language or permission of the instructor.</td>
<td>4</td>
</tr>
<tr>
<td>211ds</td>
<td>Study of The Divine Comedy and of The New Life in English translation. No knowledge of Italian is required.</td>
<td>Completion of a semester course in literature at the college level.</td>
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Japanese

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111, 112</td>
<td>Elementary Japanese</td>
<td></td>
<td>Introduction to the modern language, with practice in reading, conversation, and elementary composition. Use of taped materials in the language laboratory is a regular part of the class work. Class meets daily Monday through Friday. Four credit hours.</td>
</tr>
<tr>
<td>113, 114</td>
<td>Intermediate Japanese</td>
<td></td>
<td>Continued practice in the oral-aural skills; emphasis on reading and writing modern prose. This and the review of grammar are supplemented by language laboratory and language tables. Class meets daily Monday through Friday. Prerequisite: Japanese 112 or equivalent. Four credit hours.</td>
</tr>
<tr>
<td>131</td>
<td>Introduction to Japanese Culture</td>
<td></td>
<td>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 Center for Coordinated Studies or permission of instructor. Three credit hours.</td>
</tr>
<tr>
<td>151, 152</td>
<td>Introduction to East Asian Literature</td>
<td></td>
<td>An introduction to East Asian culture through the critical reading of selected literary works in English translation. Three credit hours.</td>
</tr>
<tr>
<td>231, 232</td>
<td>Japanese Literature in Translation</td>
<td></td>
<td>Representative works of Japanese literature. First semester: from the primitive period to the end of the sixteenth century; second semester: from 1600 to the present. Three credit hours.</td>
</tr>
<tr>
<td>241, 242</td>
<td>Advanced Japanese</td>
<td></td>
<td>Third year level of language work with concentration on readings from newspapers, magazines, and modern prose. Prerequisite: Japanese 114. Three credit hours.</td>
</tr>
<tr>
<td>491, 492</td>
<td>Topics in East Asian Literature</td>
<td>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. Three credit hours.</td>
</tr>
</tbody>
</table>
## Latin

### IN THE DEPARTMENT OF CLASSICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
</table>
| 113      | INTRODUCTORY LATIN  
MR. HOWARD | Intensive elementary Latin. This course prepares students for Latin 122. *Four credit hours.* |
| 121, 122 | INTERMEDIATE LATIN  
MR. WESTERVELT AND  
MR. HOWARD | First semester: one play of Terence. Second semester: Catullus.  
*Prerequisite:* At least two years of high school Latin. Latin 113 or 121 prerequisite for 122. *Three credit hours.* |
| 131      | INTRODUCTION TO LATIN LITERATURE  
MRS. KOONCE | Plautus. *Three credit hours.* |
| *351     | LATIN LITERATURE  
MR. HOWARD | Lucretius. *Three credit hours.* |
| *352     | LATIN LITERATURE  
MRS. KOONCE | Livy. *Three credit hours.* |
<p>| †[353]   | LATIN LITERATURE | Roman elegy. <em>Three credit hours.</em> |
| [355]    | LATIN LITERATURE | Roman satire. <em>Three credit hours.</em> |</p>
<table>
<thead>
<tr>
<th>Courses</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Latin Literature</td>
<td>Horace: <em>Odes</em> and <em>Ars Poetica</em>. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Latin Literature</td>
<td>Tacitus. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Latin Literature</td>
<td>Virgil: <em>Eclogues</em> and <em>Georgics</em>. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Latin Literature</td>
<td>Terence. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Latin Literature</td>
<td>Virgil: <em>Aeneid</em>. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Independent Reading in Latin</td>
<td>Reading in a field of the student's interest, with essays and conferences. <em>One to three credit hours by prior arrangement.</em></td>
</tr>
<tr>
<td>Mathematics</td>
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</tr>
<tr>
<td>Linear Algebra</td>
<td>Basic concepts and techniques of higher algebra which will be useful to non-majors as well as majors in mathematics. Systems of equations and matrices are used as vehicles for this study. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Calculus I</td>
<td>Elementary differential and integral calculus. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>Calculus II</td>
<td>Further study of differential and integral calculus with selected applications. <em>Prerequisite: Mathematics 121d. Four credit hours.</em></td>
</tr>
</tbody>
</table>
212d
CALCULUS III
STAFF

A continuation of Calculus II.
Prerequisite: Mathematics 122d. Four credit hours.

241, 242
ELEMENTARY STATISTICS
MR. HAYSLETT

Descriptive statistics; elementary probability theory; binomial and normal distributions; elementary sampling theory; tests of hypotheses; confidence intervals; non-parametric statistics; correlation and regression; analysis of variance; time series. Applications are emphasized. Not open to mathematics majors.
Prerequisite: Mathematics 121d. Three 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.

311
DIFFERENTIAL EQUATIONS
MR. COMBEALLACK

Solutions of elementary differential equations and an introduction to partial differential equations.
Prerequisite: Mathematics 122d. Three credit hours.

314
TOPICS IN ANALYSIS
MR. JUNGHANS

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
MR. JUNGHANS

Theory and applications of the Laplace transform.
Prerequisite: Mathematics 311. One credit hour.

332
INTRODUCTORY NUMERICAL ANALYSIS AND PROGRAMMING
MR. JUNGHANS

Solution by numerical methods of equations and systems of 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>352</td>
<td>Complex Variables</td>
<td>The arithmetic and calculus of complex numbers. The basic properties of analytic functions including an introduction to residues and conformal mapping.</td>
<td>Prerequisite: Mathematics 212d.</td>
<td>3</td>
</tr>
<tr>
<td>361, 362</td>
<td>Higher Algebra</td>
<td>Introduction to algebraic structures such as groups, rings, integral domains, fields, and related topics; further study of linear algebra.</td>
<td>Prerequisite: Mathematics 113d and 122d.</td>
<td>3</td>
</tr>
<tr>
<td>381, 382</td>
<td>Mathematical Statistics</td>
<td>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.</td>
<td>Prerequisite: Mathematics 212d.</td>
<td>3</td>
</tr>
<tr>
<td>421, 422</td>
<td>Advanced Calculus</td>
<td>More advanced topics of calculus, including maxima and minima in three and higher dimensions, Jacobians, curvilinear coordinates, special definite and improper integrals, beta function, gamma function, complex variables.</td>
<td>Prerequisite: Mathematics 212d and senior standing or permission of the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>431</td>
<td>Introduction to Topology</td>
<td>General topology, including such topics as elementary point set topology, mappings, and metric spaces.</td>
<td>Prerequisite: Mathematics 421, passed or taken concurrently.</td>
<td>3</td>
</tr>
<tr>
<td>432</td>
<td>Higher Geometry</td>
<td>Properties of various geometries with emphasis on axiomatic development.</td>
<td>Prerequisite: Mathematics 361, 362.</td>
<td>3</td>
</tr>
<tr>
<td>491, 492</td>
<td>Special Topics</td>
<td>Independent study in an area of mathematics of particular interest to the student.</td>
<td>Prerequisite: Mathematics major and permission of the department.</td>
<td>Variable two to four credit hours.</td>
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</tbody>
</table>
Modern Foreign Languages

191, 192
Independent Study in Critical 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 1970-71 Swahili was offered. Possible offerings for 1971-72, depending upon demand, include Chinese, Swahili, and Turkish.

Prerequisite: Permission of department chairman. Three credit hours.

491, 492
Independent Topics in Modern Languages

Individual projects in language or literature in which the student has demonstrated the interest and competence necessary for independent work.

Prerequisite: Permission of department chairman. Three credit hours.

Music

115
Music in the Medieval Era

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. Reading knowledge of music advisable. Three credit hours.

116
Music in the Renaissance Era

Renaissance music in Italy, France, Germany, England, and Spain, with analyses of the madrigal, mass, masque, as well as keyboard, instrumental, and choral forms. Composers include Palestrina, Lassus, Byrd, Vittoria, Merulo, Gibbons, and Hassler. Reading knowledge of music advisable. Three credit hours.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>121, 122</td>
<td>Theory and Practice of Music</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. Three credit hours.</td>
</tr>
<tr>
<td>141d, 142d</td>
<td>Baroque, Classical, and Romantic Music Staff</td>
<td>A survey of the art of music from Bach through the romantic period, with emphasis on style and historical background. Reading and listening assignments. No previous knowledge of music assumed. Formerly listed as Music 101, 102. Three credit hours.</td>
</tr>
<tr>
<td>215</td>
<td>Counterpoint</td>
<td>A study of the principles of the sixteenth, seventeenth, and eighteenth century polyphony. Composition of canons, inventions, and fugues. Analysis of representative works. Three credit hours.</td>
</tr>
<tr>
<td>‡[117]</td>
<td>Transcription of Medieval and Renaissance Manuscripts</td>
<td>An introduction to the skills of manuscript transcription, with representative studies in manuscript from all early schools. Slides, microfilms, original manuscripts, and facsimiles will be used. Reading knowledge of music required. Three credit hours.</td>
</tr>
<tr>
<td>‡[216]</td>
<td>Baroque and Rococo</td>
<td>An analysis of music of the early baroque composers, the operas and oratorios of George Frederic Handel, the instrumental and vocal music of Johann Sebastian Bach and the Bach family, as well as peripheral studies of “baroque” in America. Three credit hours.</td>
</tr>
<tr>
<td>221, 222</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.</td>
</tr>
<tr>
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<td></td>
<td><strong>Prerequisite:</strong> Music 121, 122. Three credit hours.</td>
</tr>
<tr>
<td>312</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.</td>
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<td><strong>Prerequisite:</strong> Permission of the instructor. Three credit hours.</td>
</tr>
</tbody>
</table>
†[321, 322]
THE VIENNESE CLASSICISTS

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.

Prerequisite: Music 101, 102; 141, 142; or permission of the instructor. Three credit hours.

*325, 326
OPERA AND ORATORIO
MR. COMPARETTI

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.

Prerequisite: Music 101, 102; 141, 142; or permission of the instructor. Three credit hours.

491, 492
SPECIAL TOPICS
STAFF

Designed to meet the needs of music majors who have interest and competence in a particular area of investigation.

Prerequisite: Junior standing, at least, and permission of the department. Three credit hours.

APPLIED MUSIC

Private lessons in voice, piano, organ, violin, viola, violoncello, and bass viol are available at additional cost. The department encourages improvement of technical skill in practical music and will assist in securing professional instruction. No academic credit is given for private lessons.

Those interested in voice lessons are referred to Mr. Roger Nye or Mrs. Freda Gray-Masse; in string instruments to Mrs. Mary Hallman or Mrs. Dorothy Reuman; in piano to Mr. Tibor Yusti, Miss Marion McVea, and Mrs. Maria Lake; in organ to Miss Adel Heinrich or Mr. James Armstrong.

For participation in the college glee club, symphony orchestra, or band, a student may receive two credit hours each year after the freshman year provided he has successfully completed a comparable number of hours in music courses offered by the department.
# Philosophy

**IN THE DEPARTMENT OF PHILOSOPHY AND RELIGION**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>123, 124</td>
<td>Introduction to Philosophy, General Problems</td>
<td>Studies of typical problems of Western Philosophy as introduced by some of the great thinkers.</td>
<td>Three</td>
</tr>
<tr>
<td>134</td>
<td>Philosophical Ecology</td>
<td>A consideration of man’s relation to nature. A suitable sequel to either Philosophy 123 or Religion 121.</td>
<td>Three</td>
</tr>
<tr>
<td>211</td>
<td>Moral Philosophy</td>
<td>(a) A study of the bases of judgment on questions of good and bad, right and wrong; (b) the application of ethical principles to questions of political obligations and social value.</td>
<td>Three</td>
</tr>
<tr>
<td>212d</td>
<td>Logic</td>
<td>Elementary deductive and inductive logic. Open to freshmen with permission of the instructor.</td>
<td>Three</td>
</tr>
<tr>
<td>236</td>
<td>Social Philosophy</td>
<td>Readings from Plato, Locke, Rousseau, and Marx; their relevance to contemporary problems.</td>
<td>Three</td>
</tr>
<tr>
<td>313</td>
<td>Aesthetics</td>
<td>Problems that arise in analyses and criticisms of the arts.</td>
<td>Three</td>
</tr>
<tr>
<td>[316]</td>
<td>Types of Philosophy</td>
<td>A contemporary approach to speculative philosophy including a study of methods and criteria, and a comparative study of the major contemporary philosophical systems.</td>
<td>Three</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Instructor</td>
<td>Description</td>
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</tr>
<tr>
<td>317</td>
<td>Philosophy of Science</td>
<td>Mr. Peters</td>
<td>Analytical and interpretive problems in the philosophy of science. Explanation, theory, observation, and associated concepts in the natural and social sciences will be considered. Three credit hours.</td>
</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, &quot;good reasons&quot; theory, and those relating to scientific findings.</td>
</tr>
<tr>
<td>331</td>
<td>History of Ancient Philosophy</td>
<td>Mr. Clark</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 credit hours.</td>
</tr>
<tr>
<td>332</td>
<td>History of Modern Philosophy</td>
<td>Instructor</td>
<td>European philosophy from Descartes to the nineteenth century with special attention to the works of Descartes, Spinoza, Leibniz, Locke, Berkley, Hume, and Kant. Three credit hours.</td>
</tr>
<tr>
<td>333</td>
<td>Philosophy of Education</td>
<td>Mr. Hudson</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 instructor. Three credit hours.</td>
</tr>
<tr>
<td>352</td>
<td>American Thought</td>
<td>Mr. Hudson</td>
<td>American philosophical thought and its implications for education from the colonial period to the present with particular attention to the American enlightenment and pragmatism.</td>
</tr>
<tr>
<td>353</td>
<td>Contemporary Philosophy</td>
<td>Mr. Peters</td>
<td>Major philosophic movements since 1900 are studied as background for examining current philosophical problems in analytic philosophy and phenomenology.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor(s)</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>355</td>
<td>Indian Thought</td>
<td>Mr. Nara Vane</td>
<td>Types of Indian philosophy of the ancient period.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td><em>Prerequisite:</em> Two previous semester courses in philosophy and/or religion; no previous Indian thought.</td>
</tr>
<tr>
<td>356</td>
<td>Indian Thought</td>
<td>[356]</td>
<td>Types of Indian philosophy of the modern period.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Prerequisite:</em> Two previous semester courses in philosophy and/or religion.</td>
</tr>
<tr>
<td>357</td>
<td>Symbolic and Formal Logic</td>
<td>[357]</td>
<td>Mathematical logic (higher order logical calculi); logical theory (anomatization, consistency, completeness, decidability); modal logic; selected topics in philosophical logic (e.g., reference, meaning).</td>
</tr>
<tr>
<td>359</td>
<td>Nineteenth Century Philosophy</td>
<td>[359]</td>
<td>Post-Kantian thinkers such as Hegel, Kierkegaard, Schopenhauer, Nietzsche and Bergson. Special attention to the revolt against reason, evolution, and alienation.</td>
</tr>
<tr>
<td>372</td>
<td>Philosophy of Religion</td>
<td>[372]</td>
<td>The basic postulates of religion, including search for an adequate scheme of verification, analysis of the empirical evidence and the hypotheses which seem to result therefrom, and the relevance of the conclusions for daily life.</td>
</tr>
<tr>
<td>373</td>
<td>History of Medieval Philosophy</td>
<td>[373]</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. Formerly listed as Philosophy 354.</td>
</tr>
<tr>
<td>391, 392</td>
<td>Philosophy Seminars</td>
<td>[391, 392]</td>
<td>Seminars in selected areas of philosophy are presented each semester. Specific subject matter is announced each year prior to registration. Open to majors and non-majors.</td>
</tr>
<tr>
<td>491, 492</td>
<td>Topics in Philosophy</td>
<td>[491, 492]</td>
<td>Special topics are chosen each year to meet the needs of the students involved. Primarily for majors in the department.</td>
</tr>
</tbody>
</table>
Physical Education

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; men only. 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 assist with physical education and to coach girls' athletics.

Prerequisite: Permission of the instructor; women only. Three credit hours.

343, 344
DANCE I AND II INSTRUCTOR

Studio composition and the history of dance prior to the twentieth century. Second semester: contemporary history; twentieth century trends in the dance.

Prerequisite: Permission of the instructor. Three credit hours.

Physics

IN THE DEPARTMENT OF PHYSICS AND ASTRONOMY

141, 142
GENERAL PHYSICS STAFF

An introductory course, quantitative in nature, stressing the interpretation of physical problems in mechanics and analytical electrodynamics. Laboratory.

Prerequisites: Mathematics 121d, 122d, or equivalent (may be taken concurrently). Four credit hours.

211d
ELECTRONICS STAFF

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

Prerequisite: Permission of the department. Variable, one to four credit hours.
213d2
Optics and Atomic Spectra
MR. BANCROFT

Light, and the structure of the atom as revealed by the spectroscope. Consideration is given to the first order theory of geometrical optics in some detail, followed by physical optics, including interference, diffraction, resolving power, and measurement of wavelength. Spectroscopic problems are discussed as class interests dictate. Laboratory.

Prerequisite: Physics 142, and Mathematics 212d (either passed with a grade of C or higher or taken concurrently). Four credit hours.

232d1
Modern Physics
instructor

An elementary introduction to the fundamentals of modern physics. The basic principles of relativity and the quantum theories of atomic and nuclear physics are studied in detail as are topics in molecular and solid state physics.

Prerequisite: Physics 142 or equivalent. Three credit hours.

312
Thermodynamics and Kinetic Theory
MR. BANCROFT

The two basic laws of thermodynamics and their application to ideal gases and to systems of a single component. The kinetic theory of gases, including transport phenomena, is also studied, with some reference to the methods of statistical mechanics.

Prerequisite: Physics 142, and Mathematics 311 (either passed or taken concurrently). Three credit hours.

331
Classical Mechanics
instructor

Vectorial and analytical mechanics. Extensive use is made of vector analysis and of the calculus.

Prerequisite: Physics 142, and Mathematics 311 (either passed or taken concurrently). Three credit hours.

372
Constants Laboratory
MR. BANCROFT

Measurement, in theory and technique, of important physical constants of mechanics, thermodynamics, electromagnetism, and atomic physics.

Prerequisite: Junior standing in physics or permission of the department. Two credit hours.

421, 422
Electricity and Magnetism
MR. BANCROFT

Electromagnetic theory and the theory and practice of electrical measurements. Classical problems in electrostatics and magnetostatics are considered. Electrodynamic phenomena are analyzed, and Maxwell’s equations are discussed in their vector form. Laboratory.
Prerequisite: Physics 142, Mathematics 311, 314 (may be taken concurrently); or permission of the department. Four credit hours.

441, 442
Modern Physics
MR. METZ
Quantum theory, atomic and nuclear structure, and selected topics in areas of contemporary interest.
Prerequisite: Physics 331, 421, 422 (421, 422 may be taken concurrently). Three credit hours.

491, 492
Topics in Physics
STAFF
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. Variable two to five credit hours.

Portuguese
IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

*121, 122
Portuguese as a Second Romance Language
MRS. DOEL
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

132
Psychology and Current Issues
STAFF
An examination, through readings and discussions, of the relevance of contemporary psychology for confronting certain major problem areas in the modern world: identity, conformity, racism, aggression, conflict, behavior control, technology, and education.
Prerequisite: Permission of the department; limited to freshmen. Three credit hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>211d</td>
<td>Introduction to Psychology</td>
<td>Foundations of modern experimental psychology, covering important general principles in the topics of the physiological basis of behavior, sensory processes, perception, learning motivation, emotion, and cognition. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>231d</td>
<td>Personality and Social Psychology</td>
<td>An introduction to psychology through consideration of the structure and function of personality and its operation in the social context. This course may not be taken for credit in addition to Psychology 132. <em>Three credit hours.</em></td>
</tr>
<tr>
<td>311</td>
<td>Motivation</td>
<td>Detailed analysis of current research trends in motivation, their historical antecedents and theoretical implications, with a focus on topics such as drive, reinforcement, consummatory behavior (feeding, courtship and sexual behavior, aggression), imprinting, sleep and dreams, and emotions. <em>Prerequisite: Two semester courses in psychology. Three credit hours.</em></td>
</tr>
<tr>
<td>313</td>
<td>Animal Behavior</td>
<td>The study of behavior from a biological point of view, representing a synthesis of ethology and comparative psychology. The course will include an historical survey of work in animal behavior from the time of Darwin through constructs of classical European ethology, and will consider such topics as causation and development of behavior, cyclical behavior, migration and orientation, territorial behavior, social behavior, and the evolution of behavior. <em>Prerequisite: Two semester courses in psychology, two semester courses in biology, and permission of the instructor. Three credit hours.</em></td>
</tr>
<tr>
<td>314</td>
<td>Developmental Psychology</td>
<td>Principles of development from conception through adolescence, examined from biological, sociocultural, and psychodynamic perspectives. <em>Prerequisite: Two semester courses in psychology or permission of the instructor. Three credit hours.</em></td>
</tr>
<tr>
<td>352</td>
<td>Physiological Basis of Behavior</td>
<td>Structure and function of the nervous system as related to behavior. Physiological basis of sensation, learning, motivation, emotion, and reflex activity. <em>Prerequisite: Two semester courses in psychology, two semester courses in biology.</em></td>
</tr>
</tbody>
</table>
courses in biology, and permission of the instructor. *Four credit hours.*

### 361, 362
**Personality and Abnormal Psychology**  
Mr. Lester and Mr. Perez

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. Formerly listed as Psychology 331. Second semester: special emphasis on the dynamics of the neurotic and psychotic personalities. Formerly listed as Psychology 355.

*Prerequisite:* Two semester courses in psychology. *Three credit hours.*

### 374
**Psychological Tests and Measurements**  
Mr. Lester

A study of the construction and application of tests for the assessment of intelligence, aptitude, achievement and personality by means of objective and projective techniques. Consideration is given to relevant statistical concepts.

*Prerequisite:* Two semester courses in psychology. *Three credit hours.*

### 381, 382
**Experimental Psychology**  
Mr. Zohner

Discussion of the planning, execution, and interpretation of research in psychology, with special attention to the areas of learning and perception.

*Prerequisite:* Mathematics 241, 242, two semester courses in psychology, and permission of the instructor. *Three credit hours.*

### 392
**History and Systems of Psychology**  
Mr. Johnson

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

*Prerequisite:* Three semester courses in psychology. *Three credit hours.*

### 411
**Advanced Child and Adolescent Psychology**  
Mr. Zohner

Historical, theoretical, and empirical aspects of the development of the individual. Special attention will be given to a critical analysis of existing research and methodology.

*Prerequisite:* Psychology 314 and permission of the instructor. *Three credit hours.*

### 453d
**Social Psychology**  
Mr. Gillespie

Selected topics in contemporary social psychology: attitudes, socialization, culture and mental health, etc. This course is also applicable as a course in sociology toward the major in that department.
Selected issues in the areas of psychology and psychiatry: a seminar devoted to the problems and implications of current perspectives on human behavior.

Prerequisite: Psychology 362 (or 355), 392, and permission of the instructor. 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 department. Three credit hours.

Religion

IN THE DEPARTMENT OF PHILOSOPHY AND RELIGION

121, 122
Introduction to
Western Religion
mr. toddrank

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.

217
Religion in America
mr. longstaff

A study of 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.

218
The Scientific
Study of Religion
mr. thorwaldsen

A survey of methodologies and classical studies in the disciplines of anthropology, sociology, psychology, history of religions, economics, art history and theology. Enrollment limited. Three credit hours.

223, 224
Biblical Literature
mr. longstaff

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 credit hours.

311, 312
Religions of the
East
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.

Prerequisite: Permission of the instructor. Three credit hours.
<table>
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
</table>
| †[316] | Contemporary Western Theology | Current significant religious perspectives, including selections from liberal, neo-orthodox, existential, secular, radical, Black, and process theologies.  
*Prerequisite:* Religion 121, 122. *Three credit hours.* |
| [351] | The Book of Job | 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.  
*Prerequisites:* 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.* |
| •371 | Utopian Religion  
Mr. Todrank | Utopian religion: a new Adam and a new Eden; the roles of biochemistry, electronics, politics, ethics, and theology in the religion of the near future. *Three credit hours.* |
| •372 | Philosophy of Religion  
Mr. Todrank | Listed as Philosophy 372 (q.v.). *Three credit hours.* |
373

History of Medieval Philosophy

Mr. Thorwaldsen

Listed as Philosophy 373 (q.v.). Three credit hours.

†[391], 392

Seminar

Mr. Longstaff

The topic for 1971-72 will be: Judaism, Ancient and Modern; an intensive study of the beliefs and practices of Judaism in the postbiblical period. The seminar will emphasize the development from the classical period (the age of the Tannaim) to the modern period. Current movements in Judaism will be discussed.

Prerequisite: Religion 223. Three credit hours.

[491, 492]

Topics in Religion

Special topics are chosen each year to meet the needs of the students involved. Primarily for majors in the department.

Prerequisite: Permission of the department. Variable, two to four credit hours.

Russian

In the Department of Modern Foreign Languages

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

111, 112

Elementary Russian

Mr. Kempers

Introduction to the language by a modified 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. Class meets daily Monday through Friday. Four credit hours.

113, 114

Intermediate Russian

Mr. Kempers

Continued practice in the oral-aural skills, with increasing emphasis on reading and writing through study of selections from Russian literature. These studies, and the review of grammar, are supplemented with drill work in the language laboratory. Class meets four times a week.

Prerequisite: Russian 112 or two years of high-school Russian and appropriate score on the placement test. Four credit hours.
132
Pasternak and Solzhenitzyn
A study of the major works in English translation of two contemporary Soviet Nobel Prize winners, Boris Pasternak (1958) and Aleksandr Solzhenitsyn (1970). Three credit hours.

133
Dostoevski
Mrs. Mursin
A study of Dostoevski’s major works in English translation. Three credit hours.

134
Tolstoi
Mrs. Mursin
A study of some of Tolstoi’s representative short stories, major novels, and philosophical and critical writings, in English translation. Three credit hours.

225, 226
Advanced Russian
Mrs. Mursin
Along with continued work on the language, the study and interpretation of significant works of Russian literature is introduced.

Prerequisite: Russian 114 or three years of high-school Russian and appropriate score on the placement test. Three credit hours.

245, 246
Readings of Expository Prose
Mr. Kempers
Designed to give the student a working knowledge of Russian as used for informational purposes and distinct from the language of belles-lettres. Extensive readings in the social and natural sciences; intensive translation of selected passages.

Prerequisite: Russian 114 or permission of the instructor. Three credit hours.

321, 322
Introduction to Russian Literature
Mrs. Mursin
Selected works of some of the authors of the nineteenth century, with emphasis on the novel and theatre.

Prerequisite: Russian 226, or permission of the instructor. Three credit hours.

491, 492
Topics in Russian 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 Russian Literature
Mrs. Mursin
Topics which change each semester may cover an author, a genre, or a literary movement.

Prerequisite: Permission of the instructor. Three credit hours.
Social Science

DIVISIONAL COURSE

[121e, 122]
GREAT SOCIAL THINKERS AND PROBLEMS OF THE WESTERN WORLD

First semester (and for a part of the second semester): a study of writings of a few great social thinkers from Plato through Locke and Marx. Remainder of the second semester: discussion sections separate so that each may consider intensively a special contemporary problem for which the readings of the first semester are background. *Three credit hours.*

Sociology

112
INTERACTION PROCESS ANALYSIS
MR. ROSENTHAL

The study of 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.*

*276
PRE-COLUMBIAN MIDDLE AMERICA
MR. HICKOX

A survey of the archaeology and ethnology of Middle America, with special consideration given to the rise of the high civilizations.

Prerequisite: Sociology 222 at least concurrently and permission of the instructor. *Three credit hours.*

†[278]
PRE-COLUMBIAN NORTH AMERICA

A survey of the archaeology and ethnology of North America emphasizing the unique cultural traits of Eastern Woodlands, Plains, Northwest Coast, and Southwest.

Prerequisite: Sociology 222 at least concurrently and permission of the instructor. *Three credit hours.*
331

**Contemporary Social Problems**

MR. DOEL

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.*

†[333]

**Delinquency and Crime**

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

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

335

**Human Ecology**

MR. DOEL

A consideration of 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.

*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.*

354

**Comparative Social Systems**

MR. DOEL

A comparative study of contemporary societies, including "advanced" and "backward" countries. Western countries are compared to such eastern societies as China and India.

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

*361, 362

**Cultural Anthropology**

MR. BIRGE

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.*
371

SOCIAL STRATIFICATION

Mr. Marks

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.

Prerequisite: Sociology 221, 222. Three credit hours.

373

THE FAMILY

Mr. Marks

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.

381, 382

INTRODUCTION TO RESEARCH AND METHODOLOGY IN SOCIOLOGY

Instructor

A basic course designed to introduce the student to the variety of standard research techniques and methodological procedures employed by social scientists. Research design, sampling, scaling, and testing techniques will be among the major topics studied. Second semester: prime focus directed at the examination and evaluation of existant 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.

392

SOCIAL CHANGE

Mr. Geib

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

Prerequisite: Sociology 221, 222. Three credit hours.

393

COMPLEX SOCIAL ORGANIZATIONS

Mr. Geib

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.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>401, 402</td>
<td>Sociology Seminar</td>
<td>Major problems of sociology as a science. Much of the work is devoted to individual projects, developed from group discussions.</td>
<td>Senior standing and permission of the instructor.</td>
<td>Three</td>
</tr>
<tr>
<td>411</td>
<td>Normative Social Theory</td>
<td>Normative social theory with special emphasis upon such works as Plato's Republic, Owen's A New View of Society, and Bellamy's Looking Backward.</td>
<td>Sociology 221, 222.</td>
<td>Three</td>
</tr>
<tr>
<td>412</td>
<td>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.</td>
<td>Sociology 221, 222.</td>
<td>Three</td>
</tr>
<tr>
<td>416</td>
<td>Special Topics</td>
<td>Topic in 1972: Sociology and Marxism.</td>
<td>Senior standing and permission of instructor.</td>
<td>Three</td>
</tr>
<tr>
<td>491, 492</td>
<td>Topics in Sociology</td>
<td>Individual topics in areas where the student has demonstrated interest and competence necessary for independent work.</td>
<td>Senior standing and permission of the department.</td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>INTERDEPARTMENTAL Course</td>
<td>Psychology 453, Social Psychology, is also applicable toward fulfillment of the major in sociology (see psychology listings for description of this course).</td>
<td></td>
<td>Three</td>
</tr>
</tbody>
</table>
Spanish

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

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

111, 112
ELEMENTARY SPANISH
STAFF

Introduction to the language by an audiolingual method, with emphasis on understanding, speaking, and reading. Use of taped materials in the language laboratory is a regular part of the class work. Class meets daily Monday through Friday. Four credit hours.

113, 114
INTERMEDIATE SPANISH
STAFF

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.

125, 126
INTRODUCCION AL MU NDO HI SPANICO
STAFF

The Hispanic tradition reflected in the works of major figures of Spain and Latin America. In-depth study of selected works with collateral readings. A supplementary hour of language work (Spanish 127, 128) is recommended.

Prerequisite: Spanish 114. Three credit hours.

127, 128
WRITING WORKSHOP IN SPANISH
STAFF

Practice in writing, free composition, grammar review.

Prerequisite: Student must be registered concurrently in Spanish 125, 126. One credit hour.

257
THE GENERATION OF 1898
MR. CAUZ

The more important members of the generation of 1898, with emphasis on Unamuno, Azorin, Baroja, Valle-Inclan, and Machado.

Prerequisite: Spanish 126. Three credit hours.

†[258]
SPANISH LITERATURE OF THE TWENTIETH CENTURY

Outstanding prose and poetic works of the contemporary period with emphasis on living authors.

Prerequisite: Spanish 126. Three credit hours.
271d2 PROTESTA Y VIOLENCIA MR. CAUZ

An exploration and analysis of Hispanic literature of social protest and its violent manifestations.

Prerequisite: Spanish 126. Three credit hours.

†[272] LATINOAMERICA: EL INDIO Y EL NEGRO

The portrayal of the Indian and the black in contemporary Latin American literature.

Prerequisite: Spanish 126. Three credit hours.

315 LA ESPANA DE GALDOS MR. PEREZ

A panorama of nineteenth century Spain seen through the novelistic documentation of Benito Perez Galdos.

Prerequisite: Spanish 126. Three credit hours.

332 LA NUEVA NOVELA HISPANOAMERICANA MR. HOLLAND

A study of the contemporary Spanish-American novel. Authors to be studied will include Borges, Carpentier, Fuentes, Garcia Marquez, Rulfo, Vargas Llosa.

Prerequisite: Spanish 126. Three credit hours.

†[351] THE THEATRE OF THE GOLDEN AGE

The theatre of the Golden Age, with emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcon, and Calderon de la Barca.

Prerequisite: Spanish 126. Three credit hours.

†[352] THE NOVEL OF THE GOLDEN AGE

The novel of the Golden Age, with particular attention to the picaresque novel, and to the Novelas Ejemplares and Don Quixote of Cervantes.

Prerequisite: Spanish 126. Three credit hours.

[355] SPANISH DRAMA AND POETRY OF THE NINETEENTH CENTURY

Spanish poetry and drama in the nineteenth century, with emphasis on the more important romantic and realistic dramatists and poets.

Prerequisite: Spanish 126. Three credit hours.

411 TEACHING OF MODERN FOREIGN LANGUAGES MR. BUNDY

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 Certificate. Conducted in English.

Prerequisite: Six hours of Spanish beyond 126. 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 Spanish 411. Two credit hours.

491, 492 TOPICS IN SPANISH 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 SPANISH AND LATIN AMERICAN LITERATURE

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

The director of placement and career planning 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 graduate and professional school 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 pre-law 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.

DENTISTRY

Although some dental schools admit applicants after three years, and sometimes 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 pre-medical preparation committee is advisory to candidates for dentistry, as well as to those for medicine.

MEDICINE

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.

The committee on professional preparation for medicine,
which should be consulted by the student early in his freshman year, strongly advises 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.

**ENGINEERING**

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 College and two at the University. 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 which 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.

**THEOLOGY**

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.

**SECONDARY SCHOOL TEACHING**

Because education is an eclectic, interdisciplinary study which 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, and commonly taught 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 preschool 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 Colby Placement Office, the Office of Education, and the Secondary School Teaching Committee 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
III  DIRECTORIES AND APPENDICES

151  THE CORPORATION

155  FACULTY

170  ADMINISTRATIVE STAFF

174  ENROLLMENT BY STATES AND COUNTRIES

175  HONORS AND AWARDS
   COLLEGE PRIZES, 176
   HONORS AND DEGREES, 184

191  INTERVIEWERS FOR ADMISSION

197  INDEX

   COLLEGE CALENDAR, 1971-1972, INSIDE BACK COVER
The Corporation

Corporate Name  THE PRESIDENT AND TRUSTEES OF COLBY COLLEGE

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Acting Dean of the Faculty  ROBERT MARK BENBOW, PH.D.

Administrative Vice-President  ROBERT WHITE PULLEN, PH.D.

Vice-President for Development  EDWARD HILL TURNER, B.A.

Secretary  ROBERT WHITE PULLEN, PH.D.

Treasurer  ARTHUR WILLIAM SEEPE, M.C.S.

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(DWIGHT EMERSON SARGENT, M.A.)  Cambridge, Massachusetts
(JOSEPH COBURN SMITH, M.A., L.H.D.)  South Portland, Maine

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AL. 1973  SIGRID E. TOMPKINS, LL.B.

'Honorary life member
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| (1971) | ROBERT FREDERIC WOOLWORTH, M.A. | Winthrop, Maine |

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| GUSTAVE HERMAN TODRANK, PH.D. | Waterville, Maine |

**STUDENT REPRESENTATIVES (1971)**

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| STEPHEN R. ORLOV '71 | Hull, Massachusetts |

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- ELIZABETH AND ELLIOTT STANTIAL
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- Belgrade, Maine
- Winthrop, Maine
- Waterville, Maine
- Portland, Maine
- Waterville, Maine
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- Waterville, Maine
- Waterville, Maine
- Waterville, Maine
- Waterville, Maine
- Melrose, Massachusetts
- Belgrade, Maine
- Waterville, Maine
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OF TRUSTEES, 1970-1971

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Mrs. Piper and Mr. Grossman.
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Professor of Modern Languages

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Professor of Music

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Professor of Philosophy

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Dana Professor of Biology

Professor of English; President

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Wadsworth Professor of Business Administration

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Associate Professor of Modern Languages

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Associate Professor; Librarian

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DAVID GORDON BRIDGMAN, PH.D. (Yale, Wisconsin, Harvard)
Associate Professor of History

FRANCISCO ANTONIO CAUZ, M.A. (Villanova, Middlebury)
Associate Professor of Modern Languages

EILEEN MARY CURRAN, PH.D. (Cornell, Cambridge, Cornell)
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JACK DONALD FONER, PH.D. (City College of New York, Columbia)
Associate Professor of History

FREDERICK ARTHUR GEB, PH.D. (New Hampshire, Brown, Syracuse)
Associate Professor of Sociology

DON G. HARRIS, B.A. (Park) (Lt. Col., USAF)
Associate Professor (designated Professor) of Aerospace Studies
Charles F. Hickox, Jr., Ph.D. (Harvard, Columbia, Yale)
Associate Professor of Geology; Director of Financial Aid;
Coordinator of Government Supported Programs

Jan Stafford Hogendorf, Ph.D. (Wesleyan, London School of Economics)
Associate Professor of Economics

Yeager Hudson, Ph.D. (Millsaps, Boston University)
Associate Professor of Philosophy

Associate Professor of Education

John Kempers, Ph.D. (Hastings, Nebraska, Syracuse)
Associate Professor of Modern Languages

Dorothy Marie Koonce (Mrs.), Ph.D. (Cornell, Pennsylvania)
Associate Professor of Classics

Hubert Christian Kueter, Ph.D. (Valparaiso, Michigan)
Associate Professor of Modern Languages

Florence Elizabeth Libbey, M.S. (Colby, Columbia)
Associate Professor; Associate Librarian

Colin Edward MacKay, Ph.D. (Brown)
Associate Professor of English

Earle Alton McKeen, M.Ed. (Colby, Maine)
Associate Professor; Director of Placement and Career Planning

William Blackall Miller, Ph.D. (Harvard, Columbia)
Associate Professor of Fine Arts

Paul Powers Perez, Ph.D. (U.S. Coast Guard Academy, New York University)
Associate Professor of Psychology

Associate Professor of Chemistry

Jonas Oettinger Rosenthal, M.A. (Swarthmore, North Carolina)
Associate Professor of Sociology; Coordinator of Student Advising

Henry Otto Schmidt, Ph.D. (Ursinus, Pennsylvania, Boston University)
Associate Professor of Modern Languages

Arthur William Seepe, M.C.S. (Dartmouth, Amos Tuck)
Associate Professor of Administrative Science; Treasurer
GORDON WINSLOW SMITH, M.A.² (Boston University, Harvard)
*Associate Professor of Modern Languages*

IRVING DAVID SUSS, PH.D.³ (North Carolina, Columbia)
*Associate Professor of Dramatics in the Department of English*

PETER WESTERVETL, PH.D. (Harvard)
*Associate Professor of Classics*

JOHN WORDE WINKIN, JR., ED.D. (Duke, Columbia)
*Associate Professor of Physical Education*

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LUCILLE PINETTE ZUKOWSKI (MRS.), M.A. (Colby, Syracuse)
*Associate Professor of Mathematics*

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CHARLES WALKER BASSETT, PH.D. (South Dakota, Kansas)
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*Assistant Professor of English*

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Assistant Professor of Physics

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Assistant Professor of English

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Assistant Professor of Art

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Visiting Assistant Professor of Music; Artist in Residence

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Instructor in Modern Languages

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THOMAS RICHMOND W. LONGSTAFF, B.A., B.D. (Maine, Bangor Theological)
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JOHN H. MCGOWAN, JR., B.A. (Colby)
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Instructor in English

RICHARD LATHAM WHITMORE, JR., B.A. (Bowdoin)
Instructor in Physical Education and Athletics

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COR DE HART, M.D., M.S. (Amsterdam, Columbia)
Visiting Lecturer in the Department of Psychology

SIDNEY W. FARR, M.A. (Colby, Maine)
Lecturer in Government; Alumni Secretary

*In France 1970-1971, Director, Junior Year in France Program
‡Part-time
¹On leave, first semester, 1970-1971
²On leave, second semester, 1970-1971
³On leave, full year, 1970-1971
⁴First semester only, 1970-1971
⁵Second semester only, 1970-1971
COLLEGE COMMITTEES

1970-1971

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.

ADMINISTRATIVE

President Strider; Dean Benbow; Vice-President Pullen; Dean Mavrinac; Professors Jacobson (73), Maier (71), Westervelt (72). Assistant to the President, Mr. Dyer; Administrative Assistant to the President, Dr. Kany, Secretary to the Committee; and three students (Messrs. Gawthrop, Cummings, Miss Littleton).

ADMISSIONS

Deans Carroll, Benbow, Mavrinac, Smith; Vice-President Pullen; Professors Peters (71, first semester), Hudson (71, second semester), Scott (72), Curran (73); Director of Career Planning & Placement, Mr. McKeen; and three students (Messrs. Brown, Surdut, Miss Ross); and one non-voting alumnus (alumna), Mrs. Stephenson.

SUB-COMMITTEE ON FOREIGN STUDENTS

Professor Holland; Dean Carroll, Professors Coleman, Easton, Pan; Director of Financial Aid, Professor Hickox; Mr. Arnold; and four students (Messrs. Moschos, Hermant, Yalinpala, Miss Armitage).

AFROTC

Professors Knox, Brancaccio, Dunlevy, Harris; Alumni Secretary, Mr. Farr; and four students (Messrs. Crabtree, Lawhorne, Misses Chester, Safinya).

ARCHITECTURAL

Professors Miller, Blake, Ferguson; Dean Benbow; Vice President Pullen; and three students (Messrs. Philson, Pinkham, Miss Olivet).

ATHLETICS

Professors Machemer, Kempers, Pestana, Winkin; Capt. Hilinski; Director of Student Activities, Professor Burke; and five students (Messrs. Aronson, Blanker, Hamilton, Lupton, Miss Chester); and one non-voting alumnus, Mr. Beach.

BOOKSTORE

Professors Norford, Seepe; Messrs. Doan, Marks; and three students (Messrs. Benson, Blake, Campbell).

CAMPUS NATURAL ENVIRONMENT

Professors Johnson, Allen, Easton, Stratman, Witham; Vice President Pullen; Acting Superintendent of Buildings and Grounds, Mr. Grindall; and two students (Miss Traver, Mr. Woodruff).

COMMENCEMENT

Director of Student Activities, Professor Burke; Administrative Vice-President Pullen; Vice-President Turner; Registrar, Professor Coleman; Assistant to the President, Mr. Dyer; Professors Blake.
E. Comparetti, Junghans, Walker, Winkin, Witham; Messrs. Farr, Grindall, Sanborn, Schulten, G. Wilson; and the senior class officers (Messrs. Dyer, Markos, Zacamy, Miss Hight).

**EDUCATIONAL POLICY**
Professors Mayo, Fowles, Gemery (71), Howard (71), L. Zukowski (71), Sutherland (72), Berschneider (72), W. Smith (72); President Strider; Dean Benbow. Without vote: Dean Mavrinac; Administrative Assistant to the President, Dr. Kany; one alumnus (alumna), Mrs. Piper; three students selected by Student Government (Miss Additon, Messrs. Maramarco, Powell); and two students appointed by the President (Messrs. Hogan, Shell).

**EXAMINATIONS AND SCHEDULE**
Registrar, Professor Coleman; Professors Combellaclack, Gillum, Holland, MacKay, McGee, Ray, W. Zukowski; and two students (Misses Feinberg, Wasserman).

**FINANCIAL AID**
Vice-President Pullen; Deans Mavrinac, Carroll, Downing; Treasurer, Mr. Seepe; Director of Financial Aid, Professor Hickox; Professors Brancaccio (71), Cox (71), Thorwaldsen (72), Allen (73); one non-voting alumnus, Mr. Vigue; and four students (Miss Kinney, Messrs. Gordon, Sherer, Sherman).

**FINANCIAL PRIORITIES**
Vice-President Pullen; Dean Benbow; Professors Kellenberger (71), Hudson (72), Machemer (73); one non-voting alumnus, Mr. Rowell; and three students (Messrs. Briggs, Carey, Sherman).

**FOREIGN STUDIES AND STUDENT EXCHANGE PROGRAMS**
Professor Kellenberger; Deans Mavrinac, Downing; Registrar, Professor Coleman; Professors Biron, Curran, Johnson, Metz, Reuman; and four students (Misses Armitage, Bernard, Christensen, Mr. Benson).

**FRESHMAN WEEK**
Director of Student Activities, Professor Burke; Deans Mavrinac, Smith; Registrar, Professor Coleman; Professor Rosenthal; Mr. Hunt; and five students (Miss Yovic, Messrs. Eisen, Drouin, LeVeen, Rappaport).

**HONORARY DEGREES**
Professors Reid, Birge, Landsman, Matthews, Mizner, Raymond, Ré, Todrank, Weissberg; and two students (Miss Boyle, Mr. Clearey).

**LIBRARY**
Professors Jacobson, Blake, R. Doel, Foner, Fuglister, Gillum, Libbey, Russ, Taffe, Zohner; and five students (Misses Garner, Rachal, Safinya, Messrs. Hoitt, Surdut).
PROFESSIONAL PREPARATION*

**College Teaching** Professors Schmidt, Small, D. Koonce.

**Engineering** Professors Bancroft, Korejwo, Ray.

**Law and Government Service** Professors Berschneider, Hogendorn, Weissberg.

**Medicine and Dentistry** Professors Terry, Maier, Perez.

**Secondary School Teaching** Professors Jacobson, Knox, Meek.

**Theology** Professors Thorwaldsen, Clark, Longstaff.

**Rights and Rules** Professors Terry, C. Ferguson, Thorwaldsen; Deans Mavrinac, Downing; and seven students (Misses Chester, Marks, O'Hanian, Messrs. Didsbury, Gordon, Hogan, Rouhana).

**Safety** Acting Superintendent of Buildings and Grounds, Mr. Grindall; Deans Mavrinac, Smith; Treasurer, Professor Seepe; Professor Covell; and three students (Miss Leslie, Messrs. Maramarco, Savory).

**Senior Scholars** Professors Cary, Bancroft, Bridgman, Heinrich, Maier, Mursin, F. Perez; and two students (Miss Russell, Mr. Payson).

**Special Programs** Professors Mayo, Geib, Kueter, Raymond, Small, Westervelt; Dean Benbow; Director of Special Programs, Professor Walker; and four students (Miss Levine, Messrs. Aronson, Hancock, Rouhana).

**Standing** Professors Koons, Knight, P. Bither (first semester) and Curran (second semester); Deans Benbow, Mavrinac; Registrar, Professor Coleman; and two students (Miss Winslow, Mr. Newman).

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**Faculty Committees**

**Graduate Scholarship** Director of Career Planning & Placement, Professor McKeen; Director of Financial Aid, Professor Hickox; Dean Benbow; Professors Bassett, A. Comparetti, Elison, Filosof, Junghans, Scholz, Sweney, Todrank.

**Grievance** Professors Berschneider, Biron, Hudson.

**Nominating** Professors Weissberg, Bancroft, Brancaccio, Cox, Maier, Peters, G. Smith.

**Remembrance** Professors McGee, M. Bither, Libbey; Mrs. Hodsdon.

*One student serves on each committee on professional preparation in an advisory capacity.*
RESEARCH, TRAVEL, SABBATICAL Dean Benbow; Vice-President Pullen; Professors Carpenter, Gillespie, Reid.

SOCIAL Professors P. Doel, Kerkham; Messrs. Green, Hodges.

CONFERENCE AND REVIEW BOARD Eighteen Faculty Members:
Elected to represent Humanities Division:
Professors Biron, Holland, Kenney.
Elected to represent Social Sciences Division:
Professors Gillespie, Jacobson, Knight.
Elected to represent Natural Sciences Division:
Professors Easton, Koons, Pestana.
Elected to represent Division of Aerospace Studies:
Professor Harris.
Elected to represent Division of Physical Education:
Professor Nelson.
Elected at large:

Eighteen Students: Misses Chester, Joslyn, Shreve; Messrs. Blake, Freeman, French, Hancock, Hogan, Koss, Madden, McGill, Mickelson, Nahra, Orlov, Philson, Rappaport, Sherman, Vaughan.

Executive Committee of Conference and Review Board:

FACULTY REPRESENTATIVES TO STUDENT GOVERNMENT Professors Cox, Kueter, Landsman, P. Perez, Sweney.

STUDENT REPRESENTATIVES TO FACULTY MEETINGS Messrs. Blake, Eisen, Gordon, Hogan, Meserve, Orlov, Philson.
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Virginia A. Shaw  
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Readers' Services Assistant, Library

Zella Wyer Taylor (Mrs.)
Clerk, Treasurer's Office

Frances Elizabeth Thayer, B.A.
Assistant to the Dean of Students

Alice Trask (Mrs.)
Secretary, Alumni Office

Esther Trott (Mrs.)
Secretary, Development Council

Elizabeth Eleanor Warren (Mrs.)
Secretary to the Administrative Vice-President

Lillian Williams (Mrs.)
Clerk, Treasurer's Office

Barbara Williamson (Mrs.)
Mailing Room Clerk

MAINTENANCE STAFF

J. Norman Poulin
Sanitation Foreman

Robie F. Bickmore
Heating Foreman

Fernand J. Michaud
Outside Foreman

Roy Brackett
Electrical Foreman

NURSES

Margaret E. Cousins, R.N.
Elizabeth Frost (Mrs.), R.N.
Harriet Gould (Mrs.), R.N.
Penelope A. Maheu (Mrs.), R.N.
Jean Palmer, R.N.
Medora Savasuk (Mrs.), R.N.

DIETARY STAFF

Richard Duncan
Manager, Dana Dining Hall

Inza T. Foster (Mrs.)
Manager, Foss Dining Hall

Philip Girouard
Manager, Roberts Union Dining Hall

Dennis Watson
Assistant Manager, Roberts Union Dining Hall

RESIDENCE STAFF

Andrew W. Dreeland
Head Resident, Pepper

Mrs. Betty Hill
Directress, Runnals Union

Mr. and Mrs. Hubert C. Kueter
Head Residents, Dana

Miss Judith Y. Mandeville
Head Resident, Mary Low

Mr. and Mrs. Ward E. Shaw
Head Residents, Leonard,
Marriner, Sturtevant and Taylor

Mr. and Mrs. William Taffe
Head Residents, Foss and Woodman

The Rev. Roland W. Thorwaldsen
Head Resident, Coburn

Priscilla Sargent, R.N.
Head Nurse in Residence

Carl E. Nelson, M.Ed.
Director of Health Services

Philip Swett
Assistant Director of Health Services

Clarence E. Dore, M.D.
College Physician

John F. Reynolds, M.D.
Consultant in Surgery

Cor De Hart, M.D., M.S.
Consultant in Psychiatry

The Rev. Roland W. Thorwaldsen
Head Resident, Coburn
# Enrollment by States and Countries

**Classified According to Geographical Locations of Students' Homes, 1970-1971**

<table>
<thead>
<tr>
<th>All Areas</th>
<th>Total</th>
<th>Men</th>
<th>Women</th>
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<tr>
<td>Grand Total</td>
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### New England

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### Foreign Countries

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<tr>
<td>England</td>
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<td>Hong Kong</td>
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<td>Iceland</td>
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<tr>
<td>West Indies</td>
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* denotes American citizen
** denotes one of total is American citizen
*** denotes two of total are American citizens
Honors and Awards

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 and Cap and Gown, honor societies for senior men and senior women respectively; 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 3.20 in a minimum of twelve credit hours for upper-classmen, 3.00 in a minimum of twelve credit hours for freshmen.
College Prizes

GENERAL

Frederick F. Brewster Honor Scholarship.

Bixler Bowl Award. Awarded to that fraternity which has, as a group, contributed most constructively to the overall work of the college program.
Not awarded in 1970.

Bixler 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.

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.
Awarded in 1970 to Paulette L. Archambault ’73.

Colby Library Associates Book Prize.
Awarded in 1970 to Robert Edward French ’70.

Columbia Teacher’s College Book Prize. Presented to a member of the junior class who has displayed a high degree of constructive intellectual interest in educational issues.
Awarded in 1970 to William Mark Simons ’71.

Condon Medal. Gift of the late Randall J. Condon, 1886, 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.”
Awarded in 1970 to Benjamin White Kravitz ’70.

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 during the freshman year. Each year approximately twenty new Dana Scholars are selected.

Delta Alpha Upsilon Scholarships. Given to undergraduate women for well-defined educational objectives and outstanding campus leadership.
Not awarded in 1970.

Adelaide True Ellery Scholarship. Awarded to a woman for outstanding religious leadership.
Not awarded in 1970.
Lelia M. Forster Prizes. Awards are made to the young man and young woman "of the preceding entering class 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."
Awarded in 1970 to Cindy Mae Canoll '73; Charles James Hogan '73.

Phyllis S. Fraser Scholarship. Presented by Alpha Chapter of Sigma Kappa to a Colby son or daughter.

Lieutenant John Parker Holden, II, Award. For students who exemplify the ideals of citizenship, responsibility, integrity, and loyalty.
Awarded in 1970 to Gary Richard Fitts '73.

Donald P. Lake Award. Given to a senior whom the Varsity "C" Club selects for outstanding scholastic achievement, athletic leadership and ability.
Awarded in 1970 to Peter Clark Bogle '70.

Kim Miller Scholarship and Trophy. Given by the alumni and active members chapter of Lambda Chi Alpha to an outstanding junior man who exemplifies the qualities of friendship, individualism, and leadership.

George T. Nickerson Award. Presented by the Interfraternity Council to the fraternity which fosters to the greatest extent student, faculty, and administrative relations.
Not awarded in 1970.

Ninetta M. Runnals Scholarship. Awarded by Delta Alpha Upsilon to an undergraduate for scholastic performance, well-defined educational objectives and community participation.
Not awarded in 1970.

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."

Carrie M. True Award. Given to a woman selected for pro-
nounced religious leadership and influence in the life of the college.
Not awarded in 1970.

_Scott Paper Foundation Award for Leadership._ Awarded to a sophomore man who has demonstrated outstanding scholarship, leadership, and participation in extracurricular activities.
Awarded in 1970 to _Swift Tarbell, III '72_.

_Waterville Area Colby Alumni Association Award._ Presented for scholastic and personal achievement to a senior from the Waterville area.
Awarded in 1970 to _Richard Irving Hunt, Jr. '70_.

**ADMINISTRATIVE SCIENCE**

_Ernest L. Parsons Prize._
Awarded in 1970 to _Brian Jay Cooke '70; Martin Thomas Kolonel '70_.

_James J. Harris Prize._
Awarded in 1970 to _Douglas Edward Reinhardt '71; Philip Saul Singer '71_.

_The Wall Street Journal Award in Finance._
Awarded in 1970 to _Jeffrey Alan Parness '70_.

**ART AND ARCHITECTURE**

_George Adams Dietrich Award._
Awarded in 1970 to _Alicia Flavelle Ritts '71_.

_Charles Hovey Pepper Prize._
Awarded in 1970 to _Charles Aloysius Lord, Jr. '70; Sarah Owen Tabor '70_.

_The Dodge Prizes._
Not awarded in 1970.

_Architectural Model Prizes._
Not awarded in 1970.

**CLASSICS**

_John B. Foster Prize._
Awarded in 1970 to _Sarah Eileen Vose '70; Alison Jane Harvey '70_.

**ECONOMICS**

_Departmental Prize in Economics._
Awarded in 1970 to _Adrienne Phyllis Creanza '70_.

**ENGLISH**

_George Adams Dietrich Award in Literature._
Awarded in 1970 to _William Paul Shumaker '71_.

_Mary Low Carver Prizes for Poetry._
Awarded in 1969 to:
Women: 1st Prize: Nadine Joyce MacDonald '70.  
2nd Prize: Jan Dale Farnum '71.

Men: 1st Prize: James Lawrence Martin '70.  
2nd Prize: Barrett Alan Hurwitz '70.

Solomon Gallert Prizes.  
Awarded in 1970 to Norma Jean Ouellet '72.

Elmira Nelson Jones Essay Prize.  
Awarded in 1970 to Anthony Martin Maramarco '71.

HISTORY AND GOVERNMENT  
Paul A. Fullam History Prize.  
Awarded in 1970 to Caryl Ann Callahan '70; Bruce Alan Abrams '70.

William J. Wilkinson History Prize.  
Awarded in 1970 to Margaret Frances Wiehl '71.

The F. Harold Dubord Prize in Political Science.  
Awarded in 1970 to Barbara Irene Hamaluk '70; William Pike Hardy '71.

MODERN LANGUAGES  
French Consulate Book Prizes.  
Awarded in 1970 to Donna Swain Mason '70; Martha Carson McCall '70; Fran Felice Koski '72; Barbara Renée Senges '72; Linda Kay Wackwitz '72; Susan Jeanne Pinciaro '73; Hope Ilona Gottlieb '73.

German Consulate Book Prizes.  
Awarded in 1970 to Seung Kwon Kim '73; Karen Lillian Kruskal '73; Mary Margaret Stephens '70; Barbara Gertrud Friederike Hoene '72; Kathryn Carolyn Hill '70.

German Club Prizes.  
Combined with German Consulate Book Prizes.

Harrington Putnam German Prizes.  
Awarded in 1970 to John Albert Guislin '72; Donna Marie Chisholm '72; Judith Steere '73; David Malcolm Gilbert '70; Rebecca Marble Talcott '72.

Delta Phi Alpha German Prize.  
Not awarded in 1970.

Russian Book Prize.  
Awarded in 1970 to Jane Elizabeth Currier '73; Warren Kimball Oakes '73; Ellen Elizabeth Jones '72; Judith Ann Schwartz '72; Christine Murphy '72.
Spanish Book Prizes.
Awarded in 1970 to Linda Kay Wackwitz '72; Warren Kimball Oakes '73; Carole Josephine LaRose '73.

Japanese Embassy Book Prizes.
Not awarded in 1970.

Music Colby College Band Award.
Awarded in 1970 to Susan Roberta Costello '70.

Alma Morrissette Award.
Awarded in 1970 to Margaret Adair Frizzell '70.

Glee Club Award.
Awarded in 1970 to David Sweetser Baxter '70.

Symphony Orchestra Awards.
Awarded in 1970 to Donna Marie Chisholm '72; Matthew S. Zweig '72; Ernest Albert Simpson, III '71.

Philosophy Stephen C. Pepper Prize in Philosophy.
Awarded in 1970 to Robert Edward French '70.

Naravane Essay Prize.
Awarded in 1970 to Terry Ann Halbert '70 in the field of art.


Public Speaking Coburn Speaking Prize.
Awarded in 1970 to:
1st Prize: Robert Michael Knight '71.
2nd Prize: Stephen Robert Orlov '71.
3rd Prize: Peter Samuel Glass '70.

Goodwin Public Speaking Prizes.
Awarded in the fall of 1969 to:
1st Prize: Daniel Thomas Blake '71.
2nd Prize: Swift Tarbell, III '72.
3rd Prize: Cheryl Justine Dinneen '70.

Hamlin Speaking Prizes.
Awarded in the fall of 1969 to:
1st Prize: Douglas W. Gorman '73.
Awarded in the fall of 1970 to:

**Julius and Rachel Levine Speaking Prizes.**
Awarded in 1970 to:
1st Prize: ROBERT MICHAEL KNIGHT '71.
2nd Prize: CHERYL JUSTINE DINNEEN '70.
3rd Prize: ROBERT CARL FALSIANI '70.

**Herbert Carlyle Libby Prize.**
Awarded in 1970 to DANIEL THOMAS BLAKE '71.

**Murray Debating Prizes.**
Awarded in 1970 to PETER CLARK BOGLE '70; JAMES ROGER WULFF '70; ROBERT CARL FALSIANI '70; JOHN MICHAEL FOCHS '71.

**American Institute of Chemists Medal.**
Awarded in 1970 to LAUREL ELLEN MANEY '70.

**Chi Epsilon Mu Prize in Chemistry.**
Awarded in 1970 to JUDY BEATRICE GUNDEL '73.

**The Webster Chester Biology Prize.**
Awarded in 1970 to LORRAINE ANN GILL '70.

**Samuel R. Feldman Award for Premedical Studies.**
Awarded in 1970 to WILLIAM BROOKS WARE '70.

**Mark Lederman Prize for Study of Medicine.**
Awarded in 1970 to LAUREL ELLEN MANEY '70.

**Mark Lederman Scholarship in Biology.**
Awarded in 1970 to SANDRA JEAN SMITH '71; PATRICIA ANN THOMAS.

**William A. Rodgers Prize in Physics.**
Awarded in 1970 to SUSAN CATHERINE COOPER '71.

**ACS Undergraduate Award in Analytic Chemistry.**
Awarded in 1970 to MARK STEPHEN FRASER '70.

**Departmental Prizes in Science.** Awarded by each department for academic distinction.
Awarded in 1970 to:

**Biology:** FRANK O. O. APANTAKU '71.
MARGARET MACY DELONG '71.

**Chemistry:** LAUREL ELLEN MANEY '70.
THOMAS D. FRICK '71.
TIMOTHY STEPHEN CAREY '72.
Geology:  
Joseph Edward Peters '70.  
Linda Kay Wackwitz '72.  
Peter Michael Garrity '73.  

Physics:  
Christine Marie Celata '70.  
Seung Kwon Kim '73.  

SOCIAL SCIENCES  
Albion Woodbury Small Prizes in Sociology.  
Awarded in 1970 to Jess Benhabib '71; Charles Kenneth Altholz '71.

ATHLETICS  
J. Seelye Bixler Award in Track.  
Awarded in 1970 to James A. Peterson '71.  
James Brudno Award in Track.  
Awarded in 1970 to Daniel T. Blake '71.  
David W. Dobson Memorial Skiing Award.  
Awarded in 1970 to Michael W. Doud '70.  
Peter Doran Award in Track.  
Paul F. "Ginger" Fraser Award for a non-letterman in football.  
Free Throw Award in Basketball.  
Robert LaFleur Memorial Basketball Award.  
Awarded in 1970 to Peter C. Bogle '70.  
Gilbert F. "Mike" Loeb Soccer Award.  
Awarded in 1969 to Jeffrey M. Lovitz '70.  
Ellsworth W. Millett Hockey Award.  
Awarded in 1970 to Todd H. Smith '70.  
Ellsworth W. Millett Award for outstanding contribution to athletics over four years.  
Awarded in 1970 to Todd H. Smith '70.  
Cy Perkins Track Award.  
Awarded in 1970 to Paul F. Liming '71.  
Edward C. Roundy Memorial Baseball Award.  
Awarded in 1970 to Gary L. Hobbs '70.  
Mike Ryan Track Award.  
Theodore N. Shiro Basketball Award.  
Awarded in 1970 to Peter C. Bogle '70.
Herbert E. Wadsworth Football Award.
Norman E. Walker Hockey Award.
Awarded in 1970 to Bruce W. Haas '72.
Norman E. White Leadership and Sportsmanship Award.
Awarded in 1970 to Andrew M. Hayashi '70.
Honors and Degrees

DEGREES AWARDED AT COMMENCEMENT
SUNDAY, JUNE 7, 1970

BACHELOR OF ARTS

Bruce Alan Abrams, Roslyn, N. Y.
Sari Abul-Jubein, Damascus, Syria
Peter Stephen Adams, Storrs, Conn.
Waneta Jean Adams, Cape Elizabeth, Me.
Martha Irene Alden, Stockton Springs, Me.
Jane Alexander, East Bridgewater, Mass.
Karen Scott Andersen, Cranford, N. J.
Deborah Williams Anderson, Laredo, Tex.
Judyth Gay Anderson, Palo Alto, Calif.
Nancy P. Anthony, Warwick, R. I.
Ann Louise Arbor, Boylston, Mass.
Robin Cheryl Armitage, Braintree, Mass.
Carl Douglas Baer, Rehoboth, Mass.
Haroldine Bailey, Memphis, Tenn.
Helen Norma Barnes, North Conway, N. H.
Alan Richard Barnicoat, Quincy, Mass.
Daniel Jackson Baschkopf, Jericho, N. Y.
Michael Alan Baskin, Newton, Mass.
Peter John Angelo Bassett, Waban, Mass.
David Sweetser Baxter, Newington, Conn.
Christopher John Becrits, Radnor, Pa.
Martha Elizabeth Belden, North Hatfield, Mass.
Wayne Thomas Blanchard, Bow, N. H.
Jean Ann Blatt, Brooklyn, N. Y.
Eileen Louise Boerner, Westfield, N. J.
Edward Joseph Bogh, Portland, Me.
Peter Clark Bogle, Somerset, Mass.
Clare Trowbridge Bonelli, Old Lyme, Conn.
Debora Lynn Booth, Lisbon, N. H.
Elizabeth Ann Borchers, Swanzey Center, N. H.
Allan Kimball Braddock, Pittsford, N. Y.
Benjamin Crowninshield Bradlee, Jr., Cambridge, Mass.
Karen Ann Brandt, Westbrook, Me.
Walter Brower, Princeton, N. J.
Alfred Ellsworth Brown, Jr., North Belgrade, Me.
Elizabeth Conant Brown, Glastonbury, Conn.
Leslie Ann Brown, York Harbor, Me.
Rodney Allen Buck, Montville, N. J.
Clifford Thomas Bunting, Stratford, Conn.
Mona Erline Burnett, Burlington, Vt.
Kathe Sara Cahn, New Haven, Conn.
Caryl Ann Callahan, Irvington, N. J.
Nancy Louisa Campbell, Wayland, Mass.
Alan Lance Cantor, Brookline, Mass.
John Lawrence Caplice, Harwich Port, Mass.
Judith Ann Carlisle, Portsmouth, N. H.
Mary Ely Carroll, Chappaqua, N. Y.
Jeffrey William Carty, Pleasantville, N. Y.
Connie Marie Cebulski, Murray Hill, N. J.
Christine Marie Celata, Dedham, Mass.
Lois M. Chalmers, Nutley, N. J.
Janice Earlene Chapman, Damariscotta, Me.
Joyce Ann Cicatelli, Revere, Mass.
John Andrew Cioffi, Danbury, N. H.
Judith Ann Clark, Old Saybrook, Conn.
Lee Allen Clarke, Augusta, Me.
Steven David Cline, Newton, Mass.
Alain Wood Colby, Amherst, Mass.
Robert Alan Colby, Boston, Mass.
James Joseph Coleman, Jr., Nashua, N. H.
Michael Delano Condax, Moorestown, N. J.
Brian Jay Cooke, New York, N. Y.
Robbin Leuene Costa, Harrington Park, N. J.
Nancy Ellen Costello, Norwood, Mass.
Susan Roberta Costello, Taunton, Mass.
Christine Allison Crandall, Warwick, R. I.
Adrienne Phyllis Creanza, Glen Ellyn, Ill.
Paula Jeanne Crowley, Mattapan, Mass.
Gail Susan Cuaeto, Torrington, Conn.
Frank Milan Danieli, Jr., Norwood, Mass.
Susan Margaret Dann, Lynnfield, Mass.
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Richmond Grey Davis, Lexington, Mass.
Carol Ann Dennison, Falls Church, Va.
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Cheryl Justine Dinneen, Needham, Mass.
Ronald Di Orio, Burgettstown, Pa.
Lee Frances Doggett, Westbrook, Me.
Mildred N. Donahue, Caribou, Me.
Alfred Clement Dostie, Augusta, Me.
Susan Gertrude Doten, Framingham, Mass.
Michael Wallace Doud, Hanover, N. H.
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>State</th>
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<tbody>
<tr>
<td>David Barry Dougan</td>
<td>Vernon</td>
<td>Conn.</td>
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<tr>
<td>Barbara Ann Dumont</td>
<td>Skowhegan</td>
<td>Me.</td>
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<tr>
<td>David William Durkin</td>
<td>Danbury</td>
<td>Conn.</td>
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<tr>
<td>Pamela Raye Dyer</td>
<td>Warwick</td>
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<tr>
<td>Gilbert Linwood Earle</td>
<td>Falmouth</td>
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<tr>
<td>Walter Henry Effron</td>
<td>Poughkeepsie</td>
<td>N.Y.</td>
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<tr>
<td>Peggy Hulda Elkus</td>
<td>Pittsburgh</td>
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<tr>
<td>Sharon Mary Eschenbeck</td>
<td>Highstown</td>
<td>N.J.</td>
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<tr>
<td>Robert Carl Falsani</td>
<td>Berlin</td>
<td>N.H.</td>
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<tr>
<td>Harold Steven Faust</td>
<td>Lawrence</td>
<td>Mass.</td>
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<tr>
<td>Linda Marsh Foss</td>
<td>West Boylston</td>
<td>Mass.</td>
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<tr>
<td>Peter Foss</td>
<td>Wellesley</td>
<td>Mass.</td>
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<tr>
<td>Beverley Edith Foster</td>
<td>Mahwah</td>
<td>N.J.</td>
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<td>Donna Haines Fowler</td>
<td>Montpelier</td>
<td>VI.</td>
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<tr>
<td>Mark Steven Fraser</td>
<td>Nashua</td>
<td>N.H.</td>
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<td>Judith Miriam Freedman</td>
<td>Andover</td>
<td>Mass.</td>
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<td>Margaret Augusta Freeman</td>
<td>Bath</td>
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<td>Margaret Adair Frizzell</td>
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<td>Patricia Gerrior</td>
<td>North Weymouth</td>
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<td>Sangerville</td>
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<td>Peter Gordon Gilfoyle</td>
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<td>Brookline</td>
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<td>Mary Ann Golden</td>
<td>Westport</td>
<td>Conn.</td>
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<td>Marlene Beth Goldman</td>
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<td>Diana Jean Graves</td>
<td>West Hartford</td>
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<td>Old Lyme</td>
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<td>Tel-Aviv</td>
<td>Israel</td>
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<tr>
<td>Elyane June Haggan</td>
<td>Phillips</td>
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<td>Sandra Liisa Haimila</td>
<td>Fitchburg</td>
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<td>Branford</td>
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<td>Washington Crossing</td>
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<td>Walpole</td>
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<td>Susan Kalenderian</td>
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<td>Linda Anne Loring</td>
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<td>Jeffrey Michael Lovitz</td>
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<td>Peter Tappin Lowell</td>
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<td>Martha Craven Luce</td>
<td>Wayland</td>
<td>Mass.</td>
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<td>Paul Edmund Luce</td>
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<td>John Douglas MacLeod</td>
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<td>Russell Boynton MacPherson</td>
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<td>Mass.</td>
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<td>Bryn Mawr</td>
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<td>Sebsibe Man Mamo</td>
<td>Addis Abeba</td>
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<td>Laurel Ellen Maney</td>
<td>Beverly</td>
<td>Mass.</td>
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<tr>
<td>Karen Louise Johnson Mank</td>
<td>Portland</td>
<td>Me.</td>
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David Alan Manning, West Hartford, Conn.
James Lawrence Martin, East Providence, R. I.
Susan Maxfield, Portland, Me.
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John Kennedy McDonald, Marshfield, Mass.
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Raymond Mott, Glastonbury, Conn.
Dwight Lowell Parsons, Akron, Ohio
Peggy Lynn Philson, Elverson, Pa.
Leslie Elmo Stevens, Lewiston, Me.
William Jay Thompson, Stoughton, Mass.
Richard Wallace Upton, Plainfield, N. J.
Susan Jean Van Beneden, Cleveland Heights, Ohio

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George Linwood Cross, Jr., South Portland, Me.

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Sandra High Walters, Nashville, Tenn.
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As of the Class of 1949
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As of the Class of 1939
Marion Crawford Hutchinson, Beaver, Pa.

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Christine Marie Celata
Adrienne Phyllis Greanza
Robert Edward French
Jeffrey Alan Parness
Maureen Ann Vaughan

Cum Laude
Martha Elizabeth Belden
Elizabeth Ann Borchers
Caryl Ann Callahan
Susan Roberta Costello
Deborah Ann Fitton
Terry Ann Halbert
Barbara I. Hamaluk
Kathryn Carolyn Hill
Laurel Ellen Maney
Donna Swain Mason
Martha Carson McCall
Judith Ann McLeish
Anne Virginia Peterson
Stuart Rothenberg
Leslie Cheryl Anderson Scherer
Leslie Ann Seaman
Sarah Eileen Vose

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Art
Norma Fay Rivero
Earle Grey Shettleworth, Jr.
Biology
Alfred Ellsworth Brown, Jr.
David Barry Dougan

Business Administration
Robert Mark Kaufman
Martin Thomas Kolonel

Chemistry
Laurel Ellen Maney
Michael Poling

Classics
Alison Jane Harvey

Classics-English
Sarah Eileen Vose

East Asian Studies
Deborah Ann Fitton

Economics
Adrienne Phyllis Creanza
Jacquelyn Towle Dingwall
Leslie Anderson Scherer

French
Donna Swain Mason
Martha Carson McCall

German
Kathryn Carolyn Hill

Government
Martha Elizabeth Belden
Cheryl Justine Dinneen
Mary Ann Golden
Barbara I. Hamaluk
Jeffrey Alan Parness
Stuart Rothenberg
Maureen Ann Vaughan
Ronna Margaret Winer

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Bruce Alan Abrams
Peter Clark Bogle
Caryl Ann Callahan
Deborah Ann Fitton
Richard Irving Hunt, Jr.

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Mary Bernadette Langevin
Carol Lewis

Music
Margaret Adair Frizzell
Charles Wilson Piper

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Robert Edward French
Andrej Thomas Starkis

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Cathy Lynn Pagano Shippee

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Christine Marie Celata

Psychology
Elizabeth Ann Borchers
Pamela Raye Dyer
Constance M. Kratz
Deborah Lee Thurlow

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Elected in Junior Year
Carol Lewis

Elected in Senior Year
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Elizabeth Ann Borchers
Elizabeth Conant Brown
Caryl Ann Callahan
Christine Marie Celata
Susan Roberta Costello
Adrienne Phyllis Creanza
Deborah Ann Fitton
Robert Edward French
Terry Ann Halbert
Barbara I. Hamaluk
Laurel Ellman Maney
Martha Carson McCall
Judith Ann McLeish
Jeffrey Alan Parness
Leslie Ann Seaman
Leslie Cheryl Anderson Scherer
Maureen Ann Vaughan
Sarah Eileen Vose

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Gerald Richard Bergstrom, Seaford, Del.
Wayne Sumner Champeon, Dover-Foxcroft, Me.
Judith Smith Crook, Southfield, Mich.
Henrietta Willig Dold, Oyster Bay, N. Y.
Silas Bailey Dunklee, Amherst, Mass.
Rosalie Boswell Ehart, Coral Gables, Fla.
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Gail Woods Smith, Waterville, Me.
John M. Wortman, Dexter, Me.

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John Fischetti
Doctor of Fine Arts

Roger Howell, Jr.
Doctor of Laws

Arthur Kornberg
Doctor of Science

Denise Levertov
Doctor of Letters

George Stanley McGovern
Doctor of Laws

Krister Stendahl
Doctor of Divinity

Henry Smith Wingate
Doctor of Laws

SENIOR SCHOLARS

Caryl Ann Callahan
A Translation of the Kabuki Play "Osome Hisamatsu Ukina No Yomiuri" by Tsuruya Nanboku IV (1813)

Kathryn Patricia Hayes
The Relationships between Impressionist Painting and Impressionist Fiction

Russell Yeanian Savage
Stimmen der Romantik (Voices of the Romantic)

Earle Grey Shettleworth, Jr.
The Architecture of Portland, Maine, 1830 to 1870

Donna Lynn Webber
A Dialyzable Phospholipid Renin Inhibitor

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3530 North 32nd Street
Aldersgate Methodist Church

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18524 Cottonwood
Freemont 94536
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4882 Richmond Avenue
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24285 Summerhill Avenue
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1690 Valley View
Palos Verdes Peninsula 90274
Mr. Fenton R. Mitchell '51
Mrs. Fenton R. Mitchell
(Mary Leighton '51)
31107 Marne Drive

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1912 Trent
Denver 80218
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# Index

**About Colby**, 2  
Absence, 26, 46  
Absence from Examinations, 25  
Academic Program, 14  
Academic Standing, 26  
Accounting, 75  
Accreditation, 5  
Activities, 41  
Activities Fee, 34, 36  
Administrative Science, 75  
Administrative Science-Mathematics Major, 58  
Administrative Staff, 170  
Admission, 29  
Admission Deposit, 34, 35  
Admission Interviewers, 191  
Admission Procedure, 29  
Admission Schedule, 30  
Adult Education  
(See Special Programs)  
Advanced Payments, 34, 35  
Advanced Standing, 31  
Aerospace Studies, 53, 69, 76  
AFROTC (See Aerospace)  
Afro-American History, 113, 116, 117  
American Studies Major, 57  
Anatomy, 81  
Anthropology, 139  
Applications, Admission, 29  
Arboretum, 12  
Area Requirements, 17  
Art, 43, 54, 77  
Arts, Preparation for, 145  
Astronomy, 68, 80  
Athletics, 69, 129, 182  
Attendance, 46  
Auditing Courses, 24  
Automobiles, 48  
Awards, 175  

<table>
<thead>
<tr>
<th>Course/Program/Department</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Key, 175</td>
<td></td>
</tr>
<tr>
<td>Board, 54, 35</td>
<td></td>
</tr>
<tr>
<td>Botany, 82</td>
<td></td>
</tr>
<tr>
<td>Breakage Fees, 37</td>
<td></td>
</tr>
<tr>
<td>Buildings, 11</td>
<td></td>
</tr>
<tr>
<td>Business Administration</td>
<td></td>
</tr>
<tr>
<td>(See Administrative Science)</td>
<td></td>
</tr>
<tr>
<td>Business, Preparation for, 147</td>
<td></td>
</tr>
<tr>
<td>Calculus, 120, 121, 122</td>
<td></td>
</tr>
<tr>
<td>Calendar, inside back cover</td>
<td></td>
</tr>
<tr>
<td>Calendar of Payments, 34</td>
<td></td>
</tr>
<tr>
<td>Campus, 11</td>
<td></td>
</tr>
<tr>
<td>Cap and Gown, 175</td>
<td></td>
</tr>
<tr>
<td>Career Planning, 2, 145</td>
<td></td>
</tr>
<tr>
<td>CEEB Tests, 31</td>
<td></td>
</tr>
<tr>
<td>Center for Coordinated Studies, 21</td>
<td></td>
</tr>
<tr>
<td>Changes of Course, 24</td>
<td></td>
</tr>
<tr>
<td>Chapel, 11, 41</td>
<td></td>
</tr>
<tr>
<td>Chemistry, 65, 84</td>
<td></td>
</tr>
<tr>
<td>Chemistry Breakage Fee, 37</td>
<td></td>
</tr>
<tr>
<td>Choir, 41, 42</td>
<td></td>
</tr>
<tr>
<td>Class Standing, 26</td>
<td></td>
</tr>
<tr>
<td>Classics, 54, 87</td>
<td></td>
</tr>
<tr>
<td>Classics-English Major, 54</td>
<td></td>
</tr>
<tr>
<td>Classics-Philosophy Major, 54</td>
<td></td>
</tr>
<tr>
<td>Colby History, 6</td>
<td></td>
</tr>
<tr>
<td>Colby Library Associates, 13</td>
<td></td>
</tr>
<tr>
<td>College Board Tests, 31</td>
<td></td>
</tr>
<tr>
<td>Commencement, June 1970, 184</td>
<td></td>
</tr>
<tr>
<td>Committees, College, 166</td>
<td></td>
</tr>
<tr>
<td>Committees, Trustee, 153</td>
<td></td>
</tr>
<tr>
<td>Comparative Literature, 87</td>
<td></td>
</tr>
<tr>
<td>Computer Science, 64, 88</td>
<td></td>
</tr>
<tr>
<td>Concentration of Studies, 19</td>
<td></td>
</tr>
<tr>
<td>Concerts, 42</td>
<td></td>
</tr>
<tr>
<td>Conduct, 47</td>
<td></td>
</tr>
<tr>
<td>Corporation, 151</td>
<td></td>
</tr>
<tr>
<td>Courses:</td>
<td></td>
</tr>
<tr>
<td>Auditing, 24</td>
<td></td>
</tr>
<tr>
<td>Changes of, 24</td>
<td></td>
</tr>
<tr>
<td>Dropping of, 27</td>
<td></td>
</tr>
<tr>
<td>E, 26, 73</td>
<td></td>
</tr>
<tr>
<td>Election of, 24</td>
<td></td>
</tr>
<tr>
<td>Extra, 24, 37</td>
<td></td>
</tr>
<tr>
<td>Key to Numbering, 73</td>
<td></td>
</tr>
<tr>
<td>Repeated, 26, 27</td>
<td></td>
</tr>
<tr>
<td>Year, 26, 73, 74</td>
<td></td>
</tr>
<tr>
<td>Courses of Study, 73</td>
<td></td>
</tr>
<tr>
<td>Credit, 27, 28</td>
<td></td>
</tr>
<tr>
<td>Dana Scholars, 175, 176, 189</td>
<td></td>
</tr>
<tr>
<td>Dean's List, 175</td>
<td></td>
</tr>
<tr>
<td>Debating, 44, 93</td>
<td></td>
</tr>
<tr>
<td>Degree Requirements, 15</td>
<td></td>
</tr>
<tr>
<td>Degrees, June 1970, 184</td>
<td></td>
</tr>
<tr>
<td>Dentistry, Preparation for, 145</td>
<td></td>
</tr>
<tr>
<td>Departments, 54</td>
<td></td>
</tr>
<tr>
<td>Deposits Required, 34, 35, 36, 37</td>
<td></td>
</tr>
<tr>
<td>Developmental Reading, 33</td>
<td></td>
</tr>
<tr>
<td>Dietary Staff, 173</td>
<td></td>
</tr>
<tr>
<td>Dishonesty, 25</td>
<td></td>
</tr>
<tr>
<td>Distinction in the Majors, 175, 187</td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements, 16</td>
<td></td>
</tr>
<tr>
<td>Division of Aerospace Studies, 14, 53, 69</td>
<td></td>
</tr>
<tr>
<td>Division of Humanities, 53, 54</td>
<td></td>
</tr>
<tr>
<td>Division of Natural Sciences, 53, 63</td>
<td></td>
</tr>
<tr>
<td>Division of Physical Education and Athletics, 53, 69</td>
<td></td>
</tr>
<tr>
<td>Division of Social Sciences, 53, 57</td>
<td></td>
</tr>
<tr>
<td>Divisions of Instruction, 14</td>
<td></td>
</tr>
<tr>
<td>Dormitories, 11</td>
<td></td>
</tr>
<tr>
<td>Dramatics, 44</td>
<td></td>
</tr>
<tr>
<td>Dropping Courses, 27</td>
<td></td>
</tr>
<tr>
<td>Drugs, Regulations, 48</td>
<td></td>
</tr>
<tr>
<td>E Courses, 26, 73</td>
<td></td>
</tr>
<tr>
<td>Early Decision, 30</td>
<td></td>
</tr>
<tr>
<td>Earth Science Option,</td>
<td></td>
</tr>
<tr>
<td>Geology Major, 67</td>
<td></td>
</tr>
<tr>
<td>East Asian Studies, 88</td>
<td></td>
</tr>
<tr>
<td>East Asian Studies Major, 58</td>
<td></td>
</tr>
<tr>
<td>Echo, 45</td>
<td></td>
</tr>
<tr>
<td>Ecology, 81, 82, 83, 84</td>
<td></td>
</tr>
<tr>
<td>Economics, 59, 89</td>
<td></td>
</tr>
<tr>
<td>Economics-Mathematics Major, 58</td>
<td></td>
</tr>
</tbody>
</table>
Education, 60, 91
Edwin Arlington Robinson Memorial Room, 13
Election of Courses, 24
Embryology, 81, 83
Emeriti, 155
Employment, 39
Endowment, 5
Engineering, Preparation for, 146
English, 55, 92
English Composition Requirements, 16
English Literature Requirements, 16, 55
Enrollment, 5, 174
Environmental Studies Major, 63
Examinations, 25
Exchange Program, 22
Exemption by Examination, 18
Exhibitions, 43
Extension Courses (See Special Programs)
Extra Courses, 24, 37
Extracurricular Activities, 41

Faculty, 155
Fees, 34
Fellows of Colby College, 152
Film Societies, 44
Finances, 34
Financial Aid, 39
Fisk University Exchange Program, 22
Foreign Language Placement Tests, 33
Foreign Language Requirements, 16
Foreign Languages, 56, 123
Foreign Students, 16, 23
Foreign Study, 22
Fraternities, 37, 44
French, 56, 98
Freshman Orientation, 33
Freshman Program, 14

Interviews for Admission, 30
Intramural Sports, 30
Italian, 117

James Augustine Healy Collection, 13
January Program, 9, 15, 20
Japanese, 118
Jobs, Student, 39
Junior Year Abroad, 22, 28

Language, Cooperative Undergraduate Program (Princeton University), 56
Language Placement, 33
Language Requirements, 16
Late Registration, 23
Latin, 55, 119
Law, Preparation for, 145
Lectures, 41
Library, 13
Liquor, Regulations, 48
Loans, 40

Maintenance Staff, 173
Major, 9, 19
Marketing, 75
Marks, 26
Married Students, 49

Mathematics, 67, 120
Mathematics Placement Test, 33
Medical Staff, 173
Medicine, Preparation for, 145
Meteorology, 103
Microbiology, 83
Mineralogy, 103
Modern Foreign Languages, 56, 123
Money and Banking, 89
Music, 42, 57, 123
Music Associates, 42
Musical Programs, 42

Natural Sciences, 53, 63
Natural Sciences Requirements, 17

Freshman Scholarships, 39
Friends of Art, 43

General Fee, 34, 36
General Information, 5
General Regulations, 46
Genetics, 80, 84
Geographical Distribution of Students, 174
Geology, 67, 101
Geology-Biology Major, 64
Geology-Chemistry Major, 64
German, 56, 104
Glee Club, 42, 43
Government, 61, 106
Government Service, Preparation for, 145
Grades, 26
Graduate Study, 145
Graduation Requirements, 15
Greek, 54, 110

Health Certificate, for Admission, 32
Health Service, 30
Histology, 83
History, 61, 111
History, Ancient, 77
History of Colby College, 6
Honorary Degrees, 189
Honors, 175, 187
Honors Program in English Literature, 55
Hour Examinations, 25
Housing, 11, 35, 36, 49
Humanities, 53, 54
Humanities Requirements, 17

Incomplete Work, 27
Independent Study, 20
Infirmary, 12, 36
Inquiries, 2
Insurance, 36
Interdepartmental Majors, 19, 54, 57, 63
International Relations, 108
Nonmatriculated Students, 32
Oceanography, 101
Officers of the College, 170
Officers of the Corporation, 151
Oracle, 45
Orchestra, 42, 43
Organizations, 45
Orientation Program, 33
Paleontology, 102
Parents' Confidential Statement, 39
Payment of Bills, 23, 34, 37
Perkins Arboretum, 12
Phi Beta Kappa, 175, 188
Philosophy, 62, 126
Philosophy-Mathematics
Major, 58
Philosophy-Religion Major, 62
Physical Education, 18, 53, 69, 129
Physics, 68, 129
Physics-Mathematics
Major, 64
Physiology, 82
Placement, 2, 145
Placement in Foreign
Languages, 33
Placement in Mathematics, 33
Point Scale in Major, 19
Points, Quality, 16
Political Theory, 107
Portuguese, 131
Presidents, 8
Princeton University
(Cooperative Program), 56
Prizes, 176
Professional Schools, 145
Programs of Study, 14
Psychology, 62, 131
Psychology-Mathematics
Major, 59
Quizzes, 25
Reading Period, 20
Reading Tests, 33
Readmission, 28
Refunds, 38
Registration, 23
Regulations, 46
Religion, 41, 62, 134
Religious Activities, 41
Repeated Courses, 26, 27
Residence Requirements, 18
Residence Staff, 173
Robert College Exchange
Program, 22
Rochester, University of
(Cooperative Program), 146
Room Deposit, 35
Room Fees, 34, 35
Room Reservations, 36
Russian, 56, 136
SAT Scores, 31
Scholarships, 39
Scholastic Aptitude Tests, 31
Sciences, Preparation for, 145
Sciences Requirements, 17
Secretaries and Assistants, 171
Semester Bill, 34, 37
Semester Examinations, 25
Senior Scholars, 21, 189
Ski Area, 12
Social Rules, 46
Social Science, 138
Social Sciences, 53, 57
Social Sciences Requirements, 17
Social Thinkers, 138
Sociology, 63, 138
Sororities, 44
Spanish, 57, 142
Special Programs, 71
Speech, 44, 92, 93, 97
Staff, 170
Standing, Academic, 26
Statistics, 121, 122
Stratigraphy, 103
Student Exchange, 22
Student Government, 45
Student Handbook, 46
Student Organizations, 45
Summer School, 28
Teaching, Preparation for, 146
Theology, Preparation for, 146
Traffic Regulations, 48
Transcripts, 37
Transfer, 32
Transfer Students'
Requirements, 16, 28, 32
Transferred Credits, 28
Trustees, 151
Tuition, 23, 34, 35
Veterans, 32
Walker Organ, 11
Warnings, 26
Withdrawal from College, 27, 38
Withdrawal from Course, 27
Work-Study Program, 39
Year Courses, 26, 73, 74
Zoology, 82
College Calendar 1971-1972

Friday, September 10
Monday, September 13
Tuesday, September 14
Saturday, October 9
Saturday, October 30
Saturday, November 6
Friday, November 19, 5:00 P.M.
to Monday, November 29, 8:00 A.M.
Saturday, December 11
Monday, December 13 through
Saturday, December 18
Sunday, December 19
Monday, January 3 through
Saturday, January 29
Monday, February 7
Tuesday, February 8
Friday, March 24, 10:00 A.M. to
Monday, April 3, 8:00 A.M.
Friday, May 5 through
Thursday, May 18
Friday, May 19
Monday, May 22 through
Wednesday, May 31
Sunday, June 4

Freshman program begins
Upper-class registration
First classes
Upperclassmen Parents Weekend (classes meet)
Freshmen Parents Weekend (classes meet)
Homecoming Day; all classes omitted
Thanksgiving recess
Last classes of first semester
Semester examinations
First semester makeup examinations
January Program
Registration for second semester
First classes of second semester
Spring recess
Reading period for 300 & 400 courses
Last classes for 100 & 200 courses
Final examinations
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.
<table>
<thead>
<tr>
<th>1970</th>
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<tr>
<td><strong>JULY</strong></td>
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