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COLBY COLLEGE BULLETIN

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Catalogue Issue May 1971



COLBY COLLEGE BULLETIN

WATERVILLE, MAINE • FOUNDED IN 1813 • ANNUAL CATALOGUE ISSUE • MAY 1971

172

Inquiries to the college should be directed as follows:

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ADULT EDUCATION AND SUMMER PROGRAMS	PAUL D. WALKER, JR., <i>Director of Special Programs</i>
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VETERANS' AFFAIRS	GEORGE L. COLEMAN, <i>Registrar</i>

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
Telephone: (207) 873-1131

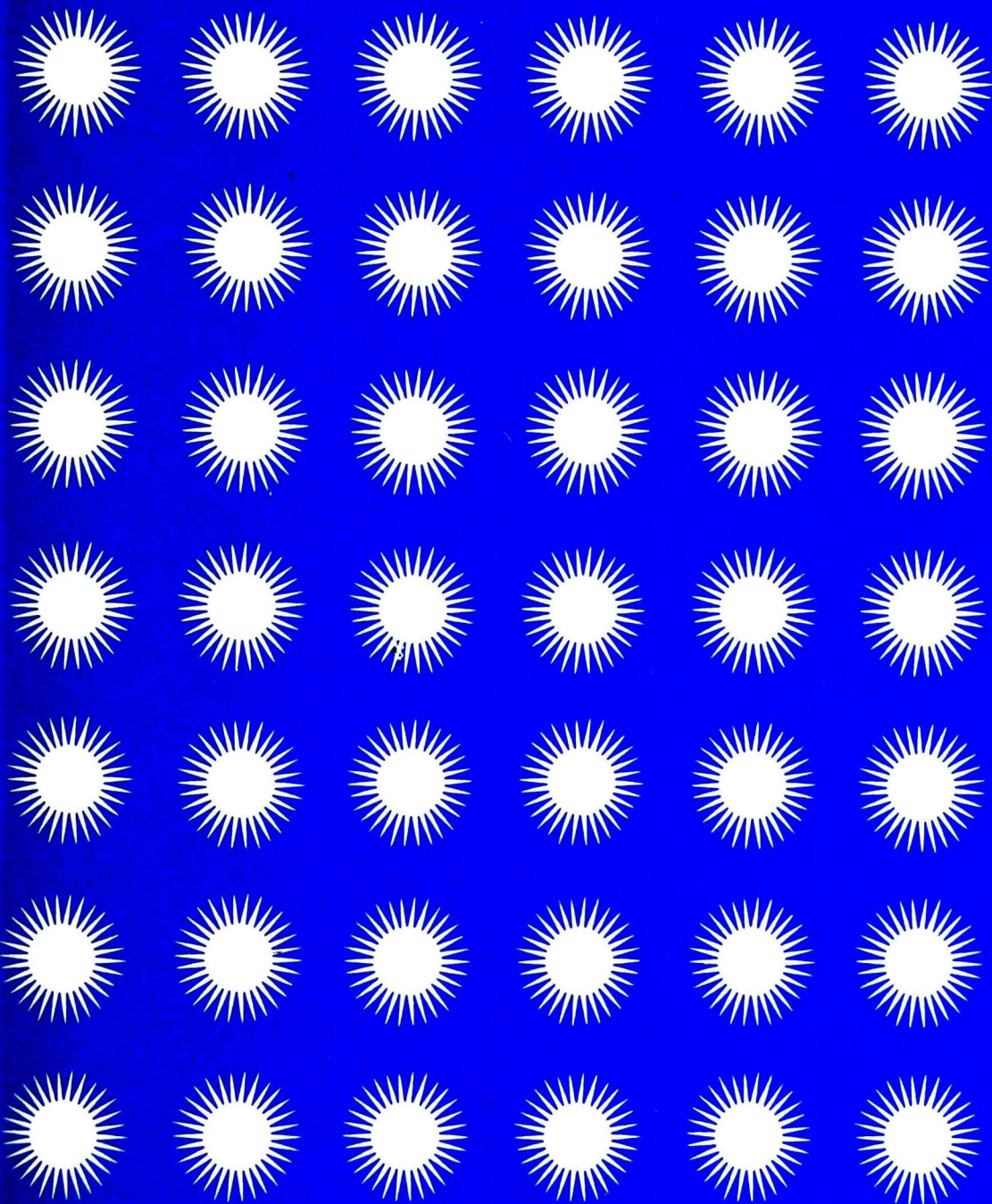
SERIES 70

NUMBER 1

MAY 1971

The COLBY COLLEGE BULLETIN is published five times yearly, in May, June, September, December, and March.

Entered as second-class matter at the Post Office at Waterville, Maine, under the Act of August 24, 1912. Acceptance for mailing at special rates of postage provided for in Section 1103, Act of October 3, 1917, authorized March 20, 1919.



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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	Waterville, Kennebec County, Maine; population 19,000. Industries: textiles, paper, molded woodpulp products, shirts, plastics. Bus service: Greyhound Lines. Airport served by Executive Air Lines. On U.S. Interstate Highway 95, connecting with Maine Turnpike at Augusta.

Colby Yesterday and Today

HISTORY OF COLBY COLLEGE

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.

PRESIDENTS

1822-1833	JEREMIAH CHAPLIN
1833-1836	RUFUS BABCOCK
1836-1839	ROBERT EVERETT PATTISON
1841-1843	ELIPHAZ FAY
1843-1853	DAVID NEWTON SHELDON
1854-1857	ROBERT EVERETT PATTISON
1857-1873	JAMES TIFT CHAMPLIN
1873-1882	HENRY EPHRAIM ROBINS
1882-1889	GEORGE DANA BOARDMAN PEPPER
1889-1892	ALBION WOODBURY SMALL
1892-1895	BENIAH LONGLEY WHITMAN
1896-1901	NATHANIEL BUTLER, JR.
1901-1908	CHARLES LINCOLN WHITE
1908-1927	ARTHUR JEREMIAH ROBERTS
1929-1942	FRANKLIN WINSLOW JOHNSON
1942-1960	JULIUS SEELYE BIXLER
1960-	ROBERT EDWARD LEE STRIDER, II

COLBY TODAY

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-

lropolis 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), Alford 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.

GRADUATION REQUIREMENTS¹

QUANTITY

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.

A minimum of 105 credit hours and eight semesters of residence², 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.

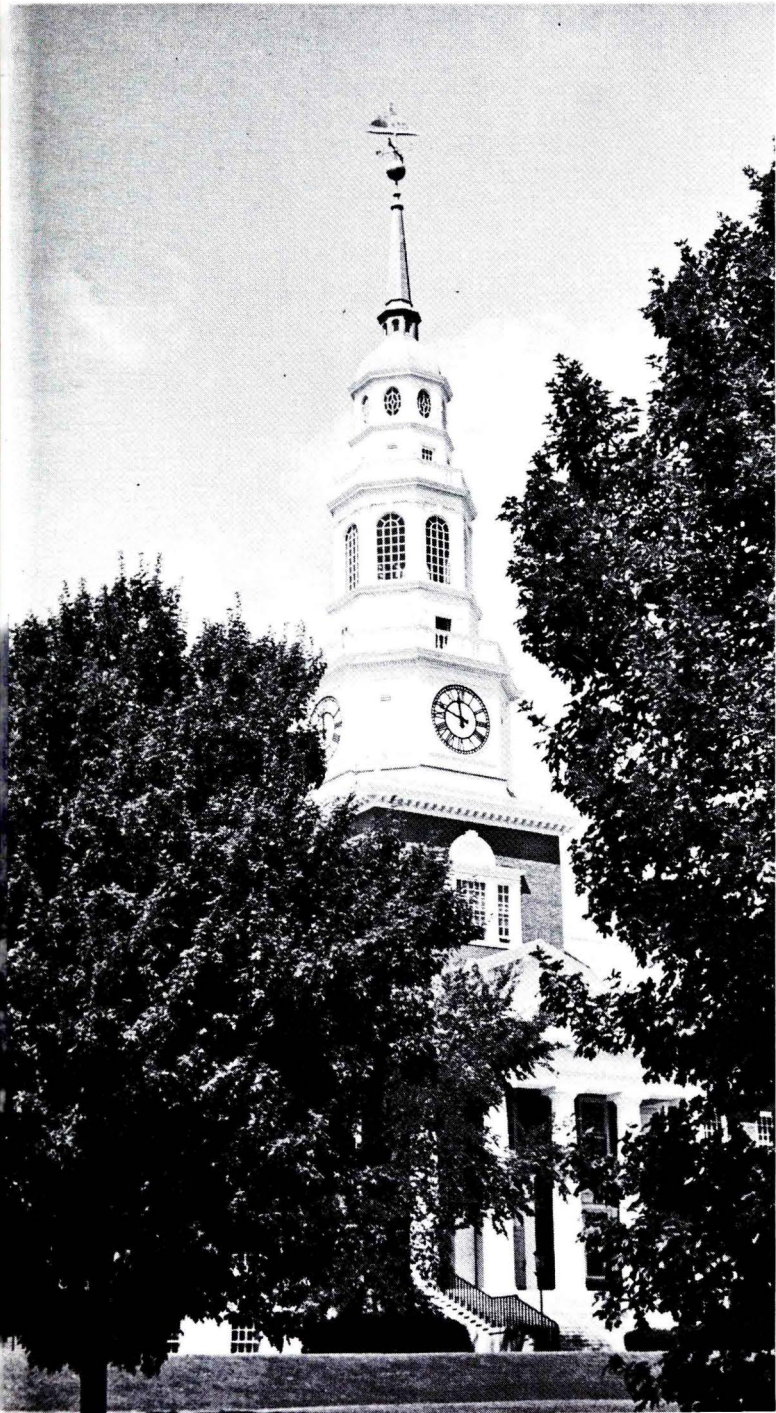
B. *Foreign Language*: A basic knowledge of one ancient or modern foreign language. This requirement may be met in one of four ways:

(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.

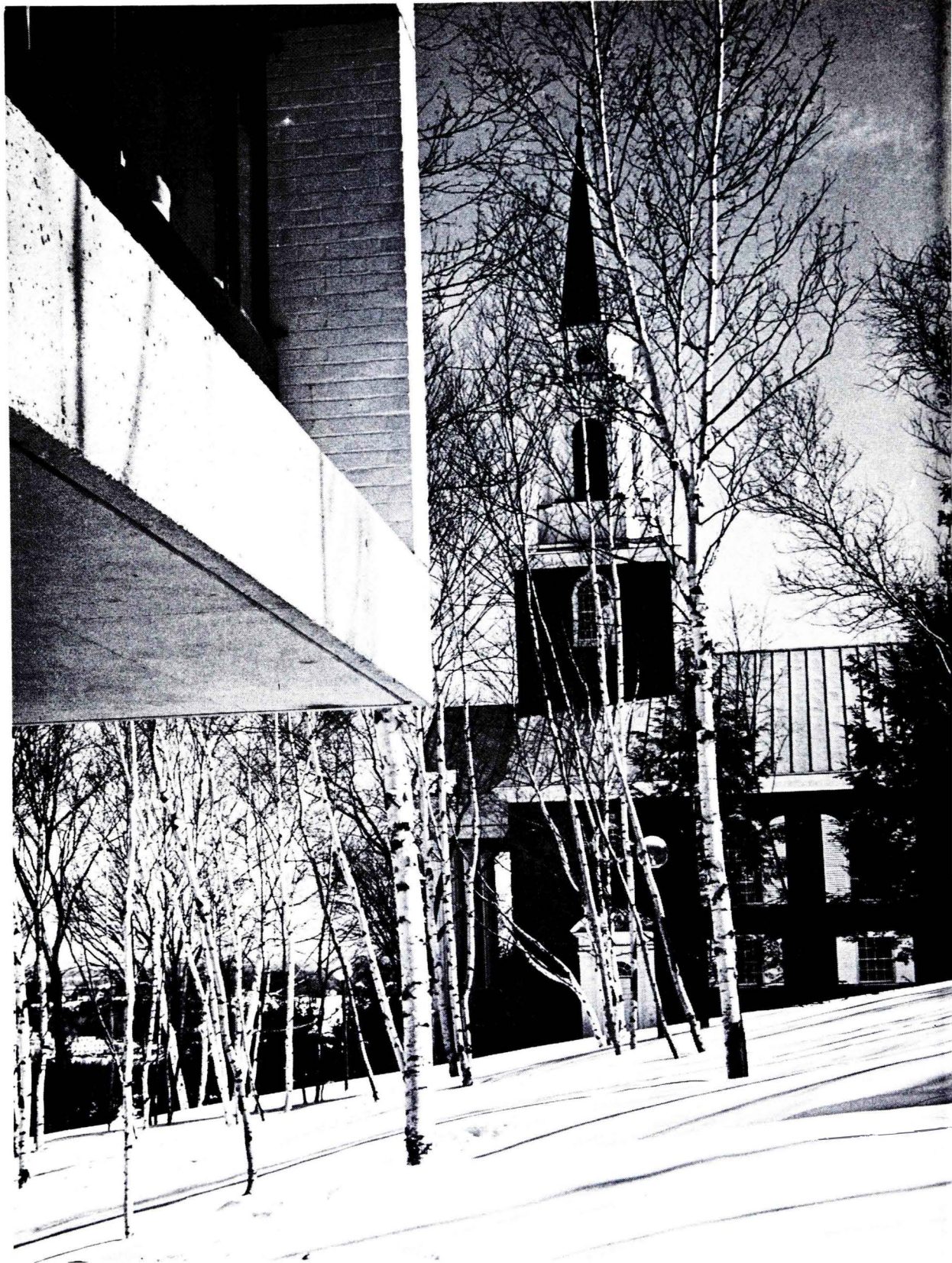
(2) Successful completion of three credit hours in courses numbered above 113 in an ancient or modern foreign language offered at Colby College.

(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.



Miller Library



Lorimer Chapel from Sturtevant

Award-winning dormitory complex



Championship meet, Fieldhouse



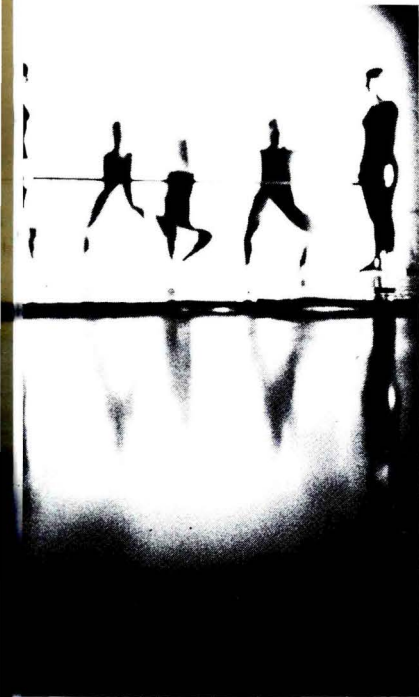


Art Museum,



Runnals Union

tern dance



tery



Montague Sculpture Court



Bixler Art and Music Center

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

- PHYSICAL EDUCATION** Completion of freshman and sophomore physical education requirements is required for graduation. The sophomore requirement may be waived by the Department of Physical Education.
- RESIDENCE** Candidates for the degree 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.
- EXEMPTION BY EXAMINATION** 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.
- OPTION FOR CERTAIN STUDENTS** A student returning to college after an absence must meet any new requirements for graduation if he still needs more than one-half of the total number of credit hours required for graduation. If he still needs not more than one-half of the total number he may meet either the new requirement or that in effect when he first enrolled.

MAJOR

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

Approved interdepartmental majors are offered in the following areas:

Administrative Science —
Mathematics
American Studies

Classics — English
Classics — Philosophy
East Asian Studies

Economics – Mathematics
 Environmental Studies
 Geology – Biology
 Geology – Chemistry

Philosophy – Mathematics
 Philosophy – Religion
 Physics – Mathematics
 Psychology – Mathematics

READING PERIOD

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

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

JANUARY PROGRAM OF INDEPENDENT STUDY

In the academic year 1961-62 Colby introduced an educational experiment with its *January Program of Independent Study*. 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.

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.

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

mark of *F* and refer the case to the dean of students for any further action.

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.

WITHDRAWAL

Voluntary withdrawal from the college may be effected officially by filing a *notice of withdrawal* properly approved by the treasurer and the dean of students; the official form may be obtained from the dean. The date on the approved *notice of withdrawal* is the basis for computing any refunds which may be due. A student who leaves the college and

neglects to effect official withdrawal until later cannot collect a refund for the elapsed interval.

TRANSFERRED CREDITS

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

ADMISSION PROCEDURE

(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 Deposit ¹	15
	General Fee ²	160
		\$3,825

CALENDAR OF PAYMENTS 1971-1972	<i>Upon acceptance for admission</i>	Admission deposit — freshmen	\$ 100
	<i>July 31</i>	Attendance deposit — upperclassmen	\$ 200
FIRST SEMESTER	<i>On or before August 31</i>	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 ³ (Note: Admission, attendance and room deposits as paid, may be deducted from this first semester payment.)
	<i>November 30</i>	First semester bill (following pages)	
SECOND SEMESTER	<i>On or before January 20</i>	One-half of annual student charges for tuition, board and room	\$1,825 ⁴
	<i>March 31</i>	Second semester bill	
	<i>April 15</i>	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 \$325 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**

No formal bills are issued for the following items:

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-

cific 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

RELIGION

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.

LECTURES

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.

Among visiting speakers in 1970-71 were Kenneth Auchincloss, Victor Christ-Janer, William Arrowsmith, Maxine Kumin, Ross A. MacFarland, William C. Greenough, Frank Graham, Jr., Edward Wright, Jr., Lester C. Thurow, Alan F. Gutmacher, W. H. Auden, Gordon Bloom, Charles S. Davidson, Harold Margulies, James Dyck, Julian Bond, and Jack Lenor Larson.

MUSIC

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.

ART

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 *Stop 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.

STUDENT ORGANIZATIONS

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 no 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.

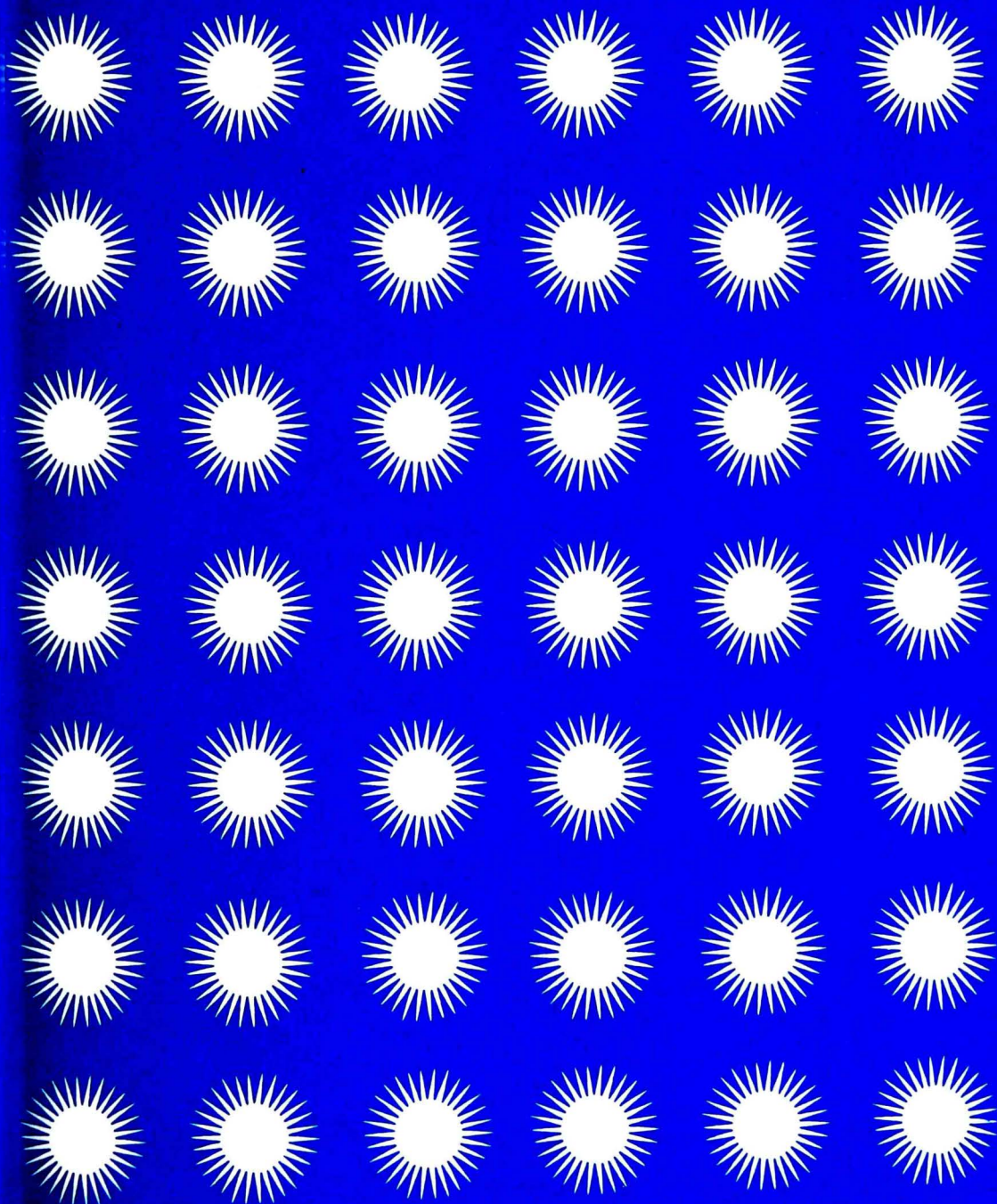
Details of rules relating to the use of motor vehicles may be found in the *Student Handbook*.

MARRIED 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



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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.

ART

Chairman, PROFESSOR CARPENTER

Professor Carpenter; Associate Professor Miller; Assistant Professors Meader¹, 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.

CLASSICS

Chairman, PROFESSOR HOWARD

Professor Howard; Associate Professors D. Koonce² 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.

¹On leave, 1970-71.

²On leave, second semester, 1970-71.

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 Comparetti¹, Benbow, Cary, and Sutherland; Associate Professors MacKay, Suss², Witham, Curran, and Brancaccio; Assistant Professors H. Koonce³, 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.

²On leave, 1970-71.

³On leave, second semester, 1970-71.

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

MODERN FOREIGN LANGUAGES

Acting Chairman, PROFESSOR HOLLAND

Professors Kellenberger, Bundy¹, and Holland; Associate Professors G. Smith², P. Bither³, 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. Cassol³, Mrs. Kueter⁴.

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.

²On leave, second semester, 1970-71.

³Second semester, 1970-71.

⁴Part-time, second semester, 1970-71.

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.

MUSIC

Chairman, PROFESSOR E. COMPARETTI

*Professors E. Comparetti and Ré; Assistant Professors Heinrich and Yusti; Mrs. Reuman*¹.

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.

ADMINISTRATIVE SCIENCE

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.

ECONOMICS

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-

¹On leave, 1970-71.

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.

EDUCATION

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).

442. 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 Mavrinc, Gillum, Raymond, and Weissberg; Associate Professors Berschneider, Bridgman, and Foner; Assistant Professors Elison², Pan, Ziony, Menge, and Kany¹; Mr. Critchfield³, Mrs. Mavrinc¹, Mr. Milenky¹, and Mr. Farr⁴.

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.

²On leave, second semester 1970-71.

³Second semester 1970-71.

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. McGowan².

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. DeHart¹, 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.

¹On leave, second semester, 1970-71.

²Part-time.

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

SOCIOLOGY

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.

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 381.

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 election of languages and other required courses in the freshman and sophomore years.

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

Requirements for the major in physics-mathematics

(Advisers: Mr. Bancroft and Mr. Combella)

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. Gilbert¹.

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.

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-

¹Part-time, first semester, 1970-71.

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.

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.

MATHEMATICS

Chairman, ASSOCIATE PROFESSOR L. ZUKOWSKI

Professor Combellack; Associate Professor L. Zukowski; Assistant Professors Fuglister, Hayslett¹, 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.

¹On leave, 1970-71.

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.

¹On leave, 1970-71.

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.

Division of Physical Education and Athletics

Chairman, ASSOCIATE PROFESSOR WINKIN

Associate Professors Winkin and Mrs. M. Bither¹; Assistant Professors Gunn², McGee, Covell, Scholz, and Nelson; Mr. Green, Mrs. Hodsdon, Mr. Hodges, Mr. Schulten, Miss Mandeville, Mr. Whitmore, and Mrs. Hodges³.

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

¹On leave, second semester, 1970-71.

²On leave, 1970-71.

³Second semester, 1970-71.

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 Alford 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.

**PHYSICAL EDUCATION FOR
WOMEN**

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.

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

221c, 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.*

[413d]
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

†[252]
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.*

254
ROMAN HISTORY
MR. HOWARD

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

*352
PROBLEMS IN
GREEK HISTORY
MRS. KOONCE

Athens in the fifth century.

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

†[353]
PROBLEMS IN GREEK HISTORY

Greece in the fourth century.

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

Art

121, 122
INTRODUCTION TO ART
STAFF

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.*

141, 142
INTRODUCTION TO
DRAWING
MISS MATTHEWS

Exploration of graphic media while learning basic representational and expressive means. Much emphasis is placed on out-of-class drawing. *Three credit hours.*

211d
INTRODUCTION TO PAINTING
PROBLEMS
MR. MEADER

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. *Three credit hours.*

221, 222
PRINCIPLES OF DESIGN
MR. MEADER

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. *Three credit hours.*

252
ARCHITECTURE
MR. MILLER

Architectural styles with emphasis on modern developments. Course work includes problems in architectural design and the making of models of historical buildings. *Three credit hours.*

261, 262
BEGINNING SCULPTURE
MISS MATTHEWS

The emphasis is on basic three-dimensional design and the exploration of various sculptural techniques, both additive and subtractive. *Three credit hours.*

271
AMERICAN ART
MR. MILLER

Architecture, sculpture and painting from colonial times to the present. Lectures and problems make use of the original material in the Colby collections. *Three credit hours.*

311
THE ART OF ANCIENT GREECE
AND ROME
MR. MILLER

Architecture, sculpture, and painting from the Archaic period into Roman times.
Prerequisites: Art 121 or permission of the instructor. *Three credit hours.*

†[312]
ART OF THE RENAISSANCE
IN ITALY

The art of the fifteenth and sixteenth centuries in Italy, with emphasis on the major painters and sculptors.
Prerequisite: Art 121, 122 or permission of the instructor. *Three credit hours.*

-
- *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.*

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.*

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.

-
- 135
PLANT BIOLOGY
MR. FOWLES
- An introduction to the principles of biology as illustrated by plants, with emphasis on structure, activities, and reproduction of green plants. *Three credit hours.*
-
- 136
UNDERSTANDING EVOLUTION
MR. FOWLES
- A study of the scope, significance, and mechanisms of evolution. *Three credit hours.*
-
- 271
INTRODUCTION TO ECOLOGY;
INTRODUCTION TO PLANTS
MR. GILBERT AND MR. FOWLES
- Part I: Introduction to ecological principles; structure of natural communities, energy-flow, and nutrient-cycling within ecosystems; population dynamics. Field trips will be taken to selected sites representative of terrestrial, fresh-water, and marine habitats. Part II: Introductory survey of the plant kingdom, including life cycles and evolutionary relationships; physiology, morphology, and anatomy of the higher plants. Lecture and laboratory.
Prerequisite: Biology 111 or equivalent. *Four credit hours.*
-
- 272
CELL BIOLOGY
STAFF
- Cellular and associated molecular biology. Laboratory will involve microscopic study of cells and investigation of pertinent physico-chemical phenomena.
Prerequisite: Biology 271 or equivalent, and Chemistry 141, 142 (may be taken concurrently). *Four credit hours.*
-
- *311
FIELD AND SYSTEMATIC
BOTANY
MR. FOWLES
- Plant variation and evolution, illustrating the diversity of problems investigated by plant systematists and the variety of techniques used in studying these problems. Assembly of a plant collection is required. *Four credit hours.*
-
- †[313]
INVERTEBRATE ZOOLOGY
- The morphology, physiology and classification of the invertebrates in lecture and in laboratory. The first few weeks of the semester are spent largely in the field, gaining familiarity with invertebrate fauna and preparing collections. *Four credit hours.*
-
- 314
PLANT METABOLISM,
GROWTH AND BEHAVIOR
MR. FOWLES
- The essential mechanisms of plant growth and development; photosynthesis, trans-location and enzymology will be studied. *Four credit hours.*
-
- 315
PHYSIOLOGY
MR. TERRY
- An introduction to the physiological processes, including enzyme action, respiration, permeability, muscular contraction, nervous and hormonal coordination. *Four credit hours.*

†[317]
HISTOLOGY AND HISTOLOGICAL
TECHNIQUE

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.*

318
MICROBIOLOGY
MR. TERRY

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.*

†[319]
BIOLOGY OF THE
LOWER PLANTS

Comparative studies of the morphology, development, physiology, and significance of algae, fungi, and bryophytes. *Four credit hours.*

*331
EMBRYOLOGY
MR. SCOTT

Animal development with emphasis on experimental analysis. *Four credit hours.*

*333
CHORDATE EVOLUTION
MR. EASTON

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.*

352
ECOLOGICAL THEORY
MR. GILBERT

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.*

*354
MARINE ECOLOGY
MR. GILBERT

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.*

†[356]
INLAND ECOLOGY

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.*

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.*

121E, 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.

141E, 142
GENERAL CHEMISTRY AND
ELEMENTARY ANALYSIS
MR. MACHEMER

Lecture and text material the same as 121E, 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.*

221E, 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.

241E, 242
ORGANIC CHEMISTRY
MR. REID

Lecture and text material the same as 221E, 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.

341, 342

PHYSICAL CHEMISTRY

MR. RAY

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.

Prerequisite: Chemistry 331; Mathematics 122d (may be taken concurrently with Chemistry 341); Physics 142. *Five credit hours.*

411

INORGANIC CHEMISTRY

MR. SMITH

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.

Prerequisite: Chemistry 342. *Three credit hours.*

431

QUALITATIVE ORGANIC
ANALYSIS

MR. REID

The systematic identification of organic compounds. Two hours of lecture, six hours of laboratory per week.

Prerequisite: Chemistry 332, 342. *Four credit hours.*

432

ADVANCED ORGANIC
CHEMISTRY

MR. REID

Advanced topics, varied to suit the needs of the students: alicyclics, heterocyclics, natural products, reaction mechanisms, molecular rearrangements. Two hours of lecture per week.

Prerequisite: Chemistry 242. *Two credit hours.*

434

ADVANCED PHYSICAL
CHEMISTRY

MR. SMITH

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.

Prerequisite: Chemistry 342. *Three credit hours.*

467, 468

BIOCHEMISTRY

MR. MAIER

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.

Prerequisite: Chemistry 242. *Four credit hours.*

491, 492
SPECIAL TOPICS
STAFF

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

Classics (IN TRANSLATION)

IN THE DEPARTMENT OF CLASSICS

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

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

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

*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.*

[338]
LITERARY MOVEMENTS

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

Computer Science

IN THE DIVISION OF NATURAL SCIENCES

112d
INTRODUCTION
TO THE COMPUTER
MR. SHAW

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. *Two credit hours.*

[212]
BASIC LOGICAL DESIGNS
OF DIGITAL COMPUTERS

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

491, 492
SPECIAL TOPICS
STAFF

Individual study of special problems in East Asian civilization, offered in the departments which participate in the program.

Prerequisite: Permission of the instructor and the program chairman. *Three credit hours.*

Economics

241e, 242

PRINCIPLES OF ECONOMICS
STAFF

Principles of economics and their applications to modern economic life. Open to a limited number of freshmen with permission of department. *Three credit hours.*

321d2, †[322]

ECONOMICS OF GOVERNMENT
REGULATION
MR. COX

Economic power in a private enterprise economy and the role of government in this context. An examination of selected industries. *Prerequisite: Economics 241, 242. Three credit hours.*

†[323, 324]

PUBLIC FINANCE AND
FISCAL POLICY

American tax structure — federal, state and local — and the economic effects of various types of taxes and of government fiscal policy. *Prerequisite: Economics 241, 242. Three credit hours.*

331

INTERMEDIATE ECONOMIC
THEORY
MR. DUNLEVY

Theoretical concepts involved in the determination of price and output in a market economy. Analysis of both commodity and factor markets will be undertaken. *Prerequisite: Economics 241, 242. Three credit hours.*

333

ECONOMIC DEVELOPMENT
MR. MANNUR

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. *Prerequisite: Economics 241, 242. Three credit hours.*

336

MODERN THEORY OF INCOME
DETERMINATION
MR. COX

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. *Prerequisite: Economics 241, 242. Three credit hours.*

*341, 342

MONEY AND BANKING
MR. PULLEN

The role of money, credit and banking in the American economy, and the applicability of monetary policy to the problems of economic stability. *Prerequisite: Economics 241, 242. Three credit hours.*

†[361, 362] LABOR ECONOMICS	<p>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.</p> <p><i>Prerequisite:</i> Economics 241, 242. <i>Three credit hours.</i></p>
*372 EUROPEAN ECONOMIC HISTORY MR. GEMERY	<p>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.</p> <p><i>Prerequisite:</i> Economics 241, 242. <i>Three credit hours.</i></p>
†[374] AMERICAN ECONOMIC HISTORY	<p>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.</p> <p><i>Prerequisite:</i> Economics 241, 242. <i>Three credit hours.</i></p>
*381d2, [382] INTERNATIONAL ECONOMICS MR. MANNUR	<p>International trade theory, the balance of payments, commercial policy, problems of international disequilibrium and adjustment, the International Monetary Fund, and the World Bank.</p> <p><i>Prerequisite:</i> Economics 241, 242. <i>Three credit hours.</i></p>
†[391] COMPARATIVE ECONOMIC SYSTEMS	<p>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.</p> <p><i>Prerequisite:</i> Economics 241, 242. <i>Three credit hours.</i></p>
394 INTRODUCTION TO ECONOMETRICS MR. DUNLEVY	<p>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.</p> <p><i>Prerequisite:</i> Mathematics 241 or Mathematics 381. <i>Three credit hours.</i></p>
411 ECONOMIC THOUGHT 1750-1950 MR. GEMERY	<p>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.</p>

Prerequisite: Economics 241, 242, and senior standing. Required of all majors. *Three credit hours.*

491, 492
SPECIAL TOPICS
IN ECONOMICS
STAFF

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.*

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.*

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
MR. MIZNER

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
MR. WITHAM

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
MR. MACKAY AND
MR. RUSS

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
MR. ARNOLD AND
MR. BIERHAUS

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.*

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- 255d
INTRODUCTION TO THE POETRY
OF THE SEVENTEENTH CENTURY
MR. KOONCE AND
MR. ARNOLD
- 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.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 257d
INTRODUCTION TO EIGHTEENTH
CENTURY LITERATURE
MR. SUTHERLAND AND
MR. SWENEY
- A study of selected work by Pope, Swift, Johnson, Blake, and other major writers of the 18th century.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 259d
INTRODUCTION TO
ROMANTICISM
MR. MIZNER AND
MR. STRATMAN
- A survey of the major Romantic poets, with ancillary reading in the essay, novel, and minor poetry of the period.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 271d
INTRODUCTION TO AMERICAN
LITERATURE
MR. BRANCACCIO AND
MR. BASSETT
- 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.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 273
INTRODUCTION TO
VICTORIAN LITERATURE
MISS CURRAN
- 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.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 311d2
STUDIES IN MEDIEVAL
LITERATURE
MR. MACKAY
- Chaucer's development of his continental sources with special attention to *Troilus*, "The Knight's Tale," *The Parliament*, and *The House of Fame*.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- [312]
STUDIES IN THE
RENAISSANCE
- The poetry of Edmund Spenser. Attention will be focused upon *The Faerie Queene* and the problem of Renaissance epic.
Prerequisite: English 152 or 211. *Three credit hours.*

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- 315d2
STUDIES IN THE
SEVENTEENTH CENTURY
MR. KOONCE
- 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.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 317
INTRODUCTION TO
SHAKESPEARE
INSTRUCTOR
- Lectures on major comedies, histories, and tragedies, selected to cover Shakespeare's career and to illustrate the nature of Shakespearean drama.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- †[318]
STUDIES IN SHAKESPEARE
- 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.
Prerequisite: English 317. *Three credit hours.*
-
- 319
MILTON
MR. ARNOLD
- Milton's poetry and prose.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 331
STUDIES IN THE
EIGHTEENTH CENTURY
MR. SWENEY
- A study of the development of the novel as a major art form. Readings in Defoe, Richardson, Fielding, Smollett, Sterne, and others.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 332
STUDIES IN ROMANTICISM
MR. MIZNER
- Romanticism viewed as the ancestor of Existentialism. Readings in the novel and the drama of England, France, Russia, and Germany.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- 333
STUDIES IN VICTORIAN
LITERATURE: ART, ARTIST, AND
AUDIENCE
MISS CURRAN
- 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.
Prerequisite: English 152 or 211. *Three credit hours.*
-
- [335]
EARLY AMERICAN AUTHORS
- Selected prose and poetry from the Puritan period, the Age of Reason, and the pre-romantic movement in American literature.
Prerequisite: English 152 or 211. *Three credit hours.*

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- 336
AMERICAN REALISM AND
NATURALISM
MR. BRANCACCIO
- 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. BRANCACCIO
- 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.*

357, 358
MODERN DRAMA
MR. SUSS

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.

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

371
STUDIES IN CRITICISM
MR. STRATMAN

An intensive study of the poetics of Aristotle and of the *Ars Poetica* of Horace with the study of their importance in the medieval and renaissance literary tradition.

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

373
HISTORY OF THE LANGUAGE
MR. RUSS

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.

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

391
ADVANCED FICTION WORKSHOP
INSTRUCTOR

Practice in the writing of short stories with major emphasis upon student manuscripts.

Prerequisite: English 118 or permission of the instructor. *Three credit hours.*

393
ADVANCED POETRY WORKSHOP
INSTRUCTOR

Practice in the writing of poetry with major emphasis upon student manuscripts.

Prerequisite: English 118 or permission of the instructor. *Three credit hours.*

394
HONORS SEMINAR
STAFF

Topics, which change each year, normally investigate a genre and cut across literary periods.

Prerequisite: Open only to members of *Honors Program*. *Three credit hours.*

396d
ORAL INTERPRETATION
MR. WITHAM

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

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

<p>411 THE TEACHING OF ENGLISH MR. HUNT</p>	<p>Reading and discussion of current issues and methods in the teaching of English and participation in the Center for Coordinated Studies.</p> <p><i>Prerequisite:</i> Concurrent enrollment in Education 441 or permission of the instructor. <i>Three credit hours.</i></p>
<p>423, 424 MAJOR AMERICAN ROMANTICS MR. CARY</p>	<p>The golden age of romanticism in American literature. First semester: representative works of Poe, Emerson, Thoreau; second semester: Whitman, Melville, Hawthorne.</p> <p><i>Prerequisite:</i> English 152 or 211. <i>Three credit hours.</i></p>
<p>491, 492 TOPICS IN LITERATURE STAFF</p>	<p>Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work.</p> <p><i>Prerequisite:</i> Permission of the chairman. <i>Three credit hours.</i></p>
<p>493, 494 SEMINARS IN ENGLISH AND AMERICAN LITERATURE STAFF</p>	<p>Topics which change each semester may cover an author, a genre, or a literary movement.</p> <p><i>Prerequisite:</i> Permission of the department. <i>Three credit hours.</i></p>

French

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

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

<p>111, 112 ELEMENTARY FRENCH STAFF</p>	<p>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. <i>Four credit hours.</i></p>
<p>113, 114 INTERMEDIATE FRENCH STAFF</p>	<p>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.</p> <p><i>Prerequisite:</i> French 112 or two years of high-school French and appropriate score on the placement test. <i>Three credit hours.</i></p>

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. FILOSOF

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.*

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>321, 322 INDEPENDENT STUDY STAFF</p>	<p>Students work independently on a tutorial basis in one or more areas of French literature and civilization. <i>Prerequisite:</i> French 222. Open only to junior French majors. <i>Four credit hours.</i></p>
<p>[343, 344] FRENCH LITERATURE OF THE EIGHTEENTH CENTURY</p>	<p>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 <i>belles-lettres</i>. <i>Prerequisite:</i> French 242 or permission of the instructor. <i>Three credit hours.</i></p>
<p>†[361, 362] STUDIES IN THE FRENCH NOVEL</p>	<p>A consideration of some of the major French novelists, grouped usually by theme, period, or genre. <i>Prerequisite:</i> French 126 or equivalent. <i>Three credit hours.</i></p>
<p>363, 364 STUDIES IN FRENCH POETRY MR. BUNDY</p>	<p>A consideration of some of the major French poets grouped usually by theme, period, or movement. <i>Prerequisite:</i> French 126 or equivalent. <i>Three credit hours.</i></p>
<p>365, 366 STUDIES IN FRENCH THEATRE MR. KELLENBERGER AND MR. SMITH</p>	<p>A consideration of some of France's major dramatists, grouped usually by theme, period, or genre. <i>Prerequisite:</i> French 126 or equivalent. <i>Three credit hours.</i></p>
<p>411 TEACHING OF MODERN FOREIGN LANGUAGES MR. BUNDY</p>	<p>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. <i>Prerequisite:</i> French 222 or 242. <i>Three credit hours.</i></p>
<p>411-L LANGUAGE TEACHING STAFF</p>	<p>Directed practice in conduct of introductory language courses. Open to a limited number of students enrolled in French 411. <i>Two credit hours.</i></p>
<p>†[412] ADVANCED COMPOSITION AND STYLISTICS</p>	<p>Characteristics of French style as seen in various authors. Representative readings and free composition, with some work in the history of the language. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i></p>

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. <i>Prerequisite:</i> French 322. Open only to senior majors in French. <i>Four credit hours.</i>
491, 492 TOPICS IN FRENCH LITERATURE STAFF	Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>
493, 494 SEMINAR IN FRENCH LITERATURE STAFF	Topics which change each semester may cover an author, a genre, or a literary movement. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>

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. <i>Three credit hours.</i>
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. <i>Four credit hours.</i>
121e, 122 INTRODUCTION TO GEOLOGICAL SCIENCE (I)¹ MR. KOONS	The physical and biological evolution of the earth, with emphasis on mechanisms and processes. Satisfies science distribution requirement, but not laboratory science. <i>Three credit hours.</i>
141e, 142 INTRODUCTION TO GEOLOGICAL SCIENCE (II)¹ 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. <i>Four credit hours.</i>

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

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- 161e, 162
PROBLEMS IN GEOLOGY¹
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.*
-
- 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.*
-
- †[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.*
-
- *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.*

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

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- 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 petroliferous 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.*

†[335]
ROMANTICISM

Representative works of Holderlin, Novalis, Tieck, August Wilhelm Schlegel, Friedrich Schlegel, Eichendorff and E. Th. A. Hoffmann.

Prerequisite: German 126 or 216. *Three credit hours.*

†[336]
THE NOVELLE

Extensive readings in the novelle of the nineteenth century.

Prerequisite: German 126 or 216. *Three credit hours.*

338
NINETEENTH CENTURY POETRY
MR. BITHER

Selected poems of the major poets of the nineteenth century.

Prerequisite: German 126 or 216. *Three credit hours.*

†[343, 344]
GERMAN LITERATURE OF THE
EIGHTEENTH CENTURY

The literature of the classical period: Klopstock, Wieland, Herder, Lessing, Goethe, and Schiller. Emphasis on a detailed study of the masterpieces of Goethe and Schiller.

Prerequisite: German 126 or 216. *Three credit hours.*

*347, 348
CONTEMPORARY GERMAN
LITERATURE
MR. SCHMIDT

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.

Prerequisite: German 126 or 216. *Three credit hours.*

*351
MIEVIAL LITERATURE
MR. KUETER

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.

Prerequisite: Two semester courses beyond German 126 or 216. *Three credit hours.*

*352
HUMANISM, REFORMATION
AND BAROQUE
MR. KUETER

Selected readings from major authors of each period, with special emphasis on their influence on German thought and literature.

Prerequisite: German 351. *Three credit hours.*

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. <i>Prerequisite:</i> German 126, 215, or 216. <i>Three credit hours.</i>
411-L LANGUAGE TEACHING STAFF	Directed practice in conduct of introductory language courses. Open to a limited number of students enrolled in German 411. <i>Two credit hours.</i>
491, 492 TOPICS IN GERMAN LITERATURE STAFF	Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>
[493], 494 SEMINAR 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 <i>Faust</i> . <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>

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. <i>Three credit hours.</i>
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. <i>Three credit hours.</i>

136 POLITICAL MODERNIZATION IN ASIA INSTRUCTOR	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. <i>Three credit hours.</i>
235 EUROPEAN POLITICS INSTRUCTOR	Britain, France, and West Germany viewed in terms of their contemporary political structures and in terms of the problems they face. <i>Three credit hours.</i>
237 EVOLUTION OF POLITICAL INSTITUTIONS IN EAST ASIA INSTRUCTOR	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. <i>Three credit hours.</i>
257 THE AMERICAN PRESIDENCY INSTRUCTOR	A study of the powers and limitations of the federal executive in modern American politics. <i>Three credit hours.</i>
258 THE LEGISLATIVE PROCESS INSTRUCTOR	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. <i>Three credit hours.</i>
314d1 AMERICAN CONSTITUTIONAL LAW MR. MAVRINAC	The United States Supreme Court and constitutional litigation as part of the American political process. <i>Three credit hours.</i>
321, 322 POLITICAL THEORY INSTRUCTOR	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. <i>Three credit hours.</i>
*333 TOTALITARIAN GOVERNMENT AND POLITICS MR. MAVRINAC	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. <i>Three credit hours.</i>

335 INTERNATIONAL RELATIONS MR. WEISSBERG	Principles of international politics, stressing such topics as the balance of power, collective security, diplomacy and nationalism. <i>Three credit hours.</i>
†[336] INTERNATIONAL ORGANIZATION	The structure, politics and current operation of international organizations within the nation-state system, with particular emphasis on the United Nations. <i>Three credit hours.</i>
†[338] INTERNATIONAL LAW	The body of rules and principles of behavior which govern states in their relations with each other, as illustrated in cases and texts. <i>Three credit hours.</i>
371 EAST ASIAN POLITICAL THOUGHT INSTRUCTOR	Analysis of works by the leading political thinkers of China and Japan. Modern writings will be read in translation for class discussion. <i>Three credit hours.</i>
†[377] SPECIAL PROBLEMS IN LOCAL GOVERNMENT	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. <i>Three credit hours.</i>
378 POLITICAL INSTITUTIONS OF MODERN CHINA INSTRUCTOR	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. <i>Prerequisite:</i> At least one government or history course related to China, or permission of the instructor. <i>Three credit hours.</i>
391 PUBLIC ADMINISTRATION INSTRUCTOR	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. <i>Three credit hours.</i>

392
STATE AND LOCAL GOVERNMENT
MR. FARR

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. *Three credit hours.*

[398]
COMPARATIVE FOREIGN
POLICIES

Comparative study of the impact of institutional structures, ideology, various definitions of national aims, and competing military, intelligence, and diplomatic institutions on the formation of foreign policy and the international behavior of the major powers. *Three credit hours.*

414
SEMINAR IN
COMPARATIVE POLITICS
INSTRUCTOR

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." *Three credit hours.*

416
SEMINAR IN EAST ASIAN
THOUGHT AND INSTITUTIONS
INSTRUCTOR

Discussions, research, and reports on selected problems of Chinese and Japanese political thought and governmental structure.
Prerequisite: At least one government or history course related to China or Japan, or permission of the instructor. *Three credit hours.*

435d2
SEMINAR IN AMERICAN
NATIONAL GOVERNMENT AND
POLITICS
INSTRUCTOR

The American national government as organization and process, and of the elements of national political life.
Prerequisite: Permission of the instructor. *Three credit hours.*

[436]
AMERICAN POLITICS SEMINAR:
VOTING BEHAVIOR

An intensive examination of the social and psychological determinants of voting behavior. *Three credit hours.*

457
FOREIGN POLICY OF THE
UNITED STATES
MR. WEISSBERG

Problems of planning and executing American foreign policy.
Prerequisite: Government 335, or equivalent; or permission of the instructor. *Three credit hours.*

[458]
SEMINAR ON THE
UNITED NATIONS

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

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. <i>Three credit hours.</i>
*352 GREEK LITERATURE MRS. KOONCE	Sophocles. <i>Three credit hours.</i>
†[353] GREEK LITERATURE	Demosthenes. <i>Three credit hours.</i>
†[354] GREEK LITERATURE	Euripides. <i>Three credit hours.</i>
[355] GREEK LITERATURE	Herodotus. <i>Three credit hours.</i>
[356] GREEK LITERATURE	Plato. <i>Three credit hours.</i>
[413] SEMINAR	Aeschylus. <i>Three credit hours.</i>
[414] SEMINAR	Aristophanes. <i>Three credit hours.</i>
491, 492 GREEK LITERATURE INDEPENDENT READING IN GREEK STAFF	Reading in a field of the student's interest, with essays and conferences. <i>Variable, one to three credit hours by prior arrangement.</i>

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

proposed for each section is available at registration. Limited to freshmen. *Three credit hours.*

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- 133, 134
INTRODUCTION TO THE
HISTORY OF EAST ASIA
MR. CRITCHFIELD
- 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.*
-
- 221, 222
HISTORY OF EAST ASIAN
CIVILIZATION
MR. CRITCHFIELD
- 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.*
-
- 223, 224
SURVEY OF
UNITED STATES HISTORY
MR. KANY AND
MR. BRIDGMAN
- United States history from the Age of Discovery to the present. Although chronological symmetry is maintained, an effort is made to demonstrate the particular value of political, economic, and constitutional interpretations. Open to a limited number of freshmen. Formerly listed as History 281, 282. *Three credit hours.*
-
- 231
MEDIEVAL CIVILIZATION
476-1300
MR. BERSCHNEIDER
- 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.*
-
- 232
RENAISSANCE AND
REFORMATION
1300-1648
MR. BERSCHNEIDER
- An intellectual and cultural history of the period of transition from the medieval to the modern world. *Three credit hours.*
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- 237
THE EMERGENCE OF MODERN
BRITAIN, 1688-1867
MR. GILLUM
- England and her colonies during the American, French and Industrial Revolutions. *Three credit hours.*

238
BRITAIN SINCE 1867
MR. GILLUM

Britain from the Age of Imperialism through the era of World Wars, and to the dissolution of the Empire. *Three credit hours.*

297
AFRO-AMERICAN HISTORY I
MR. FONER

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

298
AFRO-AMERICAN HISTORY II
MR. FONER

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

311
TUTORIAL IN HISTORY
MR. RAYMOND

Individual work in history, especially for juniors, built around weekly one-hour tutorial sessions between each tutee and the instructor. Enrollment limited to six students.
Prerequisite: Permission of the instructor. *One to three credits by prior arrangement.*

†[323, 324]
DIPLOMATIC HISTORY,
NINETEENTH AND
TWENTIETH CENTURIES

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

*331
THE BRITISH EMPIRE
AND COMMONWEALTH
MR. GILLUM

A history of the British Empire after the American Revolution, the governmental and economic development of the Empire, and its evolution into the modern Commonwealth of Nations.
Prerequisite: A one-year course, or equivalent, in history, or permission of the instructor. *Three credit hours.*

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

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

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- †[337]
TUDOR-STUART ENGLAND
- The contest of religious doctrines and the conflict of political concepts, from the Renaissance monarchy of Henry VII to the "Glorious Revolution" of 1688. Open to sophomores by permission. *Three credit hours.*
-
- 341, 342
HISTORY OF RUSSIA AND THE U.S.S.R.
MR. RAYMOND
- The expansion of the Russian state and the political and social development of the Russian people under the Tsarist and Soviet regimes.
Prerequisite: One year-course, or equivalent, in history or government, or permission of the instructor. *Three credit hours.*
-
- *351
INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE
MR. BERSCHNEIDER
- Principal trends and leaders of new thought (Darwin, Marx, Freud *et al.*) with emphasis on late-nineteenth and twentieth century intellectual developments. *Three credit hours.*
-
- [353]
MODERN FRANCE
- Traditional French society and the various reactions to economic and social threats from 1848 to the present. Formerly listed as History 357.
Prerequisite: One year course, or equivalent, in history, or permission of the instructor. *Three credit hours.*
-
- 354
THE FRENCH REVOLUTION AND NAPOLEON
MR. RAYMOND
- European history from 1789 to 1815, with emphasis on political and social developments in France. Formerly listed as History 372.
Prerequisite: One-year course, or equivalent, in history or government, or permission of the instructor. *Three credit hours.*
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- †[356]
MODERN GERMANY
- The governmental and economic development and the international influence of Germany from 1848 to the present time. Formerly listed as History 375.
Prerequisite: One-year course, or equivalent, in history or government, or permission of the instructor. *Three credit hours.*
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- [359]
MODERN JAPANESE HISTORY
- 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. *Three credit hours.*

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.*

†[375]
AMERICAN COLONIAL
HISTORY

A study of the period of European colonization of North America and of the emergence of the American social and political "system" of 1776 and 1787 that prefigures the United States of the 19th and 20th Centuries. Formerly listed as History 314. *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

and economic issues. Changing interpretations of historians will also be investigated.

Prerequisite: Concurrent enrollment in English 337d1. Open to sophomore majors in American studies. *Three credit hours.*

378
THE UNITED STATES,
1860-1890
MR. FONER

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.*

*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.*

†[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.*

*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.*

†[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.*

†[414]
SEMINAR IN
JAPANESE HISTORY

Special topics in Japanese history.

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

416 Special topics in American History.
SEMINAR IN AMERICAN HISTORY *Prerequisite:* Permission of the instructor. *Three credit hours.*
 MR. BRIDGMAN

418 Methods of historical research and critical study of sources and documents in a special topic of European history.
SEMINAR IN EUROPEAN HISTORY *Prerequisite:* Permission of the instructor. *Three credit hours.*
 MR. BERSCHNEIDER

432 Group discussion and individual reports based on research on selected topics in Afro-American History.
SEMINAR IN AFRO-AMERICAN HISTORY *Prerequisite:* Permission of the instructor. *Three credit hours.*
 MR. FONER

†[433] Reading and research on various topics in English history, with special attention devoted to political history in the nineteenth or twentieth centuries.
SEMINAR IN ENGLISH HISTORY *Prerequisite:* Permission of the instructor. *Three credit hours.*

491, 492 A study of history through special topics.
TOPICS IN HISTORY *Prerequisite:* History major and permission of the department chairman. *Three credit hours.*
 STAFF

Italian

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

[121, 122] 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.
ELEMENTARY ITALIAN *Prerequisite:* Completion of 114 (or equivalent) in another language or permission of the instructor. *Four credit hours.*

211d2 Study of *The Divine Comedy* and of *The New Life* in English translation. No knowledge of Italian is required.
DANTE *Prerequisite:* Completion of a semester course in literature at the college level. *Three credit hours.*
 MR. KELLENBERGER

Japanese

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

111, 112

ELEMENTARY JAPANESE
INSTRUCTOR

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.*

113, 114

INTERMEDIATE JAPANESE
INSTRUCTOR

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.*

[131]

INTRODUCTION TO
JAPANESE CULTURE

An introduction to Japanese culture through critical reading (in translation) of selected literary works of a given period. No knowledge of Japanese required.

Prerequisite: Enrollment in Center for Coordinated Studies or permission of instructor. *Three credit hours.*

151, 152

INTRODUCTION TO
EAST ASIAN LITERATURE
INSTRUCTOR

An introduction to East Asian culture through the critical reading of selected literary works in English translation. *Three credit hours.*

†[231, 232]

JAPANESE LITERATURE
IN TRANSLATION

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.*

†[241, 242]

ADVANCED JAPANESE

Third year level of language work with concentration on readings from newspapers, magazines, and modern prose.

Prerequisite: Japanese 114. *Three credit hours.*

491, 492

TOPICS IN EAST
ASIAN 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.*

Latin

IN THE DEPARTMENT OF CLASSICS

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.*

†[353]
LATIN LITERATURE

Roman elegy. *Three credit hours.*

†[354]
LATIN LITERATURE

Cicero: selected speeches. *Three credit hours.*

[355]
LATIN LITERATURE

Roman satire. *Three credit hours.*

[356]
LATIN LITERATURE

Cicero: letters. *Three credit hours.*

[357] Horace: *Odes* and *Ars Poetica*. *Three credit hours.*
LATIN LITERATURE

[358] Tacitus. *Three credit hours.*
LATIN LITERATURE

[359] Virgil: *Eclogues* and *Georgics*. *Three credit hours.*
LATIN LITERATURE

[360] Terence. *Three credit hours.*
LATIN LITERATURE

[414] Virgil: *Aeneid*. *Three credit hours.*
SEMINAR

491, 492 Reading in a field of the student's interest, with essays and conferences. *One to three credit hours by prior arrangement.*
INDEPENDENT READING
IN LATIN
STAFF

Mathematics

113d 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.
LINEAR ALGEBRA *Three credit hours.*
STAFF

121d Elementary differential and integral calculus. *Three credit hours.*
CALCULUS I
STAFF

122d Further study of differential and integral calculus with selected applications.
CALCULUS II *Prerequisite: Mathematics 121d. Four credit hours.*
STAFF

212d CALCULUS III STAFF	A continuation of Calculus II. <i>Prerequisite:</i> Mathematics 122d. <i>Four credit hours.</i>
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. <i>Prerequisite:</i> Mathematics 121d. <i>Three credit hours.</i>
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. <i>Prerequisite:</i> Mathematics 113d or 121d. <i>Three credit hours.</i>
311 DIFFERENTIAL EQUATIONS MR. COMBELLACK	Solutions of elementary differential equations and an introduction to partial differential equations. <i>Prerequisite:</i> Mathematics 122d. <i>Three credit hours.</i>
314 TOPICS IN ANALYSIS MR. JUNGHANS	Solutions of differential equations, including Bessel's, by series; Fourier series; the vibrating string problem; the operator Δ and the integral theorems; and finite differences. <i>Prerequisite:</i> Mathematics 311. <i>Two credit hours.</i>
316 THE LAPLACE TRANSFORM MR. JUNGHANS	Theory and applications of the Laplace transform. <i>Prerequisite:</i> Mathematics 311. <i>One credit hour.</i>
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. <i>Prerequisite:</i> Some programming experience; Mathematics 113d and 212d, or permission of the instructor. <i>Three credit hours.</i>

352 COMPLEX VARIABLES MR. FUGLISTER	The arithmetic and calculus of complex numbers. The basic properties of analytic functions including an introduction to residues and conformal mapping. <i>Prerequisite:</i> Mathematics 212d. <i>Three credit hours.</i>
361, 362 HIGHER ALGEBRA MRS. ZUKOWSKI	Introduction to algebraic structures such as groups, rings, integral domains, fields, and related topics; further study of linear algebra. <i>Prerequisite:</i> Mathematics 113d and 122d. <i>Three credit hours.</i>
381, 382 MATHEMATICAL STATISTICS MR. HAYSLETT	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. <i>Prerequisite:</i> Mathematics 212d. <i>Three credit hours.</i>
421, 422 ADVANCED CALCULUS MR. SMALL	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. <i>Prerequisite:</i> Mathematics 212d and senior standing or permission of the instructor. <i>Three credit hours.</i>
431 INTRODUCTION TO TOPOLOGY MR. FUGLISTER	General topology, including such topics as elementary point set topology, mappings, and metric spaces. <i>Prerequisite:</i> Mathematics 421, passed or taken concurrently. <i>Three credit hours.</i>
432 HIGHER GEOMETRY MR. FUGLISTER	Properties of various geometries with emphasis on axiomatic development. <i>Prerequisite:</i> Mathematics 361, 362. <i>Three credit hours.</i>
491, 492 SPECIAL TOPICS STAFF	Independent study in an area of mathematics of particular interest to the student. <i>Prerequisite:</i> Mathematics major and permission of the department. <i>Variable two to four credit hours.</i>

Modern Foreign Languages

191, 192
INDEPENDENT STUDY
IN CRITICAL LANGUAGES
STAFF

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
STAFF

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

†[113]
CHANSONS AND LIEDER

A detailed study of art songs, French chansons, and German lieder, with emphasis given to the songs and song cycles of Schubert, Schumann, Brahms, Mahler, Wolf, Debussy, and contemporary composers. *Three credit hours.*

115
MUSIC IN THE MEDIEVAL ERA
INSTRUCTOR

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
INSTRUCTOR

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.*

†[117] TRANSCRIPTION OF MEDIEVAL AND RENAISSANCE MANUSCRIPTS	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. <i>Three credit hours.</i>
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121, 122 THEORY AND PRACTICE OF MUSIC MR. RÉ AND MRS. REUMAN	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. <i>Three credit hours.</i>
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141d, 142d BAROQUE, CLASSICAL, AND ROMANTIC MUSIC STAFF	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. <i>Three credit hours.</i>
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215 COUNTERPOINT MR. RÉ	A study of the principles of the sixteenth, seventeenth, and eighteenth century polyphony. Composition of canons, inventions, and fugues. Analysis of representative works. <i>Three credit hours.</i>
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†[216] BAROQUE AND ROCOCO	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. <i>Three credit hours.</i>
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221, 222 HARMONY MR. RÉ	Harmonization of given and original melodies; analysis of compositions selected from major composers. Second semester: special emphasis on chromatic chord formations; some keyboard harmony. <i>Prerequisite:</i> Music 121, 122. <i>Three credit hours.</i>
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312 CONTEMPORARY MUSIC MR. RÉ	Trends in the art of music following the time of Wagner and the late romantics. Consideration of varied techniques of twentieth century composers. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>
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†[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

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|---|---|
| <p>123, 124
INTRODUCTION TO
PHILOSOPHY,
GENERAL PROBLEMS
MR. HUDSON AND
STAFF</p> | <p>Studies of typical problems of Western Philosophy as introduced by some of the great thinkers. <i>Three credit hours.</i></p> |
| <p>134
PHILOSOPHICAL ECOLOGY
INSTRUCTOR</p> | <p>A consideration of man's relation to nature. A suitable sequel to either Philosophy 123 or Religion 121. <i>Three credit hours.</i></p> |
| <p>211
MORAL PHILOSOPHY
INSTRUCTOR</p> | <p>(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. <i>Three credit hours.</i></p> |
| <p>212d
LOGIC
INSTRUCTOR</p> | <p>Elementary deductive and inductive logic. Open to freshmen with permission of the instructor. <i>Three credit hours.</i></p> |
| <p>236
SOCIAL PHILOSOPHY
MR. CLARK</p> | <p>Readings from Plato, Locke, Rousseau, and Marx; their relevance to contemporary problems. <i>Three credit hours.</i></p> |
| <p>313
AESTHETICS
MR. NARAVANE</p> | <p>Problems that arise in analyses and criticisms of the arts.
<i>Prerequisite:</i> Three hours of philosophy or permission of the instructor. Intended primarily for literature and art students. <i>Three credit hours.</i></p> |
| <p>[316]
TYPES OF PHILOSOPHY</p> | <p>A contemporary approach to speculative philosophy including a study of methods and criteria, and a comparative study of the major contemporary philosophical systems.
<i>Prerequisite:</i> Three hours of philosophy or permission of the instructor. <i>Three credit hours.</i></p> |

317
PHILOSOPHY OF SCIENCE
MR. PETERS

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.*

†[319]
ETHICS AND
GENERAL THEORY
OF VALUE

Philosophic approaches to the nature of value, especially ethical judgments. Among the views considered will be intuitionism, emotivism, "good reasons" theory, and those relating to scientific findings.

Prerequisite: Philosophy 211 or permission of the instructor. *Three credit hours.*

331
HISTORY OF ANCIENT
PHILOSOPHY
MR. CLARK

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.*

332
HISTORY OF MODERN
PHILOSOPHY
INSTRUCTOR

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.*

333
PHILOSOPHY OF EDUCATION
MR. HUDSON

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.*

352
AMERICAN THOUGHT
MR. HUDSON

American philosophical thought and its implications for education from the colonial period to the present with particular attention to the American enlightenment and pragmatism.

Prerequisite: Philosophy 332 or 333 or permission of the instructor. *Three credit hours.*

353
CONTEMPORARY PHILOSOPHY
MR. PETERS

Major philosophic movements since 1900 are studied as background for examining current philosophical problems in analytic philosophy and phenomenology.

Prerequisite: Two semester courses in philosophy or permission of the instructor. *Three credit hours.*

355 INDIAN THOUGHT MR. NARAVANE	Types of Indian philosophy of the ancient period. <i>Prerequisite:</i> Two previous semester courses in philosophy and /or religion; no previous Indian thought. <i>Three credit hours.</i>
[356] INDIAN THOUGHT	Types of Indian philosophy of the modern period. <i>Prerequisite:</i> Two previous semester courses in philosophy and/or religion. <i>Three credit hours.</i>
†[357] SYMBOLIC AND FORMAL LOGIC	Mathematical logic (higher order logical calculi); logical theory (axiomatization, consistency, completeness, decidability); modal logic; selected topics in philosophical logic (e.g., reference, meaning). <i>Prerequisite:</i> Philosophy 212. <i>Three credit hours.</i>
359 NINETEENTH CENTURY PHILOSOPHY INSTRUCTOR	Post-Kantian thinkers such as Hegel, Kierkegaard, Schopenhauer, Nietzsche and Bergson. Special attention to the revolt against reason, evolution, and alienation. <i>Prerequisite:</i> Philosophy 331, 332 or permission of instructor. <i>Three credit hours.</i>
*372 PHILOSOPHY OF RELIGION MR. TODRANK	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. <i>Prerequisite:</i> Religion 121, 122 or one course in philosophy. <i>Three credit hours.</i>
*373 HISTORY OF MEDIEVAL PHILOSOPHY MR. THORWALDSEN	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. <i>Prerequisite:</i> Philosophy 331. <i>Three credit hours.</i>
391, 392 PHILOSOPHY SEMINARS STAFF	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. <i>Prerequisite:</i> Permission of the instructors. <i>Three credit hours.</i>
491, 492 TOPICS IN PHILOSOPHY STAFF	Special topics are chosen each year to meet the needs of the students involved. Primarily for majors in the department. <i>Prerequisite:</i> Permission of the department. <i>Variable, two to four credit hours.</i>

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. <i>Prerequisite:</i> Physics 142, and Mathematics 212d (either passed with a grade of C or higher or taken concurrently). <i>Four credit hours.</i>
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. <i>Prerequisite:</i> Physics 142 or equivalent. <i>Three credit hours.</i>
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. <i>Prerequisite:</i> Physics 142, and Mathematics 311 (either passed or taken concurrently). <i>Three credit hours.</i>
331 CLASSICAL MECHANICS INSTRUCTOR	Vectorial and analytical mechanics. Extensive use is made of vector analysis and of the calculus. <i>Prerequisite:</i> Physics 142, and Mathematics 311 (either passed or taken concurrently). <i>Three credit hours.</i>
372 CONSTANTS LABORATORY MR. BANCROFT	Measurement, in theory and technique, of important physical constants of mechanics, thermodynamics, electromagnetism, and atomic physics. <i>Prerequisite:</i> Junior standing in physics or permission of the department. <i>Two credit hours.</i>
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. Electrodynamical 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.*

<p>211d INTRODUCTION TO PSYCHOLOGY MR. DESISTO</p>	<p>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. <i>Three credit hours.</i></p>
<p>231d PERSONALITY AND SOCIAL PSYCHOLOGY MR. GILLESPIE</p>	<p>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. <i>Three credit hours.</i></p>
<p>†[311] MOTIVATION</p>	<p>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. <i>Prerequisite:</i> Two semester courses in psychology. <i>Three credit hours.</i></p>
<p>*313 ANIMAL BEHAVIOR MR. DESISTO</p>	<p>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. <i>Prerequisite:</i> Two semester courses in psychology, two semester courses in biology, and permission of the instructor. <i>Three credit hours.</i></p>
<p>314 DEVELOPMENTAL PSYCHOLOGY MR. ZOHNER</p>	<p>Principles of development from conception through adolescence, examined from biological, sociocultural, and psychodynamic perspectives. <i>Prerequisite:</i> Two semester courses in psychology or permission of the instructor. <i>Three credit hours.</i></p>
<p>352 PHYSIOLOGICAL BASIS OF BEHAVIOR MR. DESISTO</p>	<p>Structure and function of the nervous system as related to behavior. Physiological basis of sensation, learning, motivation, emotion, and reflex activity. <i>Prerequisite:</i> Two semester courses in psychology, two semester</p>

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.

Prerequisite: Permission of the instructor. Limited to senior majors in psychology and sociology. *Three credit hours.*

473
PROBLEMS IN
HUMAN PSYCHOLOGY
MR. DE HART

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. TODRANK

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.*

†[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.*

†[319]
MYTH AND RITUAL

A study of archaic and primitive myths with emphasis on creation stories and the rituals of renewal associated with cosmogenic mythology. Enrollment limited. *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 Solzhenitzyn (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.

-
- †[396]
COLLECTIVE BEHAVIOR
- A social analysis of phenomena of collective behavior — crowds, public opinion, propaganda, and communication — and the forces which mold each. Special attention is given to the major mass media and their function in modern society.
Prerequisite: Sociology 221, 222. *Three credit hours.*
-
- 401, 402
SOCIOLOGY SEMINAR
MR. ROSENTHAL
- Major problems of sociology as a science. Much of the work is devoted to individual projects, developed from group discussions.
Prerequisite: Senior standing and permission of the instructor.
Three credit hours.
-
- 411
NORMATIVE SOCIAL THEORY
MR. BIRGE
- Normative social theory with special emphasis upon such works as Plato's *Republic*, Owen's *A New View of Society*, and Bellamy's *Looking Backward*.
Prerequisite: Sociology 221, 222. *Three credit hours.*
-
- 412
HISTORY OF SOCIOLOGICAL THEORY
MR. BIRGE
- 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.
Prerequisite: Sociology 221, 222. *Three credit hours.*
-
- 416
SPECIAL TOPICS
MR. MARKS
- Topic in 1972: Sociology and Marxism.
Prerequisite: Senior standing and permission of instructor.
Three credit hours.
-
- 491, 492
TOPICS IN SOCIOLOGY
STAFF
- Individual topics in areas where the student has demonstrated interest and competence necessary for independent work.
Prerequisite: Senior standing and permission of the department.
Three credit hours.
-
- INTERDEPARTMENTAL
COURSE
- Psychology 453, *Social Psychology*, is also applicable toward fulfillment of the major in sociology (see *psychology* listings for description of this course). *Three credit hours.*

Spanish

IN THE DEPARTMENT OF MODERN FOREIGN LANGUAGES

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

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
MUNDO HISPANICO
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. PÉREZ
- 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. <i>Two credit hours.</i>
491, 492 TOPICS IN SPANISH LITERATURE STAFF	Individual projects in areas where the student has demonstrated the interest and competence necessary for independent work. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>
[493, 494] SEMINAR IN SPANISH AND LATIN AMERICAN LITERATURE	Topics which change each semester may cover an author, a genre, or a literary movement. <i>Prerequisite:</i> Permission of the instructor. <i>Three credit hours.</i>

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.

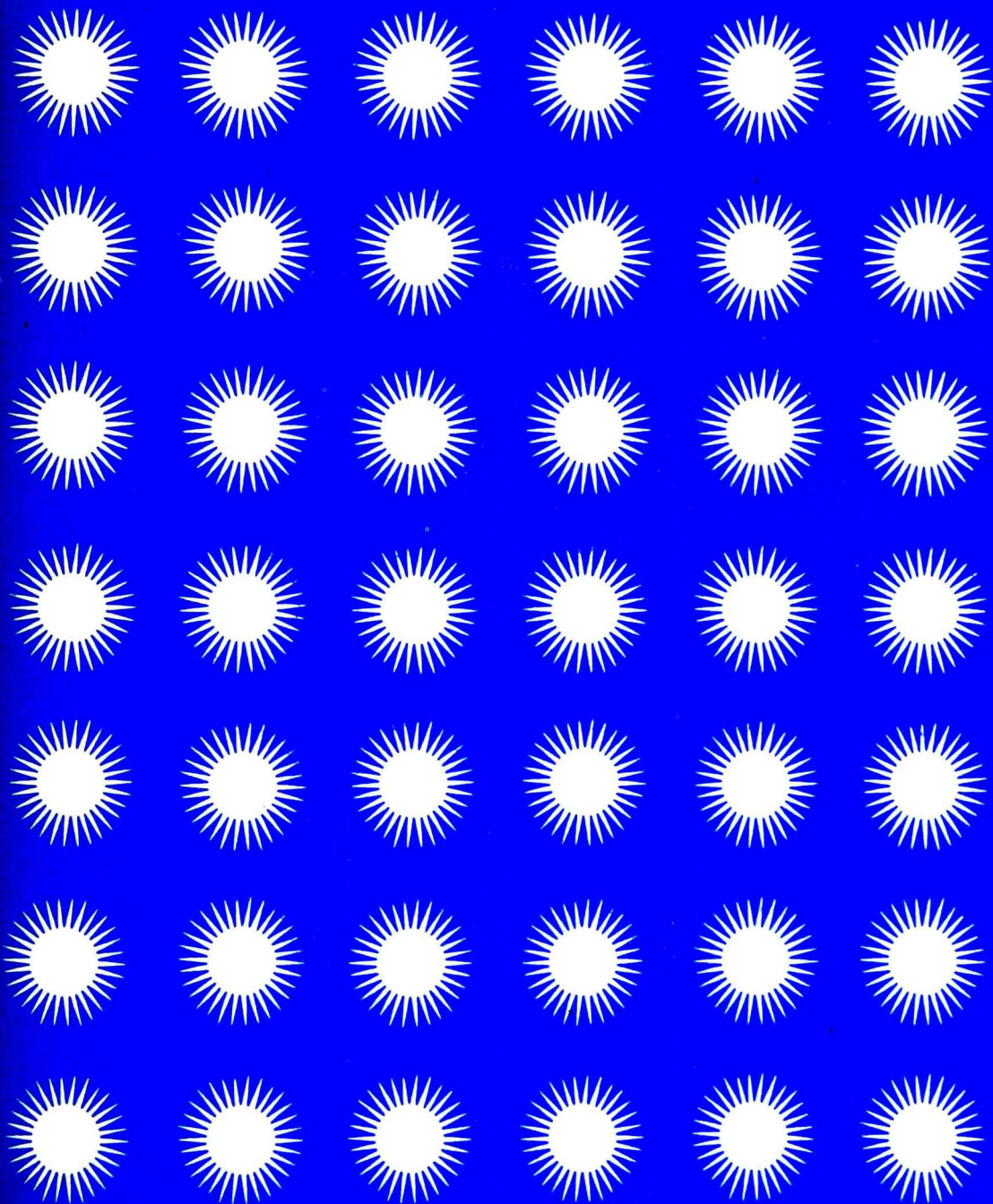
A fifth year of preparation at another institution will be required for those who want to defer professional education training, and for those who want to prepare for certification in pre-school and elementary teaching, special education, guidance, administration, and special subjects such as art and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

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

The Colby Placement Office, the Office of Education, and the Secondary School Teaching Committee advise students interested in graduate work in the field of education.

BUSINESS

The training for positions in business and industry offered by the graduate schools of business administration at Harvard, Chicago, Cornell, the Wharton School of the University of Pennsylvania, and the Amos Tuck School of Dartmouth College, leads many Colby graduates to seek admission into these and similar schools. The department of administrative science serves as general adviser for graduate work of this sort. Seniors who have such a program in mind are encouraged to take the admission test for graduate study in business.



III DIRECTORIES AND APPENDICES

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 - COLLEGE CALENDAR, 1971-1972, INSIDE BACK COVER

The Corporation

Corporate Name THE PRESIDENT AND TRUSTEES OF COLBY COLLEGE

OFFICERS	<p>President ROBERT EDWARD LEE STRIDER, II PH.D., LL.D., HH.D., L.H.D., D.S. in B.A., D.ED. <i>Waterville, Maine</i></p> <p>Chairman of the Board ALBERT C. PALMER, B.A., M.A. <i>Stoneham, Massachusetts</i></p> <p>Acting Dean of the Faculty ROBERT MARK BENBOW, PH.D. <i>Fairfield, Maine</i></p> <p>Administrative Vice-President ROBERT WHITE PULLEN, PH.D. <i>Waterville, Maine</i></p> <p>Vice-President for Development EDWARD HILL TURNER, B.A. <i>Belgrade, Maine</i></p> <p>Secretary ROBERT WHITE PULLEN, PH.D. <i>Waterville, Maine</i></p> <p>Treasurer ARTHUR WILLIAM SEEPE, M.C.S. <i>Waterville, Maine</i></p>
BOARD OF TRUSTEES	
1970-1971	<p>(AL. 1972) ASA CHARLES ADAMS, M.D. <i>Orono, Maine</i></p> <p>(1974) ROBERT NEWTON ANTHONY, D.C.S., L.H.D. <i>Boston, Massachusetts</i></p> <p>(AL. 1973) CLIFFORD ALLAN BEAN, M.B.A. <i>Concord, Massachusetts</i></p> <p>JULIUS SEELYE BIXLER, PH.D., D.D., L.H.D., LL.D., D.C.L., LITT.D., SC.D.¹ <i>Jaffrey, New Hampshire</i></p> <p>(1975) NORMAN L. CAHNERS, A.B., M.A., LL.D. <i>Boston, Massachusetts</i></p> <p>(1976) ALIDA MILLIKEN CAMP (MRS.), B.A., M.A. <i>East Bluehill, Maine</i></p> <p>(1974) CLARK HOPKINS CARTER, B.A., M.A. <i>Mount Vernon, New York</i></p> <p>(1974) HARRISON CHANDLER, B.A., M.A. <i>Los Angeles, California</i></p> <p>(1975) H. KING CUMMINGS, B.S., M.A. <i>Guilford, Maine</i></p> <p>(1972) JEAN GANNETT HAWLEY (MRS.), HH.D., L.H.D. <i>Portland, Maine</i></p> <p>(AL. 1972) THEODORE ROOSEVELT HODGKINS, B.S., M.A. <i>Wilton, Maine</i></p> <p>ELLERTON MARCEL JETTÉ, LL.D. <i>Boston, Massachusetts</i></p> <p>(AL. 1971) CLAYTON WEARE JOHNSON, M.A. <i>Bloomfield, Connecticut</i></p> <p>(1971) GORDON BURR JONES, M.B.A. <i>Needham, Massachusetts</i></p> <p>(AL. 1971) ROBERT ALLEN MARDEN, LL.B. <i>Waterville, Maine</i></p> <p>(AL. 1972) RITA ANN McCABE, B.A., M.A. <i>Bronxville, New York</i></p> <p>ALBERT CARLTON PALMER, B.A., M.A. <i>Stoneham, Massachusetts</i></p> <p>(1974) WILSON COLLINS PIPER, LL.B. <i>Boston, Massachusetts</i></p> <p>(1972) FREDERICK ALBERT POTTLE, PH.D., LITT.D. <i>New Haven, Connecticut</i></p> <p>(1971) DWIGHT EMERSON SARGENT, M.A. <i>Cambridge, Massachusetts</i></p> <p>(1971) JOSEPH COBURN SMITH, M.A., L.H.D. <i>South Portland, Maine</i></p> <p>REGINALD HOUGHTON STURTEVANT, B.A., LL.D.¹ <i>Livermore Falls, Maine</i></p> <p>(1976) W. CLARKE SWANSON, JR., B.A., M.A. <i>Fort Myers Beach, Florida</i></p> <p>(AL. 1973) ARTHUR TOTTEN THOMPSON, M.B.A., SC.D. <i>Boston, Massachusetts</i></p> <p>(AL. 1973) SIGRID E. TOMPKINS, LL.B. <i>Portland, Maine</i></p>

¹Honorary life member

	(AL. 1971) JEAN MARGARET WATSON, M.A.	<i>New London, Connecticut</i>
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	(1973) ESTHER ZISKIND WELTMAN (MRS.), M.ED., LL.D.	<i>Cambridge, Massachusetts</i>
	(1971) ROBERT FREDERIC WOOLWORTH, M.A.	<i>Winthrop, Maine</i>
FACULTY	(1972) EVANS BURTON REID, PH.D.	<i>Waterville, Maine</i>
REPRESENTATIVES	(1973) GUSTAVE HERMAN TODRANK, PH.D.	<i>Waterville, Maine</i>
STUDENT	(1971) CHARLES J. HOGAN '73	<i>Metuchen, New Jersey</i>
REPRESENTATIVES	(1971) STEPHEN R. ORLOV '71	<i>Hull, Massachusetts</i>

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Visiting Lecturer in the Department of Psychology‡

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*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

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1970-1971

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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 Macheimer, 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 Combellack, 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, LeVein, 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).

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:

Professors Geib, Hogendorn, Mayo, P. Perez, Reid, L. Zukowski, W. Zukowski.

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:

Co-Chairmen: Professor Paul Perez and Mr. Charles Hogan, student. Professors Hogendorn, Koons, Kenney (secretary).

Students: Messrs. Madden, McGill, Philson.

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

STUDENT GOVERNMENT

STUDENT REPRESENTATIVES TO Messrs. Blake, Eisen, Gordon, Hogan, Meserve, Orlov, Philson.

FACULTY MEETINGS

Administrative Staff 1970-1971

PRESIDENT

Robert Edward Lee Strider, II, PH.D., LL.D.,
HH.D., L.H.D., D.S. in B.A., D.ED.

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.

TREASURER

Arthur William Seepe, M.C.S.

ASSISTANT TO THE TREASURER

Robert E. Wilson, B.S. in B.A., C.P.A.

ADMINISTRATIVE ASSISTANT TO THE PRESIDENT

Robert Hurd Kany, PH.D.

ASSISTANT TO THE PRESIDENT

Richard Nye Dyer, B.A.

ACTING DEAN OF STUDENTS

Albert Anthony Mavrinac, PH.D.

ASSOCIATE DEANS OF STUDENTS

Doris L. Downing, B.A.
Earl H. Smith, B.A.

DEAN OF ADMISSIONS

Harry R. Carroll, M.A.

ASSISTANTS TO THE DEAN OF ADMISSIONS

Robert S. Aisner, B.A.
Lynn M. Kirkby, B.A.

REGISTRAR

George Leidigh Coleman, II, M.A.

ASSISTANT TO THE REGISTRAR

Claude D. Hubert

DIRECTOR OF PLACEMENT AND CAREER PLANNING

Earle Alton McKeen, M.ED.

**DIRECTOR OF FINANCIAL AID; COORDINATOR OF
GOVERNMENT SUPPORTED PROGRAMS**

Charles F. Hickox, Jr., PH.D.

COORDINATOR OF STUDENT ADVISING

Jonas O. Rosenthal, M.A.

DIRECTOR OF SUMMER AND SPECIAL PROGRAMS

P. David Walker, Jr., M.B.A.

ALUMNI SECRETARY

Sidney W. Farr, M.A.

CHAPLAIN

Roland W. Thorwaldsen, M.A., M.DIV.

DIRECTOR OF PUBLICATIONS

Donald E. Sanborn, Jr., B.A.

COLLEGE EDITOR

David C. Langzettel, B.A.

LIBRARIAN

Kenneth Pond Blake, Jr., M.A., M.S.

CURATOR OF RARE BOOKS AND MANUSCRIPTS

Richard Cary, PH.D.

ASSOCIATE LIBRARIAN

Florence Elizabeth Libbey, M.S.

READERS' SERVICES LIBRARIAN

Bruce Drace Bonta, M.L.S.

TECHNICAL SERVICES LIBRARIAN

Ward Eric Shaw, M.S.

CATALOG/REFERENCE LIBRARIAN

Byron Van Whitney, M.S.

CATALOGER OF SPECIAL COLLECTIONS

William Walter Hill, M.S.

DIRECTOR OF ART MUSEUM

Hugh J. Gourley, III, B.A.

DIRECTOR OF FINANCIAL PLANNING

Ober C. Vaughan

DIRECTOR OF ANNUAL GIVING PROGRAM

Frank Platten Stephenson, B.A.

DIRECTOR OF THE COLLEGE CALENDAR

Elizabeth S. Kiralis (Mrs.), B.S.

DIRECTOR OF STUDENT ACTIVITIES

Edward J. Burke, Jr., M.S.T.

NEWS ASSISTANT

Irving B. Faunce, B.A.

ACTING SUPERINTENDENT OF BUILDINGS AND
GROUNDS

Ansel A. Grindall

DIRECTOR OF HEALTH SERVICES

Carl E. Nelson, M.E.D.

DIRECTOR OF FOOD SERVICE

Gary Wilson

DIRECTRESS OF RUNNALS UNION

Betty Hill (Mrs.)

HISTORIAN

Ernest Cummings Marriner, L.H.D.

ACTING MANAGER OF THE BOOKSTORE

Richard H. Leavitt, B.A.

MANAGER OF SUPPLY AND MIMEOGRAPH SERVICE

Pauline Lawton O'Connell (Mrs.)

AIR FORCE ROTC

Lt. Col. Don G. Harris, B.S.

Captain Stanley Eugene Hilinski, B.A.

Captain Richard J. Korejwo, B.S.

Technical Sergeant Donald Joseph Rich

Staff Sergeant Norman E. Wilson

MARSHALS

Earl A. Junghans, M.S.

College Marshal

Clifford J. Berschneider, M.A.

Assistant College Marshal

Harold A. Jacobson, ED.D.

Faculty Marshal

Robert W. Pullen, PH.D.

Platform Marshal

ASSISTANTS AND SECRETARIES

Valeri Adams

Clerical Assistant, Library

Glenda Jay Ambrose

Secretary to the Director of Food Service

Elva Fernald Armstrong (Mrs.)

Secretary, Office of the President

Fabienne Berard (Mrs.)

Secretary, English

Linda Brown (Mrs.)

Secretary, Publications Office

Barbara Caminiti

Assistant Secretary, Admissions Office

Marilyn E. Canavan (Mrs.)

Secretary, Dean of Students' Office

Priscilla Carter

Secretary, Development Council

Freda Marie Charles (Mrs.)

Office Supervisor, Development Council

Eleanor Clark (Mrs.)

Secretary, Center for Coordinated Studies

Margaret V. Clark (Mrs.)

Secretary, Buildings and Grounds

Miriam Covell (Mrs.)

Secretary, Treasurer's Office

Valerie Craig

Secretary, Assistant to the President

Alice M. Cryan (Mrs.)

Secretary to the Curator, Library

Nancy Davison (Mrs.)

Secretary, Infirmary

Jeannine Denis (Mrs.), B.S.

Catalog Assistant, Library

Francis E. Diggs

Catalog Assistant, Library

- Irvine Sanders Doe (Mrs.)
Information and Switchboard
- Virginia W. Gallant (Mrs.)
Secretary to the Director of Placement and Career Planning
- Doris F. Gardner (Mrs.)
Secretary, Art Department
- Jeanne Hammond (Mrs.), B.A.
Secretary, Registrar's Office
- Charlotte Hinckley
Secretary, Dean of Students' Office
- Barbara E. Horner (Mrs.)
Special Collections Assistant, Library
- Mildred A. Keller (Mrs.), B.A.
Secretary to the President
- Frances King (Mrs.)
Secretary, Natural Sciences
- Gertrude King (Mrs.)
Secretary, Student Activities Office
- Trudy Kurland
Secretary, History and Government
- Joanne LaBombard (Mrs.)
Secretary, Aerospace Studies
- Mabel Lancaster
Addressograph
- Eisa Lester (Mrs.)
Secretary, Women's Physical Education
- Claire Paron (Mrs.)
Cashier, Treasurer's Office
- Malvina Libby (Mrs.)
Information and Switchboard
- Hazel Longley (Mrs.)
Secretary, Development Council
- Dorothea E. Marchetti
Circulation Assistant, Library
- Dorothy P. McKenney (Mrs.)
Secretary, Admissions Office
- Glenna M. Michaud (Mrs.)
Secretary, Physical Education
- Theresa Laura Morrisseau (Mrs.)
Secretary, Lovejoy Faculty
- Carolyn M. Nelson (Mrs.)
Secretary, News Bureau
- S. Carleen Nelson (Mrs.)
Secretary to the Dean of Admissions
- Barbara Nowland (Mrs.)
Secretary, Modern Languages
- Pauline Cunningham Otis (Mrs.)
Secretary, Physical Education
- Susan L. Peckham
Secretary, Office of the Dean of Students
- Collette P. Pelkey
Assistant Secretary, Admissions Office
- Peter Pennypacker
Design Assistant, Publications Office
- Helen Picard (Mrs.)
Clerk, Treasurer's Office
- Alice E. Poirier (Mrs.)
Secretary to the Dean of Faculty
- Constance Burke Pomerleau (Mrs.)
Secretary to Director of Summer and Special Programs
- Theresa Pomerleau (Mrs.)
Secretary to the Registrar
- Lucille McIntyre Rancourt (Mrs.)
Payroll Clerk
- Madeline B. Reid (Mrs.)
Secretary to the Treasurer
- Elizabeth A. Reilly
Secretary, Chaplain's Office
- Annette Reynolds (Mrs.)
Clerk, Bookstore
- Earla B. Robertson (Mrs.)
Secretary to the Librarian
- Mary C. Roy (Mrs.)
Secretary, Alumni Office
- Ellen F. St. Peter (Mrs.)
Clerk, Treasurer's Office
- Hilda F. Seeley (Mrs.)
Secretary, Financial Aid Office
- Virginia A. Shaw
Secretary, Averill Faculty

Norma J. Shoen (Mrs.), B.A.
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
DEPARTMENT HEADS

J. Norman Poulin
Sanitation Foreman

Robie F. Bickmore
Heating Foreman

Fernand J. Michaud
Outside Foreman

Roy Brackett
Electrical Foreman

MEDICAL STAFF

Clarence E. Dore, M.D.
College Physician

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

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

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

Philip Swett
Assistant Director of Health Services

Priscilla Sargent, R.N.
Head Nurse in Residence

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

Enrollment by States and Countries

CLASSIFIED ACCORDING TO GEOGRAPHICAL
LOCATIONS OF STUDENTS' HOMES, 1970-1971

	<i>Total</i>	<i>Men</i>	<i>Women</i>		<i>Total</i>	<i>Men</i>	<i>Women</i>
ALL AREAS	<i>Grand Total</i> 1534	837	697	Tennessee	2	1	1
NEW ENGLAND				Texas	3	2	1
Connecticut	153	81	72	Virginia	36	14	22
Maine	239	131	108	Washington	6	5	1
Massachusetts	498	321	177	West Virginia	3	1	2
New Hampshire	55	19	36	Wisconsin	3	1	2
Rhode Island	41	21	20	Wyoming	1	1	0
Vermont	14	6	8		<hr/>	<hr/>	<hr/>
	1000	579	421		493	234	259
OUTSIDE NEW ENGLAND				FOREIGN COUNTRIES			
Alabama	2	1	1	Australia	1	0	1
Arizona	1	0	1	Brazil	2	2	0
California	11	8	3	Canada	9	7	2
Colorado	2	2	0	England	4	1	3**
Delaware	5	1	4	Ethiopia	2	2	0
District of Columbia	14	8	6	France	4	2**	2***
Florida	9	5	4	Greece	1	1	0
Georgia	1	1	0	Hong Kong	2	1	1
Hawaii	2	1	1	Iceland	1	1	0
Illinois	18	8	10	Iran	1	0	1
Indiana	2	0	2	Japan	1	1	0
Iowa	1	0	1	Jordan	1	1	0
Kansas	1	0	1	Kenya	1	1	0
Kentucky	3	0	3	Lebanon	1	0	1*
Maryland	26	8	18	Nigeria	1	1	0
Michigan	6	4	2	Saudi Arabia	1	0	1*
Minnesota	9	6	3	Thailand	1	0	1*
Missouri	5	0	5	Tibet	1	1	0
Montana	1	1	0	Turkey	3	2	1
New Jersey	96	49	47	Venezuela	2	0	2**
New York	148	73	75	West Indies	1	0	1*
North Carolina	6	4	2		<hr/>	<hr/>	<hr/>
Ohio	18	9	9		41	24	17
Oklahoma	1	0	1				
Oregon	1	0	1				
Pennsylvania	50	20	30				

* 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.*

Awarded in 1970 to STEPHEN ROBERT ORLOV '71.

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.

Awarded in 1970 to CATHERINE ANN DELANO '71.

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.

Awarded in 1970 to RONALD WILLIAM LUPTON '71.

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."

Awarded in 1970 to RONALD WILLIAM LUPTON '71.

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 PARNES '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.

DRAMATICS *Andrew Blodgett Award.* For excellence in dramatics, presented by Powder and Wig Society in memory of Andrew Blodgett, 1962. Awarded in 1970 to NANCY PRISCILLA ANTHONY '70.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.

Awarded in the fall of 1970 to:

1st Prize: CHRISTOPHER BRIAN SAMPLE '72.

2nd Prize: GARY PHILIP ARSENAULT '73.

3rd Prize: STEVEN PAUL RAPPAPORT '72.

Hamlin Speaking Prizes.

Awarded in the fall of 1969 to:

1st Prize: DOUGLAS W. GORMAN '73.

Awarded in the fall of 1970 to:

1st Prize: MARGARET NENA BARNES '74.

2nd Prize: ELIZABETH JANE CORYDON '74.

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 FALSANI '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 FALSANI '70; JOHN MICHAEL FOCHS '71.

NATURAL SCIENCES *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.
Awarded in 1970 to MICHAEL H. SALVETTI '71.
Paul F. "Ginger" Fraser Award for a non-letterman in football.
Awarded in 1969 to STEPHEN J. MANSFIELD '71.
Free Throw Award in Basketball.
Awarded in 1970 to DOUGLAS E. REINHARDT '71.
Robert LaFleur Memorial Basketball Award.
Awarded in 1970 to PETER C. BOGLE '70.
Gilbert F. "Mike" Loeb's 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.
Awarded in 1970 to MICHAEL H. SALVETTI '71.
Theodore N. Shiro Basketball Award.
Awarded in 1970 to PETER C. BOGLE '70.

Herbert E. Wadsworth Football Award.

Awarded in 1969 to RONALD W. LUPTON '71.

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.*
 William Paine Aldrich Andersen, *Lincoln, Mass.*
 Deborah Anderson, *Wellesley Hills, Mass.*
 Deborah Williams Anderson, *Laredo, Tex.*
 Judith Gay Anderson, *Palo Alto, Calif.*
 Gregory N. Andrews, *Topsfield, Mass.*
 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.*
 Susan Leslie Baird, *Weymouth, Mass.*
 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.*
 Donald Thaxter Bates, Jr., *Harwich, Mass.*
 David Sweetser Baxter, *Newington, Conn.*
 Christopher John Beerits, *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, *Somerseset, Mass.*
 Clare Trowbridge Bonelli, *Old Lyme, Conn.*
 Debora Lynn Booth, *Lisbon, N. H.*
 Elizabeth Ann Borchers, *Swansey 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.*
 Gregory Robert Carbone, *Arlington, Va.*
 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 Cicutelli, *Revere, Mass.*
 John Andrew Cioffi, *Danbury, N. H.*
 Judith Ann Clark, *Old Saybrook, Conn.*
 Lee Allen Clarke, *Augusta, Me.*
 Steven David Cline, *Newton, Mass.*
 Alan 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.*
 Robin Leueen 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 Cuatto, *Torrington, Conn.*
 Frank Milan Danieli, Jr., *Norwood, Mass.*
 Susan Margaret Dann, *Lynnfield, Mass.*
 Roman William Dashawetz, *West Roxbury, Mass.*
 Richmond Grey Davis, *Lexington, Mass.*
 Carol Ann Dennison, *Falls Church, Va.*
 Peter Albert Devine, *East Dummerston, Vt.*
 Jacquelyn Towle Dingwall, *Weymouth, Mass.*
 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.*

- David Barry Dougan, *Vernon, Conn.*
 Barbara Ann Dumont, *Skowhegan, Me.*
 David William Durkin, *Danbury, Conn.*
 Pamela Raye Dyer, *Warwick, R. I.*
 Gilbert Linwood Earle, *Falmouth, Me.*
 Walter Henry Effron, *Poughkeepsie, N. Y.*
 Peggy Hulda Elkus, *Pittsburgh, Pa.*
 Sharon Mary Eschenbeck, *Highstown, N. J.*
 Robert Carl Falsani, *Berlin, N. H.*
 Harold Steven Faust, *Lawrence, Mass.*
 Deborah Ann Fitton, *Princeton, Mass.*
 Linda Marsh Foss, *West Boylston, Mass.*
 Peter Foss, *Wellesley Hills, Mass.*
 Beverly Edith Foster, *Mahwah, N. J.*
 Donna Haines Fowler, *Montpelier, Vt.*
 Mark Steven Fraser, *Nashua, N. H.*
 Judith Miriam Freedman, *Andover, Mass.*
 Margaret Augusta Freeman, *Bath, Me.*
 Robert Edward French, *Weston, Mass.*
 Margaret Adair Frizzell, *Weston, Mass.*
 Richard Warren Gallup, *Cambridge, Mass.*
 Robert Randall Gassett, *Halifax, Mass.*
 Patricia Gerrior, *North Weymouth, Mass.*
 David Malcolm Gilbert, *Sangerville, Me.*
 Peter Gordon Gilfoy, *Lincoln, Mass.*
 Lorraine Ann Gill, *Lynn, Mass.*
 Andrew Bruce Gilson, *Newton Centre, Mass.*
 Peter Samuel Glass, *Brookline, Mass.*
 Mary Ann Golden, *Westport, Conn.*
 Marlene Beth Goldman, *Sharon, Mass.*
 Roger Harvey Gould, *Boston, Mass.*
 Diana Jean Graves, *West Hartford, Conn.*
 Leonard Griswold Guitar, *Old Lyme, Conn.*
 Linda Jean Gulbrandsen, *Wellesley Hills, Mass.*
 Ilan Hadani, *Tel-Aviv, Israel*
 Elayne June Haggan, *Phillips, Me.*
 Sandra Liisa Haimila, *Fitchburg, Mass.*
 Terry Ann Halbert, *Flourtown, Pa.*
 Robert William Hall, *Waterbury, Conn.*
 Barbara I. Hamaluk, *Newington, Conn.*
 Brenda Ronnie Handelman, *West Peabody, Mass.*
 Arthur Frederick Hannigan, Jr., *Melrose, Mass.*
 Eric Mason Hanson, *Weston, Mass.*
 William Pike Hardy, *Wilton, Me.*
 Alison Jane Harvey, *Holbrook, Mass.*
 Deborah Hawks, *Concord, Mass.*
 Andrew Masahiko Hayashi, *Toronto, Ont., Canada*
- Brenda Louise Hess, *Bangor, Me.*
 Kathryn Carolyn Hill, *Pittsfield, Mass.*
 Richard Guild Hinman, *Andover, Mass.*
 Gary Leo Hobbs, *Lewiston, Me.*
 Sandra Jean Holler, *Torrington, Conn.*
 Inness Humphreys, *Southampton, N. Y.*
 Richard Irving Hunt, Jr., *Fairfield, Me.*
 Barrett Alan Hurwitz, *New Bedford, Mass.*
 James Richard C. Irvine, *Cobourg, Ont., Canada*
 Craig Bernhard Johnson, *Branford, Conn.*
 Robert Bruce Johnston, *Andover, Mass.*
 Nancy Jorczak, *Washington Crossing, Pa.*
 Kenneth Leslie Jordan, *Ellsworth, Me.*
 Douglas Bruce Joseph, *Walpole, Mass.*
 Susan Kalendarian, *Bayville, N. Y.*
 Nathan Elliott Kamensky, *Nashua, N. H.*
 Joan Frances Katz, *Brockton, Mass.*
 Robert Mark Kaufman, *Danbury, Conn.*
 Judith Ann Kelly, *Nashua, N. H.*
 Stephen Nord Kitchen, *Warwick, R. I.*
 Karen Virginia Knapp, *Newtown, Conn.*
 Martin Thomas Kolonel, *Stephenville, Nfld.,
 Canada*
 Constance M. Kratz, *Franklin Lakes, N. J.*
 Benjamin W. Kravitz, *Sharon, Mass.*
 Richard Joseph Lane, *Marlboro, Mass.*
 Mary Bernadette Langevin, *North Haven, Conn.*
 James Christopher Lee, *Hartford, Conn.*
 Rodd Hartley Leeds, *Hewlett, N. Y.*
 Dudley Allen Levick, III, *Cincinnati, Ohio*
 Carol Lewis, *Rockport, Mass.*
 Barbara McClain Livingston, *Summit, N. J.*
 John Curtis Lombard, *Kennebunkport, Me.*
 Charles A. Lord, Jr., *Lafayette Hill, Pa.*
 Linda Anne Loring, *Framingham, Mass.*
 Jeffrey Michael Lovitz, *Sharon, Mass.*
 Peter Tappin Lowell, *Bridgton, Me.*
 Martha Craven Luce, *Wayland, Mass.*
 Paul Edmund Luce, *Mexico, Me.*
 Nadine Joyce MacDonald, *Miami, Fla.*
 Peter Warren Mackinlay, *Attleboro, Mass.*
 John Douglas MacLeod, *Yarmouth, Me.*
 Russell Boynton MacPherson, *Hingham, Mass.*
 Anne Elizabeth Madden, *Bryn Mawr, Pa.*
 Sebsibe Man Mamo, *Addis Abeba, Ethiopia*
 Laurel Ellen Maney, *Beverly, Mass.*
 Karen Louise Johnson Mank, *Portland, Me.*

- David Alan Manning, *West Hartford, Conn.*
 James Lawrence Martin, *East Providence, R. I.*
 Donna Swain Mason, *Worcester, Mass.*
 Susan Maxfield, *Portland, Me.*
 Martha Carson McCall, *Auburn, N. Y.*
 John Kennedy McDonald, *Marshfield, Mass.*
 Tanya Lee McDowell, *Philadelphia, Pa.*
 Ann Lee McEwen, *Springfield, Mass.*
 Michael Ray McKinney, *Cloquet, Minn.*
 Judith Ann McLeish, *Tewksbury, Mass.*
 David Bruce McNamee, *Holbrook, Mass.*
 Stephen Paul McNulty, *Wakefield, Mass.*
 Mary Lee Merrill Metcalf, *Greensboro, Vt.*
 Elinor Gail Bartel Miller, *Brooklyn, N. Y.*
 Kathryn I. Miller, *Lansdale, Pa.*
 John Carl Moberger, *Melrose, Mass.*
 Cheryl Ann Moriarty, *Weston, Mass.*
 Ann Louise Moscow, *Harrison, N. Y.*
 Richard Diuguid Moss, *Farmville, Va.*
 Thomas Woodbury Munson, *Wellesley, Mass.*
 Roberta Lynne Murrell, *Simsbury, Conn.*
 Christine Nahabedian, *Palmer, Mass.*
 Sharon Ellen Niles, *Concord, Mass.*
 Erica Anne Nissen, *Damariscotta, Me.*
 Nicolette Mildred Pach, *Dedham, Mass.*
 Earl Robert Palmer, Jr., *Nashua, N. H.*
 Hazel Anne Parker, *Bogota, Columbia*
 Jeffrey Alan Parness, *Providence, R. I.*
 James Harold Patch, *Saugus, Mass.*
 Joseph Edward Peters, *Tarrytown, N. Y.*
 Anne Virginia Peterson, *Wilbraham, Mass.*
 Sally Suzanne Peterson, *Tacoma, Wash.*
 Virginia Sheldon Pierce, *Leominster, Mass.*
 Charles Wilson Piper, *Wellesley, Mass.*
 Michael Poling, *Springfield, Mass.*
 Anne Caroline Pomroy, *Hancock, Me.*
 Catherine M. Pond, *Bristol, Conn.*
 Michele Ann Poplawski, *Lexington, Mass.*
 Robin Crane Potter, *Manchester, Conn.*
 Janet Alison Rathbun, *Pittsburgh, Pa.*
 Norma Fay Rivero, *Caracas, Venezuela*
 Janet Holloway Rosenbaum, *New York, N. Y.*
 Stuart Rothenberg, *New York, N. Y.*
 Paul Charles Roud, *Newton, Mass.*
 Jean Macalister Royall, *Tenaflly, N. J.*
 Alice Mary Ryen, *Locust Valley, N. Y.*
 Elizabeth Susan Ryerson, *North Grafton, Mass.*
- Robert Henry Saglio, *Glastonbury, Conn.*
 Dennis Raymond Salmi, *Maynard, Mass.*
 Steven Earl Saporito, *Lynnfield, Mass.*
 Russell Yearian Savage, *Georgetown, Me.*
 Jane Ellen Sawyer, *Augusta, Me.*
 Leslie Anderson Scherer, *Meriden, Conn.*
 Stephen Osborne Schmickrath, *West Hartford, Conn.*
 Laura Rose Schmidt, *Shoreham, N. Y.*
 David Holbrook Schumacher, *Augusta, Me.*
 Roslyn Dee Schwarz, *Philadelphia, Pa.*
 Leslie Ann Seaman, *Havertown, Pa.*
 Jordan Paul Selden, *Brookline, Mass.*
 Michael Self, *Peterboro, Ont., Canada*
 Howard Sinclair Sharples, Jr., *Cranston, R. I.*
 David Michael Shea, *Fitchburg, Mass.*
 Christine Marie Sherman, *Holden, Mass.*
 Earle Grey Shettleworth, Jr., *Portland, Me.*
 Cathy Lynn Pagano Shippee, *Manhasset, N. Y.*
 Jeffrey Ned Silverstein, *Passaic, N. J.*
 Barbara Joan Skeats, *York, Pa.*
 Deborah Jane Smiley, *Flushing, N. Y.*
 Douglas Guy Smith, *North Conway, N. H.*
 Shea Clark Smith, *St. Louis, Mo.*
 Todd Hamilton Smith, *Cambridge, Mass.*
 Stephen Keith Snow, *Harborside, Me.*
 John Sobel, *Rockville Centre, N. Y.*
 Dana Jean Spallholz, *Portland, Me.*
 Richard Ian Spector, *Paterson, N. J.*
 Peter Beebe Spindler, *Dedham, Mass.*
 Andrej Thomas Starkis, *Millis, Mass.*
 Kenneth Alan Stead, *Rutledge, Pa.*
 Linda Steere, *Greenville, R. I.*
 Mary Margaret Stephens, *Grosse Pointe, Mich.*
 Jane Knapp Stinchfield, *Manchester, Me.*
 Lynne McKendry Stinchfield, *Oaklyn, N. J.*
 Aroline Fenno Stone, *Weston, Mass.*
 Robert Lewthwaite Stromberg, *Lynbrook, N. Y.*
 Laura Lee Struckhoff, *Concord, N. H.*
 Donna Claire Sundeen, *Honeoye, N. Y.*
 Margaret Joan Swanson, *Upton, Mass.*
 Francis Sylvia, *North Reading, Mass.*
 Paul Nute Tabor, *East Greenwich, R. I.*
 Sarah Ann Gruber Owen Tabor, *Storrs, Conn.*
 Joan Eileen Talbot, *Turner, Me.*
 Wallace William Tapia, *Harrington Park, N. J.*
 Jeanne Tarrant, *Cos Cob, Conn.*

Karen Lee Teravainen, *Scarborough, Me.*
 Deborah Lee Thurlow, *Sudbury, Mass.*
 Daniel Stephen Timmons, *Sherbrooke, Que.,
 Canada*

Nancy L. Tindall, *Robbinsville, N. J.*
 Elaine Nina Treworgy, *Calais, Me.*
 Maureen Ann Vaughan, *Peabody, Mass.*
 Sarah Eileen Vose, *Scarborough, Me.*
 Andrea Vujan, *Pittsburgh, Pa.*
 Cynthia Flora Wallace, *Baltimore, Md.*
 William Brooks Ware, *Stow, Mass.*
 Pamela Carol Warner, *Lincoln, Mass.*
 Shipp Holden Webb, *Sewanee, Tenn.*
 Donna Lynn Webber, *Oklahoma City, Okla.*
 Jonathan Rood Weems, *Lexington, Mass.*
 David Noah Weitzman, *Linden, N. J.*
 Edward Pierce Wells, II, *Reading, Mass.*
 Katharine Travis Wells, *Westwood, Mass.*
 Martha Ethan Wells, *Chatham, N. J.*
 Thomas Avery Whidden, II, *Westport, Conn.*
 Arthur Michael White, *Sharon, Mass.*
 Jerold Jay Wichtel, *East Orange, N. J.*
 Ronna Margaret Winer, *Wilmington, Del.*
 Chris Thomas Woessner, *Flushing, N. Y.*
 Robert Gene Fu Woo, *Amherst, Mass.*
 Charles Henry Wood, Jr., *Duxbury, Mass.*
 Jack Denfeld Wood, *Needham, Mass.*
 Judith Ann Wood, *Gardner, Mass.*
 Gary Earl Woodcock, *Rockland, Me.*
 Mark Stuart Zaccaria, *Dedham, Mass.*
 Christine Jayne Zlotnick, *Webster, Mass.*

Degrees granted in October as of the Class of 1969

Mary Ruth Ehrke, *Arlington Heights, Ill.*
 Susan Owens Johnston, *Newburyport, Mass.*
 Delbert Donald Matheson, Jr., *Waterville, Me.*
 Raymond Mott, *Glastonbury, Conn.*
 Dwight Lowell Parsons, II, *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*

As of the Class of 1969

Jean Peterson Balsley, *Middle Haddam, Conn.*
 George Linwood Cross, Jr., *South Portland, Me.*

James Meade Klingensmith, *Pittsburgh, Pa.*
 Elizabeth Pond, *Nahant, Mass.*
 Sandra High Walters, *Nashville, Tenn.*
 Peter Yakawonis, *Greene, Me.*

As of the Class of 1966

Janice Holt Arsan, *Syracuse, N. Y.*

As of the Class of 1949

Anne Whitehouse Miller, *Cape Porpoise, Me.*

As of the Class of 1939

Marion Crawford Hutchinson, *Beaver, Pa.*

HONORS

Summa Cum Laude

Carol Lewis

Magna Cum Laude

Elizabeth Conant Brown
 Christine Marie Celata
 Adrienne Phyllis Creanza
 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

DISTINCTION IN THE MAJOR

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

History

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

Mathematics

Elizabeth Conant Brown
Mary Bernadette Langevin
Carol Lewis

Music

Margaret Adair Frizzell
Charles Wilson Piper

Philosophy

Robert Edward French
Andrej Thomas Starkis

Philosophy-Religion

Cathy Lynn Pagano Shippee

Physics

Christine Marie Celata

Psychology

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

PHI BETA KAPPA

Elected in Junior Year

Carol Lewis

Elected in Senior Year

Martha Elizabeth Belden
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 Ellen Maney
Martha Carson McCall
Judith Ann McLeish
Jeffrey Alan Parness
Leslie Ann Seaman
Leslie Cheryl Anderson Scherer
Maureen Ann Vaughan
Sarah Eileen Vose

MASTER OF SCIENCE IN TEACHING

Elizabeth E. Albert, *Aldan, Pa.*
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.*
 Emilie R. Gino, *Marina Del Rey, Calif.*
 Sister Kathleen Ann Gorres, *Bronx, N. Y.*
 Walter Ross Greenlaw, Jr., *Ashburnham, Mass.*
 Wilfred A. Laverdiere, *Skowhegan, Me.*
 Ernest Joseph Lehmann, *Verona American School, Italy*
 Marjorie B. Lubell, *Garden City, N. Y.*
 Frank Salvatore Margiotta, *East Northport, N. Y.*
 Walter Rutheny, *Wantagh, N. Y.*
 Thomas Allan Schaeffer, *Lehighton, Pa.*
 Gail Woods Smith, *Waterville, Me.*
 John M. Wortman, *Dexter, Me.*

HONORARY DEGREE RECIPIENTS

Jere Abbott
Doctor of Fine Arts

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 Yearian 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

JULIUS SEELYE BIXLER SCHOLARS

Class of 1970

Elizabeth Conant Brown
 Christine Marie Celata
 Barbara Irene Hamaluk
 Carol Lewis
 Leslie Ann Seaman

Class of 1971

Susan Catherine Cooper
 Roger Garry Cottingham
 Nancy Holm Gaston
 Judith Sue Kenoyer
 Audrey Gertrude Rushton
 Philip Saul Singer

Class of 1972

Wayne Henry McGuire
 Laureen Marie Ramonas
 George Roundy
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College Calendar 1971-1972

Friday, September 10	Freshman program begins
Monday, September 13	Upper-class registration
Tuesday, September 14	First classes
Saturday, October 9	Upperclassmen Parents Weekend (classes meet)
Saturday, October 30	Freshmen Parents Weekend (classes meet)
Saturday, November 6	Homecoming Day; all classes omitted
Friday, November 19, 5:00 P.M. to Monday, November 29, 8:00 A.M.	Thanksgiving recess
Saturday, December 11	Last classes of first semester
Monday, December 13 <i>through</i> Saturday, December 18	Semester examinations
Sunday, December 19	First semester makeup examinations
Monday, January 3 <i>through</i> Saturday, January 29	January Program
Monday, February 7	Registration for second semester
Tuesday, February 8	First classes of second semester
Friday, March 24, 10:00 A.M. to Monday, April 3, 8:00 A.M.	Spring recess
Friday, May 5 <i>through</i> Thursday, May 18	Reading period for 300 & 400 courses
Friday, May 19	Last classes for 100 & 200 courses
Monday, May 22 <i>through</i> Wednesday, May 31	Final examinations
Sunday, June 4	Commencement

The College reserves the right in its sole judgment to make changes of any nature in its program, calendar or academic schedule whenever it is deemed necessary or desirable, including changes in course content, the rescheduling of classes with or without extending the usual academic term, cancellation of scheduled classes and other academic activities, and requiring or affording alternatives for scheduled classes or other academic activities, in any such case giving such notice thereof as is reasonably practicable under the circumstances.

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